



Summit Anchor Co.

CELEBRATING

25

YEARS OF SAFETY
1996 - 2021

SAFETY FROM THE TOP DOWN

ROOF AND WALL
ANCHORS
M A N U A L

TABLE OF CONTENTS

- Overview** 2
 - Why Choose Summit Anchor Company Anchors? 3
- Summit's Anchor Co., Signature eyelet Forged - Quenched and Tempered** 4
 - What is Quenching & Tempering? 4
- Design and Layout** 6
 - Design Considerations 6
 - Minimum Loading Requirements for Anchors 7
 - Anchor Layout Requirements 7
- Anchor Model Guide** 14
 - SM-1 Bolt-On Anchors - 4-Holes 14
 - SM-81 Bolt-On Anchors - 2-Holes 15
 - SM-4 Weld On Anchors 15
 - SM-4 Weld On Anchors - 3 Way Intersection 16
 - SM-5 Concrete Embed Anchors 16
 - SM-6 Concrete - Embed Anchors 17
 - SM-85 Concrete - Embed Anchors 17
 - SM-1 Bolt-On to CIP-Cage 18
- Application Guide** 19
 - SM-1 Series Anchors - 4 Bolt Pattern 19
 - SM-1 Series Anchors - Custom 22
 - SM-4 Series - Weld-On Anchor 23
 - SM-5 Series - 4 Stud CIP Pattern Anchor 24
 - SM-6 Series - Single Pipe CIP Anchor 25
 - SM-81 Series - 2 Bolt Pattern Anchor 26
 - SM-85 Series - 2 Bolt Pattern Anchor 28
 - Various Attachment Details provided by Summit Anchor Co. 29



Overview

United States and Canadian national safety standards

require a building to provide certified anchorages capable of supporting the required loads before any suspended maintenance work is performed.

Roof and wall anchors are the simplest means of ensuring the safety of maintenance contractors who must work on the building's face and avoiding liability.

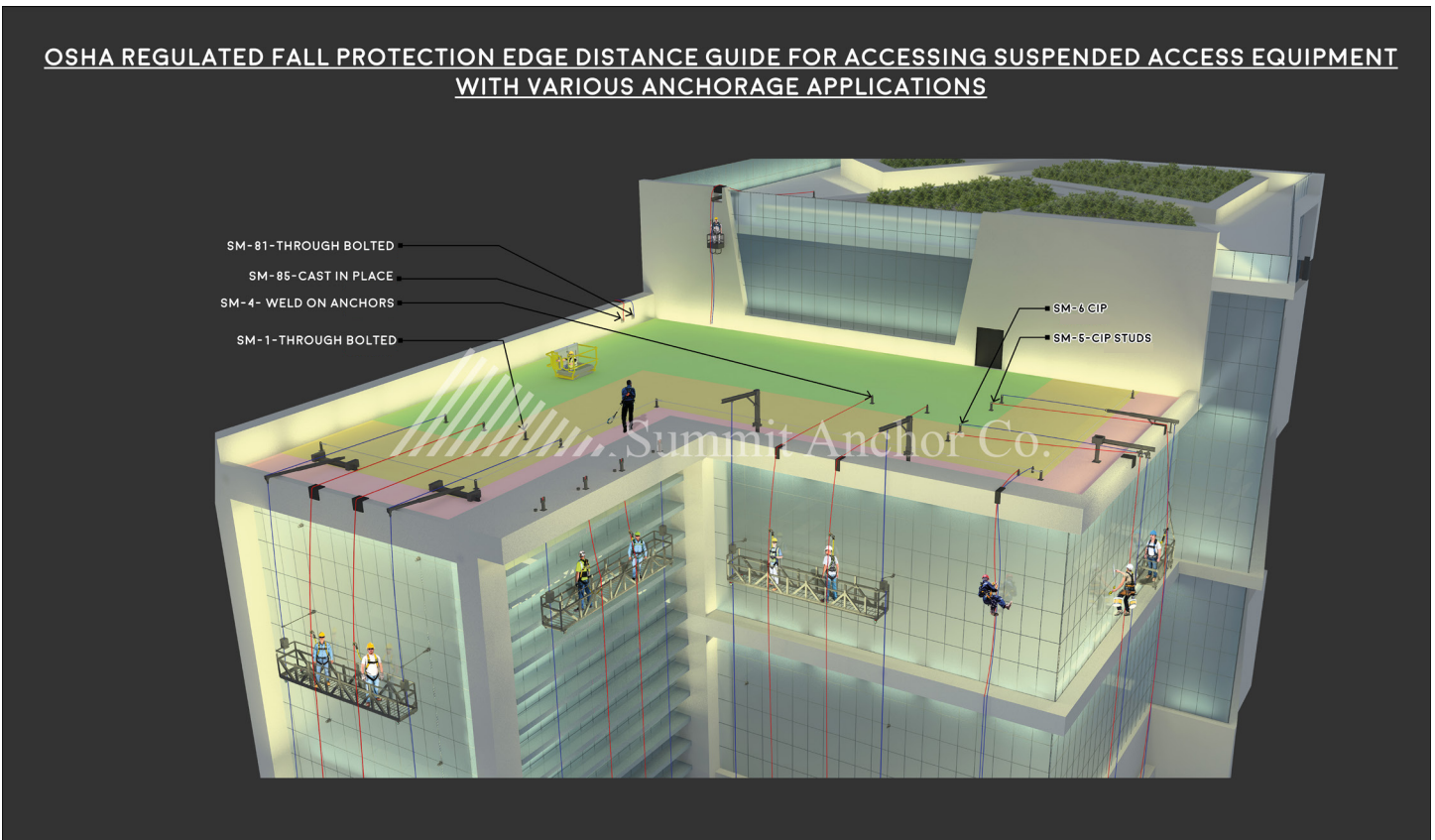
Roof and wall anchors alone may not satisfy all of the safety requirements of your structure, but when properly designed and installed, they can play a vital role in achieving compliance with OSHA requirements and ANSI/IWCA I-14.1 and CAN/CSA Z91 window cleaning safety standards.

Summit Anchor Company can provide anchorage that will facilitate whatever exterior maintenance might be required on your building. Some common examples of this type of maintenance are:

- Construction
- Window cleaning
- Waterproofing, caulking and facade cleaning
- Facade roof renovations, windows replacement
- Any interior or exterior maintenance where suspended work must be performed.

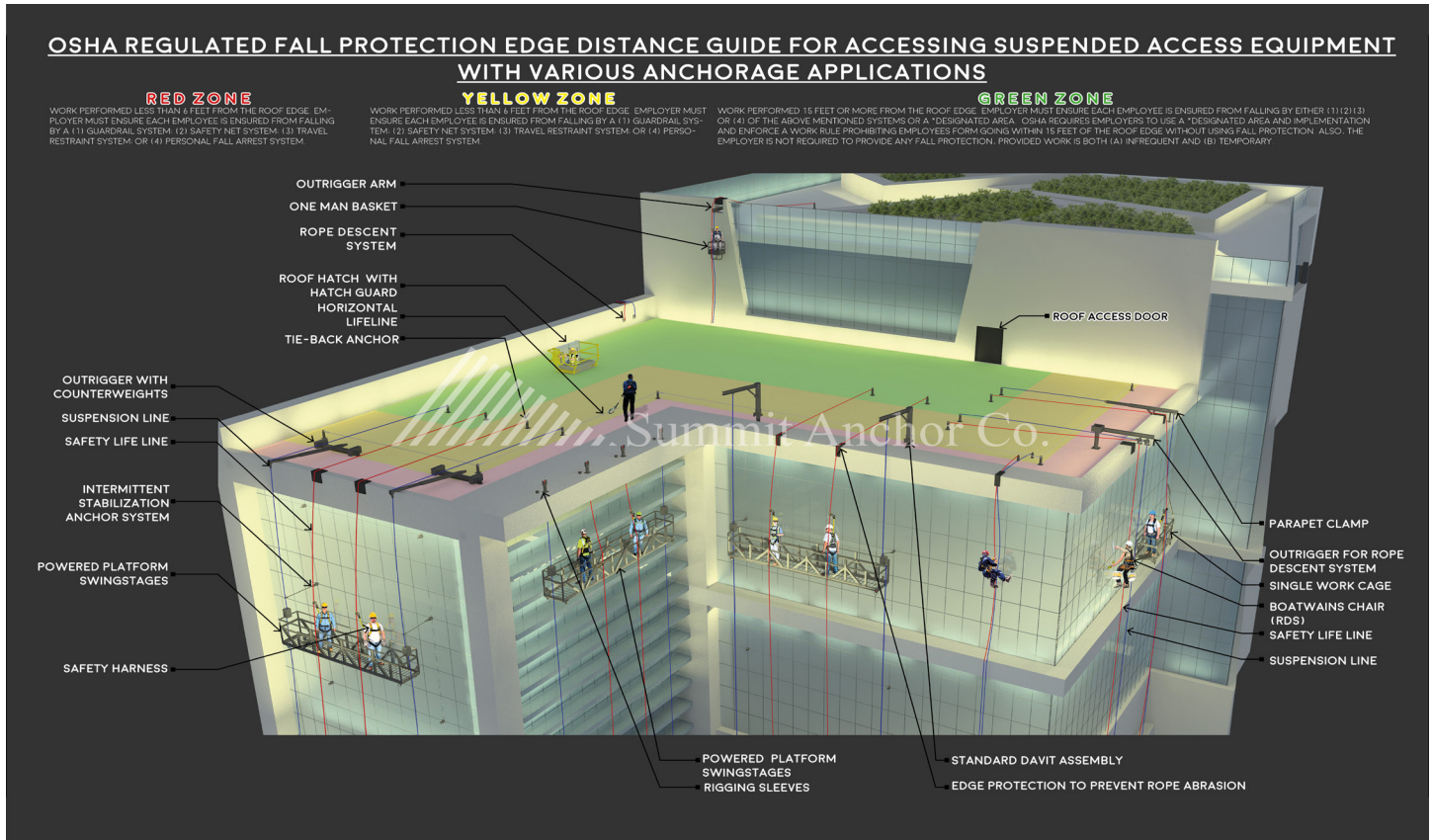
Regardless of what mechanical suspension device may be used by your exterior maintenance contractor, ANSI/IWCA I-14.1, section 5.8.22 states that for each suspended worker "anchorage of the lifeline should be independent of any portable support device." One anchorage supports the worker's equipment (i.e. boatswain chair), and another anchorage is used to tie off fall arrest equipment of safety line. OSHA 1910.66 appendix C, section 1 and OSHA 1926.451 (g) contain similar requirements.

Summit Anchor Company can assist you with the design of a suspended maintenance system that complies with OSHA and ANSI/IWCA I-14.1 requirements. By utilizing our expertly engineered anchors, and other equipment, as needed, with a well designed anchor layout roof plan, we provide the highest level of safety for suspended workers.



While anchorages are fundamental for safe access, building features often require additional equipment to be considered for safe access as follows:

1. Hatch Guards
2. Skylight and Smoke Hatch Fall Protection
3. Guardrails
4. Davits
5. Horizontal Cable System
6. Rigging Sleeves
7. Monorails
8. Gantries
9. Facade, Intermittent Stabilization Anchors (I. S. A.)
10. Temporary Rigging such as:
 - a) Counter Weighted Transportable Outriggers
 - b) Parapet Clamps



Why Choose Summit Anchor Company Anchors?

Our anchor eyes are drop forged, resulting in a stronger anchor than the common U-bar type of anchors. According to the Forging Industry Association: "Forgings have to be grain-oriented to shape for greater strength. Machined bar and plate may be susceptible to fatigue and stress corrosion because machining cuts material grain pattern. In most cases, forging yields a grain structure oriented to the part, resulting in optimum strength, ductility, and resistance to impact and fatigue." The additional quench-and tempering process of Summit's anchor eyes ensures consistent performance of each non-stainless steel anchor eye. The heat treatment and cooling process capitalizes on the properties of the steel to create anchor eyes with reduced risk of catastrophic failure due to brittleness and with the toughness to withstand the critical application involved with suspended maintenance.

Here are some other reasons...

- **Corrosion resistance** Our anchors are completely hot-dipped galvanized with stainless bolts. Hollow Structural Sections (HSS) may be filled with molded urethane insulation to reduce thermal transfer and condensation and are commonly used in green construction. This option is recommended by Summit Anchor Company but must be specified.
- **OSHA/ANSI compliance** Our anchors have been engineered and tested to comply with current OSHA regulations and IWCA I-14.1 safety standard for fall arrest and suspended maintenance.

Summit's Anchor Co., **Signature eyelet** Forged - Quenched and Tempered



What is Quenching & Tempering?

Quenching and tempering is a process that strengthens and hardens steel. The process involves heating and then rapidly cooling the part in water or oil. This process provides the performance needed for critical suspended access and fall protection applications.



SM-4 SERIES ANCHOR



SM-5 SERIES ANCHOR



SM-4 SERIES ANCHOR



SM-5 SERIES ANCHOR

Design and Layout

Experience and forethought are required to design a suspended maintenance system that is code-compliant and safe to utilize as well as to install. The ANSI/IWCA I-14.1 Window Cleaning Safety Standard requires that “anchor design and layout shall be performed by a qualified person experienced in such design” (Appendix C). Summit Anchor Co. has 25 years of experience designing code-compliant systems and providing layout drawings for use during installation, testing, and future maintenance work.

Design Considerations

1. Carefully examine all pertinent structural and architectural project drawings to find areas requiring suspended access:
 - Windows located above 20 ft.
 - Building facade requiring periodic maintenance (i.e. re-caulking and waterproofing)
 - Areas above 6 ft. from grade that workers will need to access
2. Identify unique building features that may require additional suspended maintenance products:
 - Overhangs
 - Atriums
 - Sloped roofs
 - Roofs above 300 ft.
 - Cornice conditions
 - Balconies
 - Skylights
 - Rotundas
 - Sloped walls
 - Curtain walls
 - Canopies, signage, and other projections
3. Determine if anchors will be used with rope descent systems, as tie backs for swing stage equipment, or both.
4. Identify unique building features that may require additional suspended maintenance products:
 - Roof slabs
 - Concrete curbs
 - Concrete beams
 - Concrete walls
 - Steel beams
5. Verify that structural features to which anchors and davits, etc. might be attached have the capacity to support the allowable test and ultimate loading requirements below. OSHA and ANSI/IWCA I-14.1 standards require that structural elements are capable of supporting loading requirements (see loading requirements below).
6. Verify the structural capacity of the parapet wall commensurate with the loading application (i.e. parapet clamps, outriggers, suspension lines, fall arrest lines, power cables, etc.) during suspended maintenance. If the parapet wall cannot support these loads, additional suspended maintenance products may be required to circumvent loading the parapet.
7. Verify that workers will be able to safely access anchor locations. The ANSI/IWCA I-14.1 requires fall protection when a maintenance worker must travel within 6 feet of an unprotected edge.

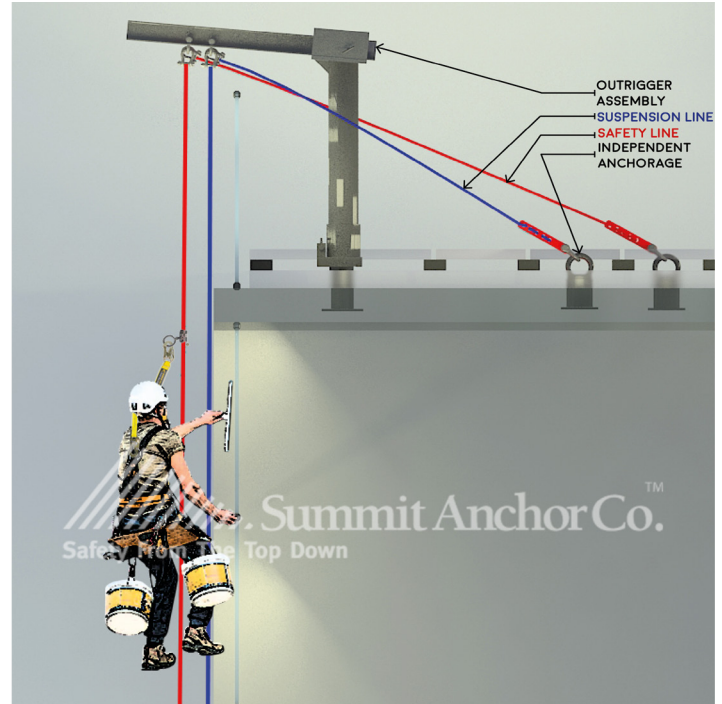


OSHA Subpart D Regulations prohibits rope descent systems for heights greater than 300 feet above grade, unless... See OSHA Subpart D for further information.

Minimum Loading Requirements for Anchors

- 5,000 lb. Ultimate load
- 2,500 lb. Test load
- 1,250 lb. Allowable load

NOTE: The structure to which anchorages are attached must also support the reactionary forces imposed by anchorages and davit, etc. (See [Specifications](#) for further detail.)

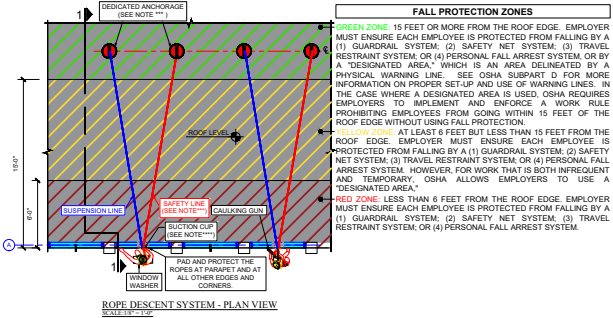


*If parapets are not capable of supporting loads imposed by workers ropes, the designer should consider other methods of suspended access to bypass direct loading the parapet such as davit arm.
[See Summit Anchor Co. Davit Manual.](#)*

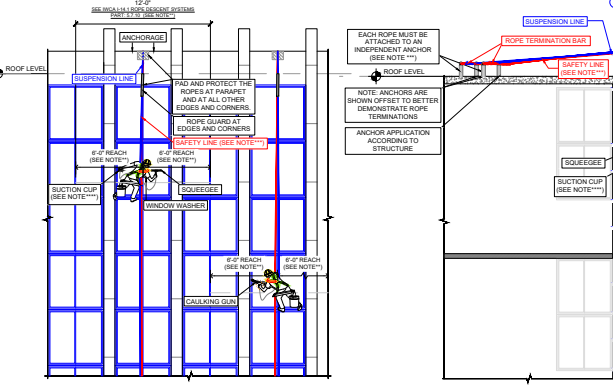
Anchor Layout Requirements

1. Anchors shall be identified on a plan of maintenance, typically posted on the inside of the roof door, so that workers can easily locate these anchorages on roofs.
2. Each worker shall be tied off to two independent anchorages – one for a fall arrest rope and one for a suspension rope.
3. Anchorages shall be placed in line with the work area requiring service, and there shall be no objects obstructing the path of the rope from the anchorage to the work area. Properly aligned anchors prevent unsafe lateral rope movement or displacement, which damages the rope proportionate to load.
4. Anchors should be placed to allow for at least two workers to make rope descending system descents in the same area of the building façade for both suspension line and fall arrest line.
5. Consideration should be given to providing sufficient anchorage for rescue workers to access window cleaners in the event that they are stranded on the façade of the building.
6. Anchors shall not be placed within 6 feet (1800 mm) of an unprotected roof edge unless fall protection is provided. In most cases anchors can and should be placed further than 6 feet (1800 mm) back from the edge to reduce risk of falling.
7. Outside corners of the roof are of particular concern. Anchors must be located to prevent the rope from being displaced on the parapet/guardrail. See diagram below:
8. The diagram below illustrates the standards governing a safe placement of roof anchors:

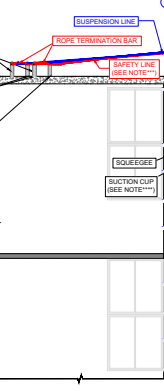
ROPE DESCENT SYSTEM LAYOUT REFERENCE DIAGRAM



ROPE DESCENT SYSTEM - PLAN VIEW
SCALE: 1/4" = 1'-0"



ROPE DESCENT SYSTEM - FRONT VIEW
SCALE: 1/4" = 1'-0"



ROPE DESCENT SYSTEM - SECTION VIEW
SCALE: 1/4" = 1'-0"

FALL PROTECTION ZONES

GREEN ZONE: 15 FEET OR MORE FROM THE ROOF EDGE. EMPLOYER MUST ENSURE EACH EMPLOYEE IS PROTECTED FROM FALLING BY A (1) GUARDRAIL SYSTEM, (2) SAFETY NET SYSTEM, (3) TRAVEL RESTRAINT SYSTEM OR (4) PERSONAL FALL ARREST SYSTEM OR BY A "DESIGNATED AREA," WHICH IS AN AREA DELINEATED BY A PHYSICAL WARNING LINE. SEE OSHA SUBPART D FOR MORE INFORMATION ON PROPER SET-UP AND USE OF WARNING LINES. IN THE CASE WHERE A DESIGNATED AREA IS USED, OSHA REQUIRES EMPLOYERS TO IMPLEMENT AND ENFORCE A WORK RULE PROHIBITING EMPLOYEES FROM GOING WITHIN 15 FEET OF THE ROOF EDGE WITHOUT USING FALL PROTECTION.

YELLOW ZONE: AT LEAST 6 FEET BUT LESS THAN 15 FEET FROM THE ROOF EDGE. EMPLOYER MUST ENSURE EACH EMPLOYEE IS PROTECTED FROM FALLING BY A (1) GUARDRAIL SYSTEM, (2) SAFETY NET SYSTEM, (3) TRAVEL RESTRAINT SYSTEM OR (4) PERSONAL FALL ARREST SYSTEM. HOWEVER, FOR WORK THAT IS BOTH INFREQUENT AND TEMPORARY, OSHA ALLOWS EMPLOYERS TO USE A "DESIGNATED AREA."

RED ZONE: LESS THAN 6 FEET FROM THE ROOF EDGE. EMPLOYER MUST ENSURE EACH EMPLOYEE IS PROTECTED FROM FALLING BY A (1) GUARDRAIL SYSTEM, (2) SAFETY NET SYSTEM, (3) TRAVEL RESTRAINT SYSTEM, OR (4) PERSONAL FALL ARREST SYSTEM.

ANSI/WCA I-14.1 ROPE DESCENT SYSTEM (RDS)

5.7.10 WHILE SUSPENDED, WINDOW CLEANERS SHALL NOT REACH FURTHER THAN SIX (6) FEET (1.8M) IN ANY DIRECTION AS MEASURED FROM PLUMB LINE OF THE SUSPENSION POINT ON THE BEARING POINT ON THE BUILDING. RAPID DESCENTS, EXCESSIVE SWINGING AND SUDDEN STOPS ARE PROHIBITED.

9.1.6 ANCHORAGES SHALL BE UNOBSTRUCTED AND LOCATED BEHIND AND IN LINE WITH THE EQUIPMENT OR PORTION OF THE BUILDING THEY ARE INTENDED TO SERVICE AND SHALL BE FREE OF SHARP EDGES THAT MAY CAUSE DAMAGE TO THE APPURTENANCES ATTACHED TO THEM.

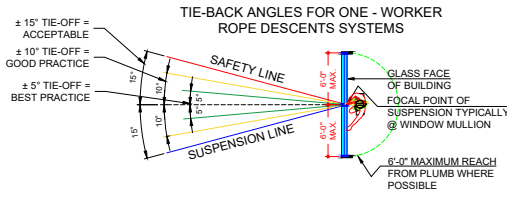
OSHA'S SUBPART D - WALKING - WORKING SURFACES DESIGNATED AREA FOR FALL PROTECTION SYSTEMS

(1) GUARDRAIL SYSTEM
(2) SAFETY NET SYSTEM
(3) TRAVEL RESTRAINT SYSTEM
(4) PERSONAL FALL ARREST SYSTEM

OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES "EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM." THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

OSHA'S SUBPART D - WALKING-WORKING SURFACES REQUIRES STABILIZATION AT THE SPECIFIC WORK LOCATION WHEN DESCENTS ARE GREATER THAN 130 FEET. OSHA HAS DETERMINED THAT STABILIZATION CAN BE SOMETHING AS SIMPLE AS A SUCTION CUP.

COMMON SUCTION CUP USED BY WINDOW CLEANERS. THE TYPICAL CAPACITY RANGES FROM 25LBS TO 35LBS.
[HTTPS://EN.WIKIPEDIA.ORG/WIKI/SUCTION_CUP](https://en.wikipedia.org/wiki/Suction_cup)



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SCALE	1/4" = 1'-0"
DRAWN BY	EF, A.Bohler
CHECKED BY	G.Shafer
APPROVED BY	1/28/2021

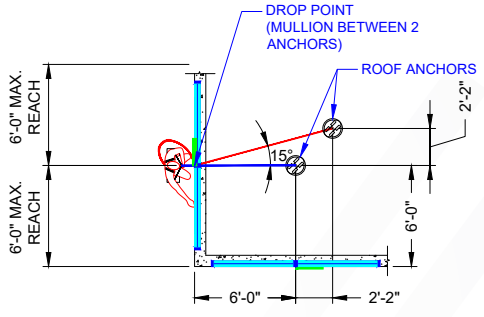
ROPE DESCENT SYSTEM
TEMPLATE GUIDE FOR
INSIDE CORNER

A-1

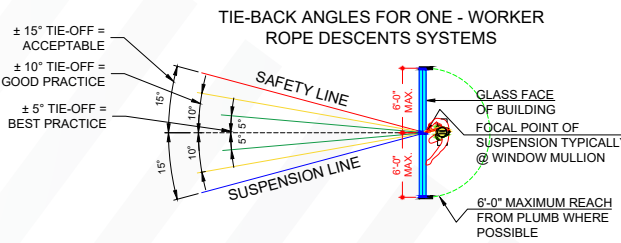
ROPE DESCENT SYSTEM OUTSIDE CORNER LAYOUT REFERENCE DIAGRAM

- NOTES:**
1. MAXIMUM ANCHOR SPACING = 12FT.
 2. MAXIMUM TIE-BACK DISTANCE FROM ROOF EDGE = 50FT.
 3. MAXIMUM ANGLE FROM PERPENDICULAR = 15° FOR BOTH SUSPENSION ROPE AND FALL ARREST ROPE.
 4. WINDOW CLEANER SHALL NOT REACH FURTHER THAN SIX (6) FEET IN ANY DIRECTION.
 5. THE ABOVE IS INTENDED TO SERVE AS AN GUIDE TO THE 1.14 WINDOW CLEANING SAFETY STANDARD. A QUALIFIED PERSON IS REQUIRED TO DESIGN THE ANCHOR LAYOUT SYSTEM (SEE SECTION 9 OF ANSI I.14.1-2001), AND REFER TO FEDERAL AND LOCAL OSHA REGULATIONS AS THESE ARE MORE STRINGENT.
 6. PERIMETER GUARDING 42-INCHES IN HEIGHT (SEE SECTION 9.2 FALL PROTECTION OF ANSI I.14) OR A PERSONAL FALL ARREST SYSTEM IS REQUIRED WHEN INSTALLING OR RIGGING TO AN ANCHOR WITHIN 6FT. OF A ROOF EDGE (SEE I.14.1 2001 APPENDIX)
 7. AT OUTSIDE CORNERS, ANCHORS SHALL BE LOCATED TO PREVENT A ROPE FROM BEING DISPLACED ALONG THE ROOF EDGE.
 8. WHILE SUSPENDED, WINDOW CLEANERS SHALL NOT REACH FURTHER THAN 6FT. (SEE ROPE DESCENT SYSTEMS (RDS) SECTION 5.7.10)

LEGEND
NON RESTRICTED DROP POINTS



OUTSIDE CORNER - PLAN VIEW
SCALE: 1/4" = 1'-0"



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APPROVED BY	1/28/2021

ROPE DESCENT SYSTEM
TEMPLATE GUIDE FOR
OUTSIDE CORNER

A-2

ROPE DESCENT SYSTEM - USING A COMPOSITE SLING ANCHORAGE

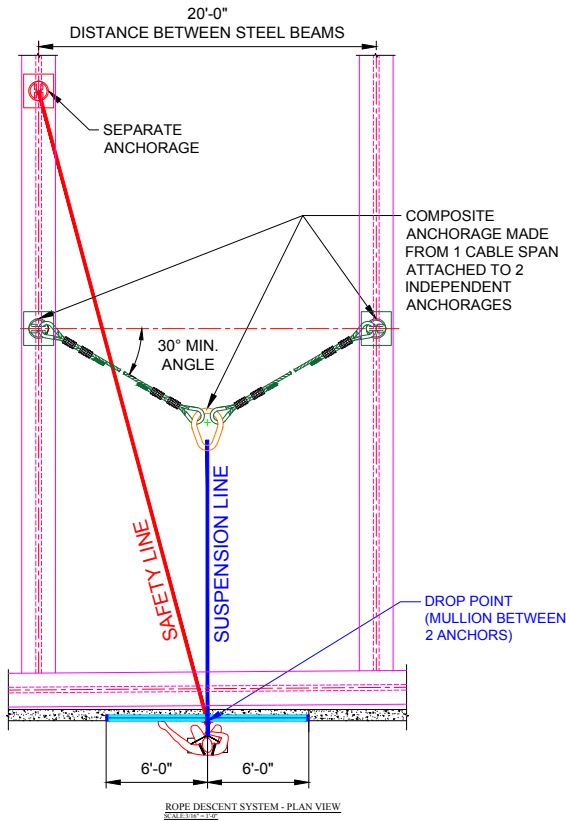
OFTEN MEETING OSHA MINIMUM REQUIREMENT OF 2 ANCHORS PER WORKER FOR ROPE DESCENT SYSTEMS CAN BE CHALLENGING ON STEEL FRAME BUILDING ROOFS. INSTALLATION OF A COMPOSITE ANCHOR SLING MAY BE THE SOLUTION.

LAYOUT REFERENCE DIAGRAM

THE WINDOW CLEANER IS ALWAYS TO ATTACH TO TWO SEPARATE ANCHORAGES. WHEN THE WINDOW CLEANER ATTACHES TO THE MID SPAN RING ON THE HORIZONTAL STEEL LINE FOR PRIMARY SUSPENSION LINE OR FALL PROTECTION, BOTH ANCHORS ARE PUT INTO USE FOR THAT ONE PRIMARY SUSPENSION. THEIR SECOND LINE A.K.A. THE LIFE LINE OR SAFETY LINE SHALL BE ATTACHED TO A COMPLETELY SEPARATE ANCHORAGE. THIS SEPARATE ANCHORAGE SHALL NOT BE EITHER OF THE ANCHORAGES THAT SUPPORTS THE HORIZONTAL STEEL LINE WITH MID SPAN RING FOR THEIR PRIMARY SUPPORT.

LEGEND

- SAFETY LINE ANCHOR
- 2 ANCHORS FOR COMPOSITE SLING ANCHORAGE
- OBLONG RING
- CABLE SLING
- SAFETY LINE
- SUSPENSION LINE



ROPE DESCENT SYSTEM - PLAN VIEW



SCALE	SIZE A 1/8"
DRAWN BY	M. Anwar 3/18/2022
CHECKED BY	G.Saha 3/18/2022
APPROVED BY	

ROPE DESCENT SYSTEM
TEMPLATE GUIDE

A-3

ROPE DESCENT SYSTEM

SET BACK GUARDRAIL LAYOUT REFERENCE DIAGRAM

ANSI/MCA L-14.1
ROPE DESCENT SYSTEM (RDS)

5.7.10 WHILE SUSPENDED, WINDOW CLEANERS SHALL NOT REACH FURTHER THAN SIX (6) FEET (1.8M) IN ANY DIRECTION AS MEASURED FROM PLUMB LINE OF THE SUSPENSION POINT ON THE BEARING POINT ON THE BUILDING. RAPID DESCENTS, EXCESSIVE SWINGING AND SUDDEN STOPS ARE PROHIBITED.

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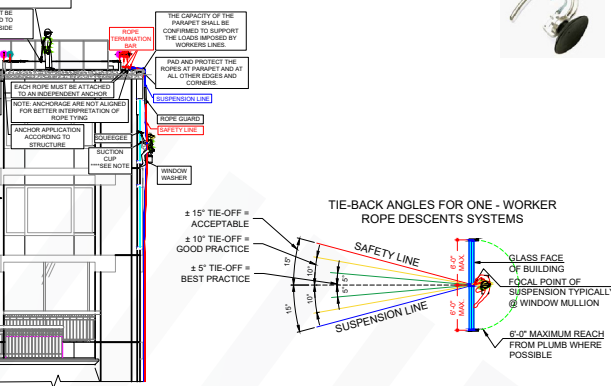
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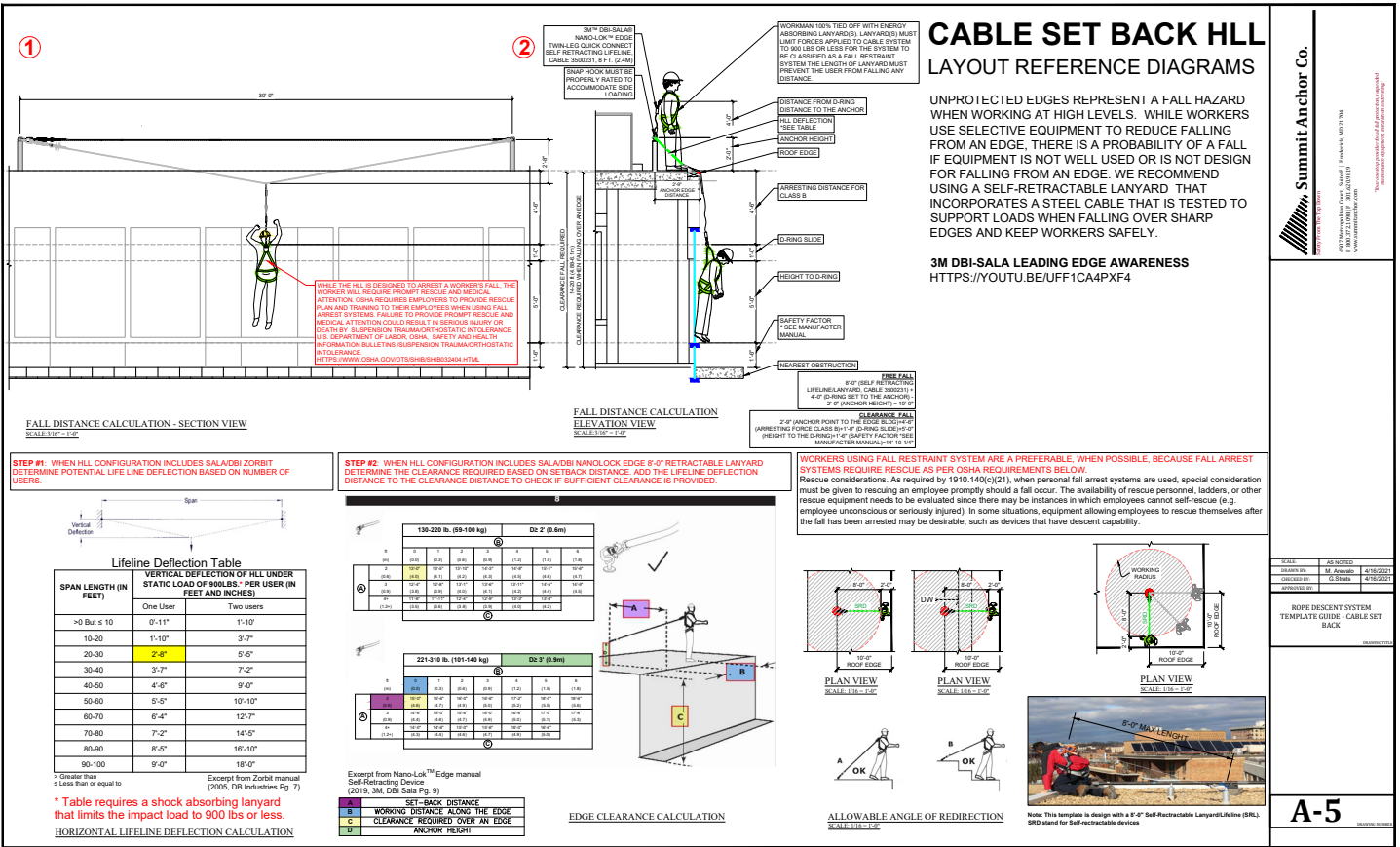
ROPE DESCENT SYSTEM - PLAN VIEW



SCALE	SIZE C 1/8"
DRAWN BY	M. Anwar 3/18/2022
CHECKED BY	G.Saha 3/18/2022
APPROVED BY	

ROPE DESCENT SYSTEM
TEMPLATE GUIDE - CABLE SET
BACK

A-4

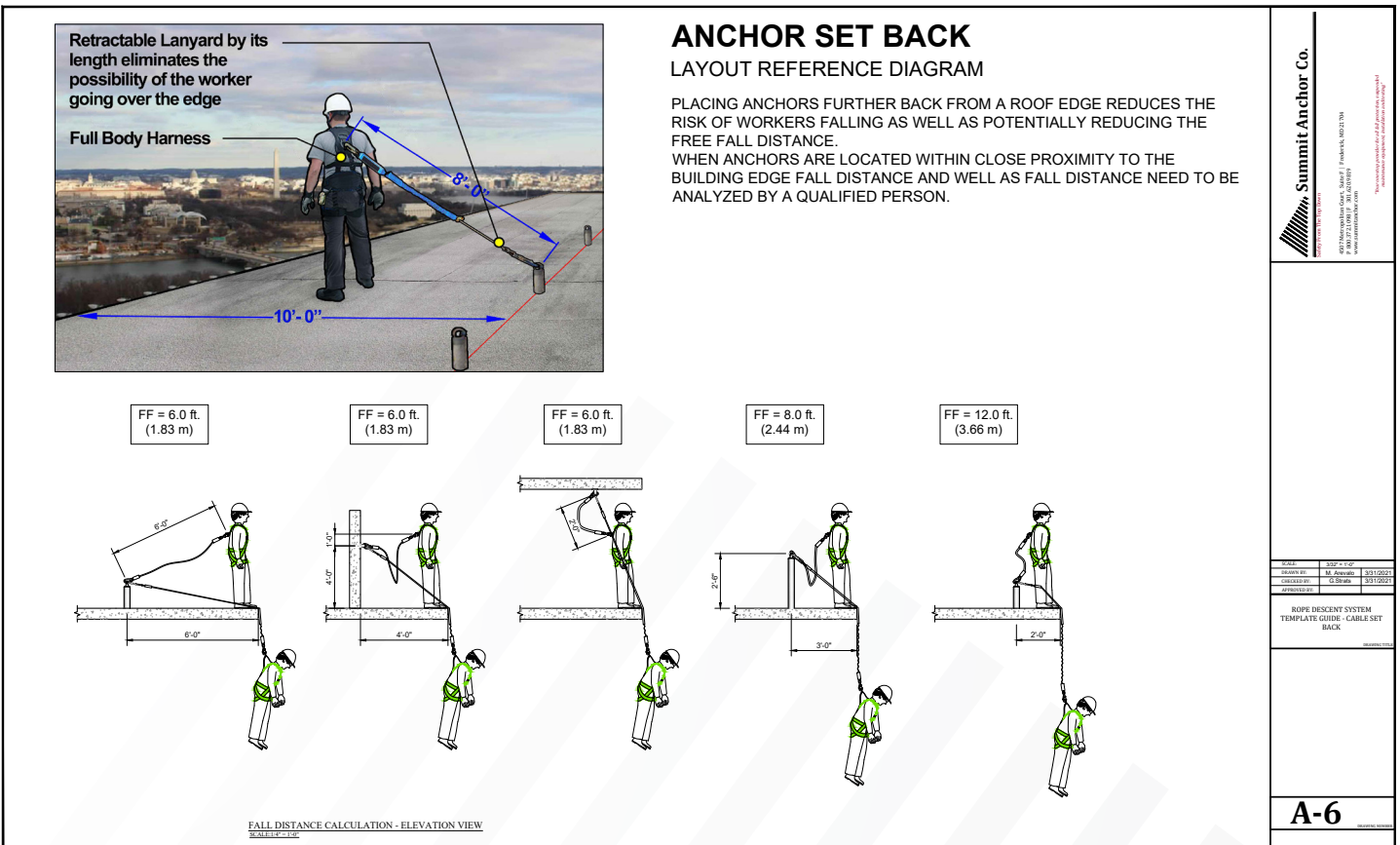


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A-5

REVISIONS:

NO.	AS NOTED	BY	DATE
1	AS NOTED	EF, AR	4/28/2021
2	AS NOTED	CS, AR	4/29/2021
3	AS NOTED	CS, AR	4/29/2021



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A-6

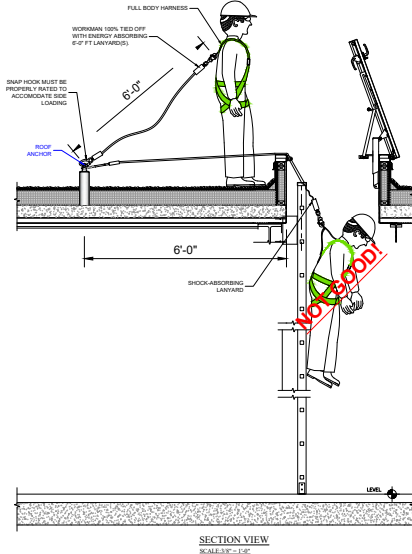
REVISIONS:

NO.	AS NOTED	BY	DATE
1	AS NOTED	EF, AR	5/31/2021
2	AS NOTED	CS, AR	5/31/2021

ROOF HATCH FALL PROTECTION

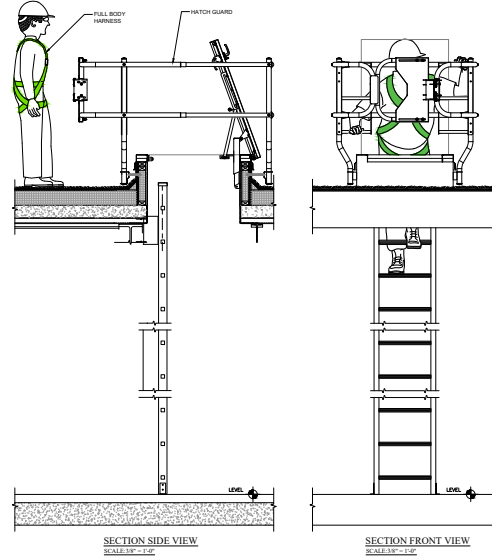
MARGINAL OPTION

ANCHORAGE FOR USE WITH HATCH FOR FALL PROTECTION
 ADDING AN ANCHORAGE FOR FALL PROTECTION ADJACENT TO A ROOF HATCH OR SKY LIGHT OR OPENING IN THE ROOF DOES NOT ELIMINATE A FALL HAZARD



BEST OPTION

HATCH GUARD FOR USE WITH HATCH FOR FALL PROTECTION
 ADDING AN ROOF HATCH GUARD WITH WALK THROUGH LADDER RUNGS FOR FALL PROTECTION TO A ROOF HATCH ELIMINATES MANY FALL HAZARDS. INCORPORATION OF A HATCH GUARD IS CONSIDERED BEST PRACTICE BY SUMMIT ANCHOR CO.



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SCALE	1/4" = 1'-0"
DRAWN BY	M. Amadio 4/22/2017
CHECKED BY	C. S. BARN 4/22/2017
APPROVED BY	4/22/2017

FALL PROTECTION
 TEMPLATE GUIDE

A-7

ANCHOR LAYOUT REFERENCE TEMPLATE GUIDE FOR 2 WORKERS PER BAY AT 20'-0" FT COLUMN TO COLUMN SPACING

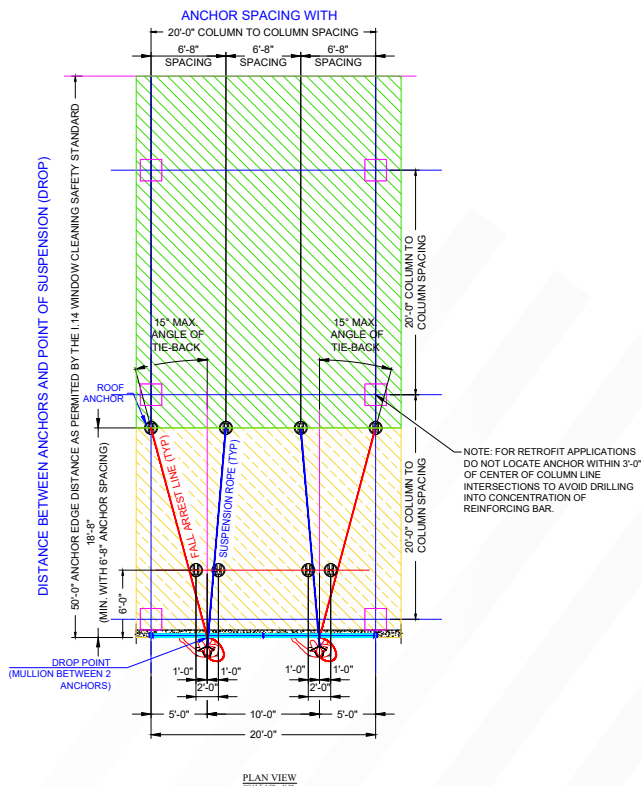
TO 14.1 2001 WINDOW CLEANING SAFETY STANDARD

NOTES:

1. MAXIMUM TIE-BACK DISTANCE FROM ROOF EDGE = 50FT.
2. MAXIMUM ANGLE FROM PERPENDICULAR = 15° FOR BOTH SUSPENSION ROPE AND FALL ARREST ROPE.
3. WINDOW CLEANER SHALL NOT REACH FURTHER THAN SIX (6) FEET IN ANY DIRECTION.

LEGEND

- YELLOW ZONE: 2 ANCHOR PAIRS CENTERED ON THE MULLIONS WITH 20'-0" COLUMN SPACING.
- GREEN ZONE: ANCHORS AT 6'-8" SPACING WITH 20'-0" COLUMN SPACING.



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SCALE	1/4" = 1'-0"
DRAWN BY	M. Amadio 1/22/2017
CHECKED BY	C. S. BARN 1/22/2017
APPROVED BY	1/22/2017

EQUIPMENT PLACEMENT
 CHART - FOR 20'-0" FT
 SPACING

A-8



ANCHOR LAYOUT FOR 1 WORKER PER BAY AT 20'-0" FT COLUMN TO COLUMN SPACING

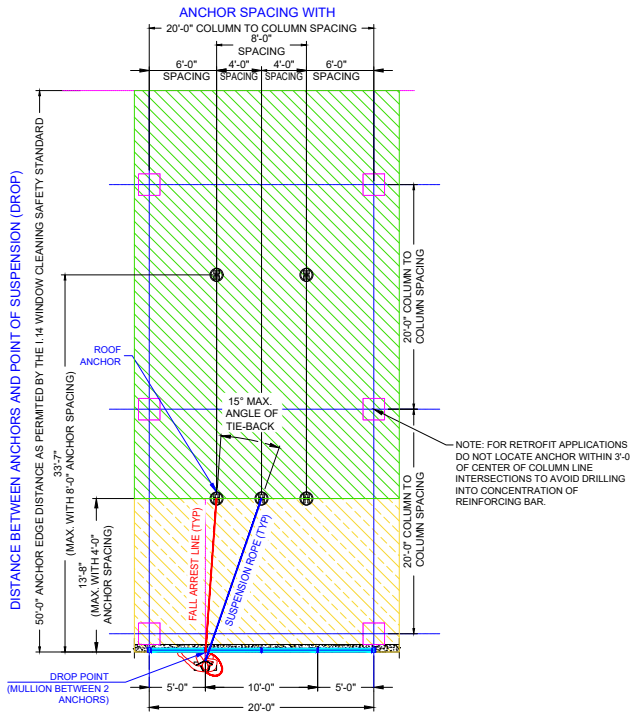
TO 14.1 2001 WINDOW CLEANING SAFETY STANDARD

NOTES:

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2. MAXIMUM ANGLE FROM PERPENDICULAR = 15° FOR BOTH SUSPENSION ROPE AND FALL ARREST LINE.
3. WINDOW CLEANER SHALL NOT REACH FURTHER THAN SIX (6) FEET IN ANY DIRECTION.

LEGEND

- YELLOW ZONE: 3 ANCHOR CENTERED ON EVERY OTHER WINDOW MULLION @ 4'-0" FT ON CENTER WITH 20'-0" COLUMN SPACING.
- GREEN ZONE: ANCHORS AT 8'-0" SPACING WITH 20'-0" COLUMN SPACING.



PLAN VIEW
SCALE: 1/4" = 1'-0"

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TITLE	158'-1'-0"
DRAWN BY	EF, Anshu
CHECKED BY	CS, Brian
APPROVED BY	1/25/2021

EQUIPMENT PLACEMENT CHART - FOR 20'-0" FT SPACING

A-9

ANCHOR LAYOUT REFERENCE TEMPLATE GUIDE FOR 2 WORKERS PER BAY AT 24'-0" FT COLUMN TO COLUMN SPACING

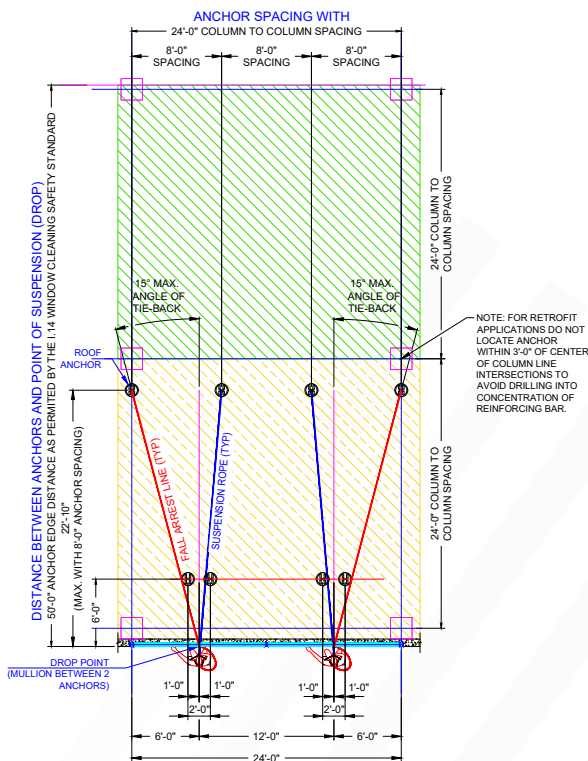
TO 14.1 2001 WINDOW CLEANING SAFETY STANDARD

NOTES:

1. MAXIMUM TIE-BACK DISTANCE FROM ROOF EDGE = 50FT.
2. MAXIMUM ANGLE FROM PERPENDICULAR = 15° FOR BOTH SUSPENSION ROPE AND FALL ARREST LINE.
3. WINDOW CLEANER SHALL NOT REACH FURTHER THAN SIX (6) FEET IN ANY DIRECTION.

LEGEND

- YELLOW ZONE: 2 ANCHOR PAIRS CENTERED ON THE MULLIONS WITH 24'-0" COLUMN SPACING.
- GREEN ZONE: ANCHORS AT 8'-0" SPACING WITH 24'-0" COLUMN SPACING.



PLAN VIEW
SCALE: 1/4" = 1'-0"

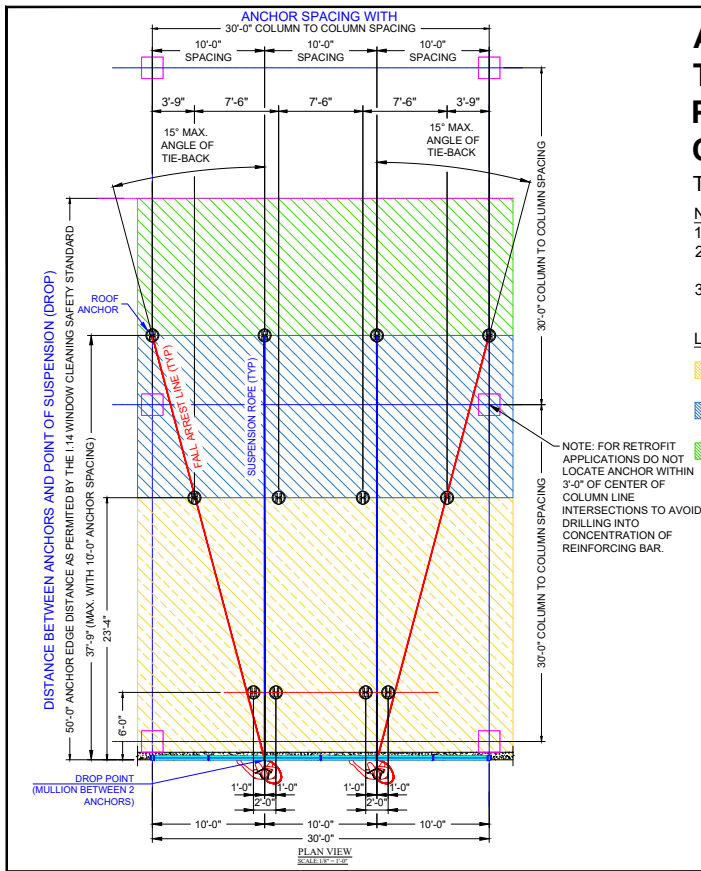
Summit Anchor Co.
 1875 Macomber Court, Suite F, Franklin, MA 01701
 P: (802) 372-1098 F: (802) 372-1099
 www.summitanchor.com

TITLE	158'-1'-0"
DRAWN BY	EF, Anshu
CHECKED BY	CS, Brian
APPROVED BY	1/25/2021

EQUIPMENT PLACEMENT CHART - FOR 24'-0" FT SPACING

A-10





ANCHOR LAYOUT REFERENCE TEMPLATE GUIDE FOR 2 WORKERS PER BAY AT 30'-0" FT COLUMN TO COLUMN SPACING

TO 14.1 2001 WINDOW CLEANING SAFETY STANDARD

NOTES:

1. MAXIMUM TIE-BACK DISTANCE FROM ROOF EDGE = 50FT.
2. MAXIMUM ANGLE FROM PERPENDICULAR = 15° FOR BOTH SUSPENSION ROPE AND FALL ARREST ROPE.
3. WINDOW CLEANER SHALL NOT REACH FURTHER THAN SIX (6) FEET IN ANY DIRECTION.

LEGEND

- YELLOW ZONE: ANCHOR PAIRS CENTERED ON EVERY OTHER WINDOW MULLION @ 10 FT ON CENTER WITH 30'-0" COLUMN SPACING.
- BLUE ZONE: ANCHORS AT 7'-6" SPACING CENTERED @ WINDOW MULLION WITH 30'-0" COLUMN SPACING.
- GREEN ZONE: ANCHORS AT 10'-0" SPACING WITH 30'-0" COLUMN SPACING.

NOTE: FOR RETROFIT APPLICATIONS DO NOT LOCATE ANCHOR WITHIN 3'-0" OF CENTER OF COLUMN LINE INTERSECTIONS TO AVOID DRILLING INTO CONCENTRATION OF REINFORCING BAR.

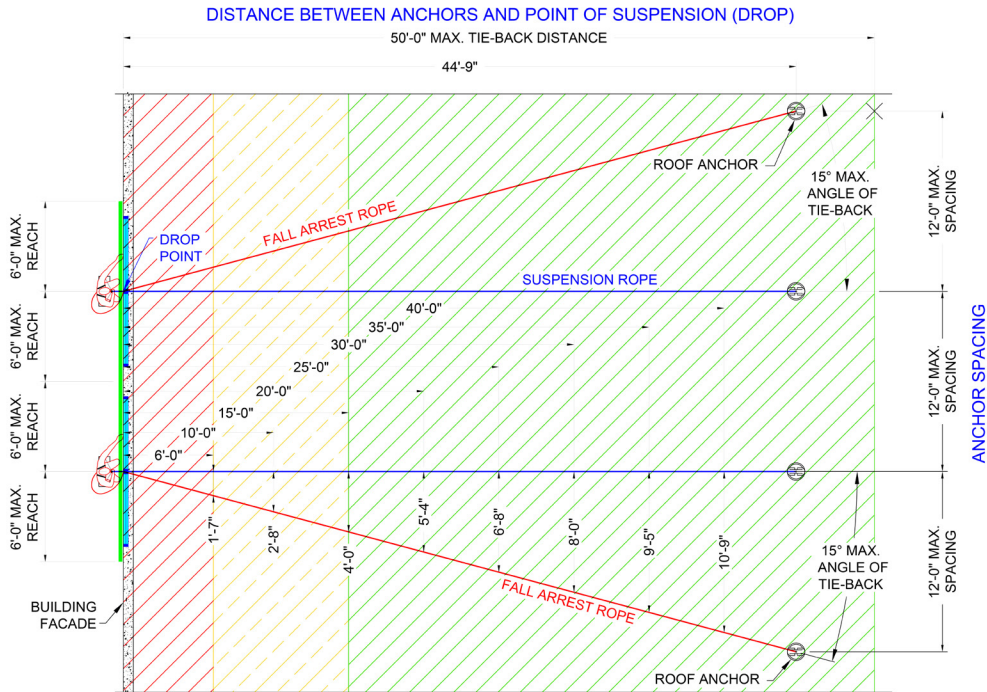
Summit Anchor Co.
 1870 Macomber Court, Suite F, Columbus, MS 39204
 P: 662.321.0010 | F: 662.321.0011
 www.summitanchor.com

SCALE	1/8" = 1'-0"
DRAWN BY	EF. Andrews 1/28/2021
CHECKED BY	CS. Smith 1/28/2021
APPROVED BY	

EQUIPMENT PLACEMENT CHART - FOR 30'-0" FT SPACING

A-11

NON RESTRICTIVE ANCHOR LAYOUT GUIDE ANCHOR LAYOUT REFERENCE GUIDE TO 14.1 2001 WINDOW CLEANING SAFETY STANDARD



GENERAL NOTES:

1. MAXIMUM ANCHOR SPACING = 12FT.
2. MAXIMUM TIE-BACK DISTANCE FROM ROOF EDGE = 50FT.
3. MAXIMUM ANGLE FROM PERPENDICULAR = 15° FOR BOTH SUSPENSION ROPE AND FALL ARREST ROPE.
4. WINDOW CLEANER SHALL NOT REACH FURTHER THAN SIX (6) FEET IN ANY DIRECTION.

FALL PROTECTION ZONES

- GREEN ZONE:** 15 FEET OR MORE FROM THE ROOF EDGE. EMPLOYER MUST ENSURE EACH EMPLOYEE IS PROTECTED FROM FALLING BY A (1) GUARDRAIL SYSTEM; (2) SAFETY NET SYSTEM; (3) TRAVEL RESTRAINT SYSTEM; OR (4) PERSONAL FALL ARREST SYSTEM, OR BY A "DESIGNATED AREA," WHICH IS AN AREA DELINEATED BY A PHYSICAL WARNING LINE. SEE OSHA SUBPART D FOR MORE INFORMATION ON PROPER SET-UP AND USE OF WARNING LINES. IN THE CASE WHERE A DESIGNATED AREA IS USED, OSHA REQUIRES EMPLOYERS TO IMPLEMENT AND ENFORCE A WORK RULE PROHIBITING EMPLOYEES FROM GOING WITHIN 15 FEET OF THE ROOF EDGE WITHOUT USING FALL PROTECTION.
- YELLOW ZONE:** AT LEAST 6 FEET BUT LESS THAN 15 FEET FROM THE ROOF EDGE. EMPLOYER MUST ENSURE EACH EMPLOYEE IS PROTECTED FROM FALLING BY A (1) GUARDRAIL SYSTEM; (2) SAFETY NET SYSTEM; (3) TRAVEL RESTRAINT SYSTEM; OR (4) PERSONAL FALL ARREST SYSTEM. HOWEVER, FOR WORK THAT IS BOTH INFREQUENT AND TEMPORARY, OSHA ALLOWS EMPLOYERS TO USE A "DESIGNATED AREA."
- RED ZONE:** LESS THAN 6 FEET FROM THE ROOF EDGE. EMPLOYER MUST ENSURE EACH EMPLOYEE IS PROTECTED FROM FALLING BY A (1) GUARDRAIL SYSTEM; (2) SAFETY NET SYSTEM; (3) TRAVEL RESTRAINT SYSTEM; OR (4) PERSONAL FALL ARREST SYSTEM.

LEGEND

- NON-RESTRICTED DROP POINTS

Anchor Model Guide

E 1 C - P H - 0 5 - 0 8 0 - 0 8 0 - 1 2 A 3 5 - G

NUMERICAL CODE IS FOR PERMANENT ROOF MOUNTED EQUIPMENT AND THESE SUB ASSEMBLY ONLY LOOSE ITEMS LIKE SCREWS AND SHIP HEAD NUTS USE THE SM-100-10-10 CODE.

ITEM PURPOSE: (TOP OF ITEM)	ANCHOR/BASE ATTACHMENT TO STRUCTURE OR BOTTOM ITEM TYPE:	BASE PLATE THICKNESS: (OR MOUNTING PL.)	BASE PLATE LENGTH: (OR MOUNTING PL.)	BASE PLATE WIDTH: (OR MOUNTING PL.)	TUBE HEIGHT: (OR LENGTH OF ITEM)	TUBE SCHEDULE: (PIPE OR RING)	TUBE O.D.: (OUTSIDE DIAMETER)	MATERIAL FINISH:	
E1 = STEEL FRAMED SUMMIT ANCHOR EYE CENTER ON TUBE	PS = PLATE FOR SHEET PILING WITH STUCCO	1 = 1/8" 2 = 3/16" 3 = 1/4" 4 = 1/2"	1 = 1/8" 2 = 3/16" 3 = 1/4" 4 = 1/2"	1 = 1/8" 2 = 3/16" 3 = 1/4" 4 = 1/2"	1 = 1/8" 2 = 3/16" 3 = 1/4" 4 = 1/2"	A = 5" B = 6" C = 8" D = 10" E = 12" F = 14" G = 16" H = 18" I = 20" J = 24" K = 28" L = 32" M = 36" N = 40" O = 44" P = 48" Q = 52" R = 56" S = 60" T = 64" U = 68" V = 72" W = 76" X = 80" Y = 84" Z = 88"	1 1/2" 2" 2 1/2" 3" 3 1/2" 4" 4 1/2" 5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2" 9" 9 1/2" 10" 10 1/2" 11" 11 1/2" 12" 12 1/2" 13" 13 1/2" 14" 14 1/2" 15" 15 1/2" 16" 16 1/2" 17" 17 1/2" 18" 18 1/2" 19" 19 1/2" 20" 20 1/2" 21" 21 1/2" 22" 22 1/2" 23" 23 1/2" 24" 24 1/2" 25" 25 1/2" 26" 26 1/2" 27" 27 1/2" 28" 28 1/2" 29" 29 1/2" 30" 30 1/2" 31" 31 1/2" 32" 32 1/2" 33" 33 1/2" 34" 34 1/2" 35" 35 1/2" 36" 36 1/2" 37" 37 1/2" 38" 38 1/2" 39" 39 1/2" 40" 40 1/2" 41" 41 1/2" 42" 42 1/2" 43" 43 1/2" 44" 44 1/2" 45" 45 1/2" 46" 46 1/2" 47" 47 1/2" 48" 48 1/2" 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BOLT-ON ANCHORS, 4-HOLES

E1C-PH-05-080-080-12A35-G
SM-1-8-12-12-06

CONCRETE-EMBED ANCHORS

XXX-PE-05-080-080-0000.0-M
SM-5-8-18-58-06

E1C-PE-04-050-050-1883.5-G
SM-6-5-18-12

E1C-PH-05-080-080-12A3.5-G
SM-1-8-12-12-06

BOLT-ON ANCHORS, 2-HOLES

E1C-PH-05-080-080-00R0.0-G
SM-81-8-12-58-V-06

E1C-PH-05-080-080-00R0.0-G
SM-81-8-12-58-V-06

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SM-81-8-12-58-V-06

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SM-81-8-12-58-V-06

WELD-ON ANCHORS

E1C-EW-00-000-000-00R0.0-G
SM-4-0-X

E1C-TW-00-000-000-12A3.5-G
SM-4-0-12

E1C-PW-04-043-043-12A3.5-G
SM-4-4-12

E1C-PW-04-043-044-1883.5-G
SM-4-4-B18-12

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A-12

PROJECT: NOMENCLATURE CHART
PLOT SCALE: 1:4
PAGE NO. 10 of 10

BOLT-ON ANCHORS - 4-HOLES

E1C-PH-05-080-080-12A3.5-G
SM-1-8-12-12-06

E1C-PH-05-080-080-00R0.0-G
SM-1-8-0-06

① - 4 BOLT PATTERN
② - PLATE SIZE SQUARE
③ - TUBE LENGTH
④ - PLATE THICKNESS
⑤ - HOLE SIZE

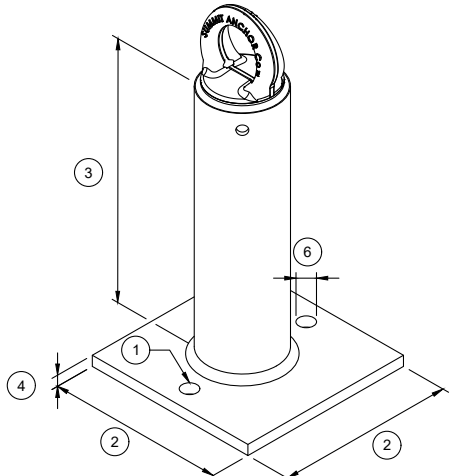
① - 4 BOLT PATTERN
② - PLATE SIZE SQUARE
③ - RING 3-1/2" O.D. X 1/2" (*)
④ - HOLE SIZE

* NOTE: REPLACE 0 WITH X WHEN EYE WELDED DIRECTLY TO BASE PLATE

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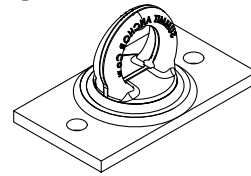
A-13

BOLT-ON ANCHORS - 2-HOLES

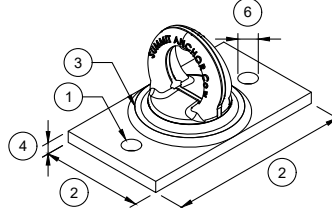


E1C-PH-05-080-080-00R0.0-G
SM-81-8-12-58-V-06

- ① - 2 BOLT PATTERN
- ② - PLATE SIZE
- ③ - TUBE LENGTH
- ④ - PLATE THICKNESS
- ⑤ - EYE ORIENTATION
- ⑥ - HOLE SIZE



E1C-PH-05-080-040-00R0.0-G
SM-81-[8-4]-0-12-H-06



E1C-PH-05-080-040-00R0.0-G
SM-81-[8-4]-0-12-V-06

- ① - 2 BOLT PATTERN
- ② - PLATE SIZE
- ③ - RING 3½" O.D. X ½" (*)
- ④ - PLATE THICKNESS
- ⑤ - EYE ORIENTATION
- ⑥ - HOLE SIZE

* NOTE: REPLACE 0 WITH X WHEN EYE WELDED DIRECTLY TO BASE PLATE

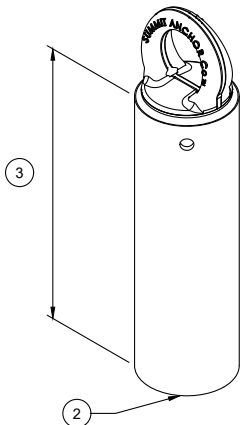
Summit Anchor Co.
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SCALE:	IMP"=100'
DRAWN BY:	H. Arnold
CHECKED BY:	G. Smith
APPROVED BY:	

NOMENCLATURE
 SM-81

A-14

WELD ON ANCHORS



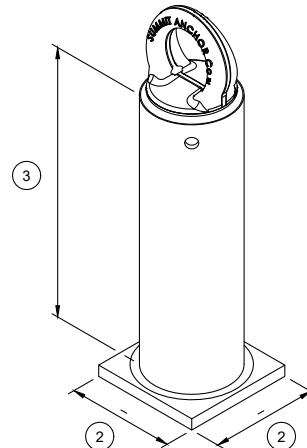
E1C-TW-00-000-000-12A3.5-G
SM-4-0-12

- ① - FOR WELD-ON APPLICATION
- ② - NO BASE PLATE
- ③ - TUBE LENGTH



E1C-EW-00-000-000-00R0.0-G
SM-4-0-X

- ① - FOR WELD-ON APPLICATION
- ② - NO BASE PLATE
- ③ - TUBE LENGTH *



E1C-PW-04-043-043-12A3.5-G
SM-4-4-12

- ① - FOR WELD-ON APPLICATION
- ② - PLATE SIZE SQUARE
- ③ - TUBE LENGTH

* NOTE: REPLACE 0 WITH X WHEN EYE WELDED DIRECTLY TO BASE PLATE

Summit Anchor Co.
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 P: 800.372.1098 | F: 816.324.9899
 www.summitanchor.com | info@summitanchor.com

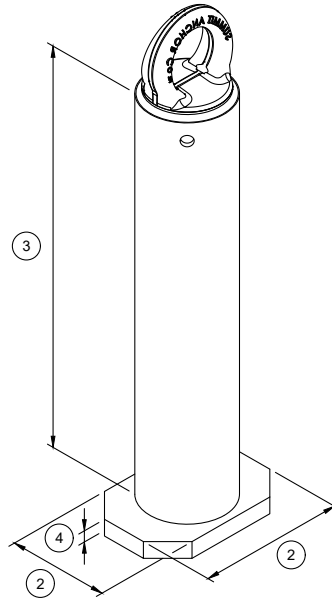
SCALE:	IMP"=100'
DRAWN BY:	H. Arnold
CHECKED BY:	G. Smith
APPROVED BY:	

NOMENCLATURE
 SM-4

A-15



WELD ON ANCHORS - 3 WAY INTERSECTION



E1C-PW-04-043-044-18B3.5-G
SM-4-[6-4-B]18-12

- ① FOR WELD-ON APPLICATION
- ② PLATE SIZE
- ③ TUBE LENGTH
- ④ PLATE THICKNESS

* NOTE: REPLACE 0 WITH X WHEN EYE WELDED DIRECTLY TO BASE PLATE

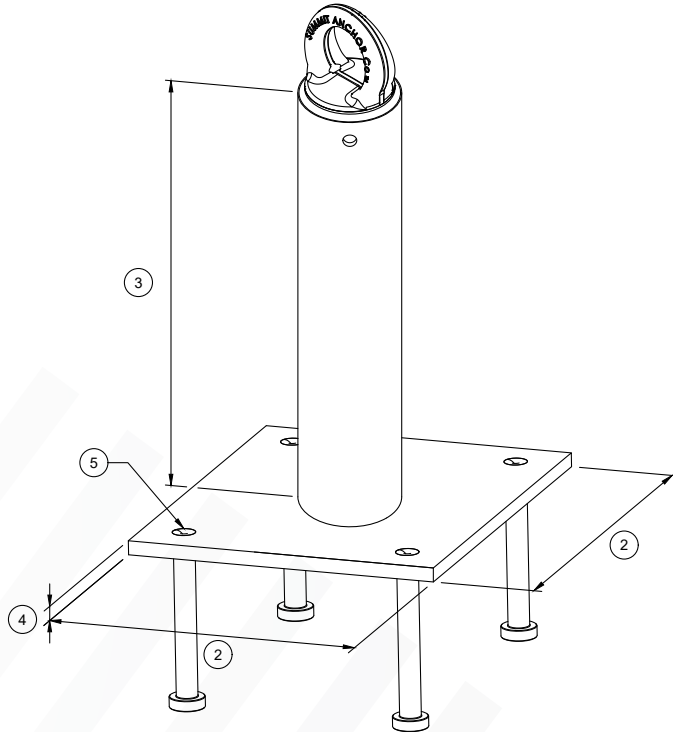


SCALE:	SMP-100%	DATE:	1/20/2021
DESIGNED BY:	G. S. B. S.	CHECKED BY:	1/20/2021
APPROVED BY:			

NOMENCLATURE
SM-4

A-16

CONCRETE EMBED ANCHORS



4-STUD, CAST-IN-PLACE ANCHOR
 XXX-PE-05-080-080-00X0.0-M

SM-5-8-18-58-06

- ① FOR CONCRETE EMBED APPLICATION
- ② PLATE SIZE SQUARE
- ③ TUBE LENGTH
- ④ PLATE THICKNESS
- ⑤ STUD SIZE



SCALE:	SMP-100%	DATE:	1/20/2021
DESIGNED BY:	G. S. B. S.	CHECKED BY:	1/20/2021
APPROVED BY:			

NOMENCLATURE
SM-5

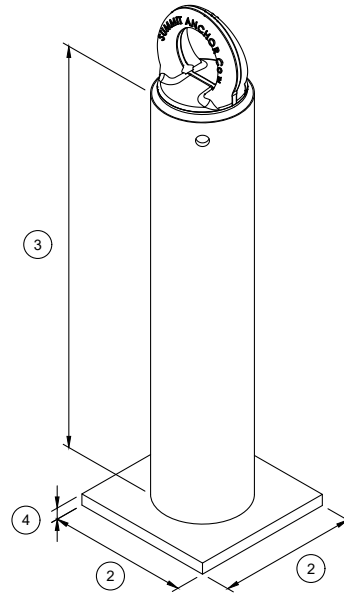
A-17

CONCRETE - EMBED ANCHORS

SINGLE PLATE, CAST-IN-PLACE ANCHOR
E1C-PE-04-050-050-18B3.5-G

SM-6-5-18-12

- ① FOR CONCRETE EMBED APPLICATION
- ② PLATE SIZE SQUARE
- ③ TUBE LENGTH
- ④ PLATE THICKNESS



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P.O. Box 372 (1001) St. Paul, MN 55101
Phone: (612) 221-1111
www.summitanchor.com

SCALE:	AS SHOWN
DESIGNED BY:	G. Smith
DATE:	1/29/2017

NOMENCLATURE
SM-6

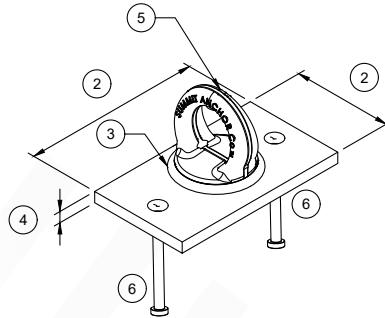
A-18

CONCRETE - EMBED ANCHORS

2-STUD, CAST IN PLACE ANCHOR
E1C-PE-04-080-040-00R0.0-G

SM-85-[8-4]-X-12-V-06

- ① FOR CONCRETE EMBED APPLICATION
- ② PLATE SIZE SQUARE
- ③ TUBE LENGTH *
- ④ PLATE THICKNESS
- ⑤ EYE ORIENTATION TO HOLE PATTERN
- ⑥ STUD SIZE



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SCALE:	AS SHOWN
DESIGNED BY:	G. Smith
DATE:	1/29/2017

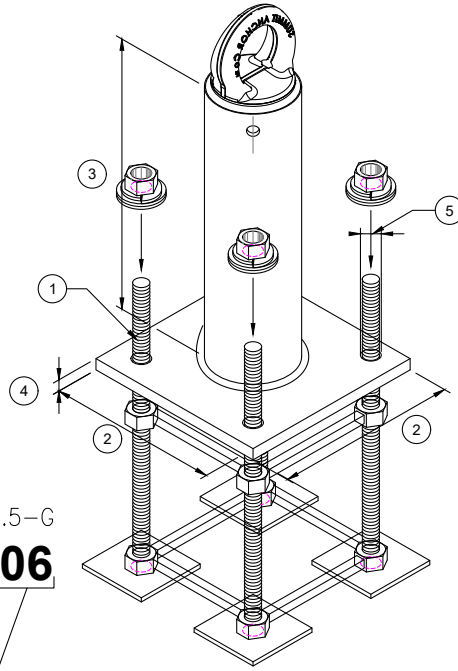
NOMENCLATURE
SM-85

A-19

* NOTE: REPLACE 0 WITH X WHEN EYE WELDED DIRECTLY TO BASE PLATE



BOLT-ON 4 HOLES - CIP-CAGE



E1C-PH-05-080-080-12A3.5-G

SM-1-8-12-12-06

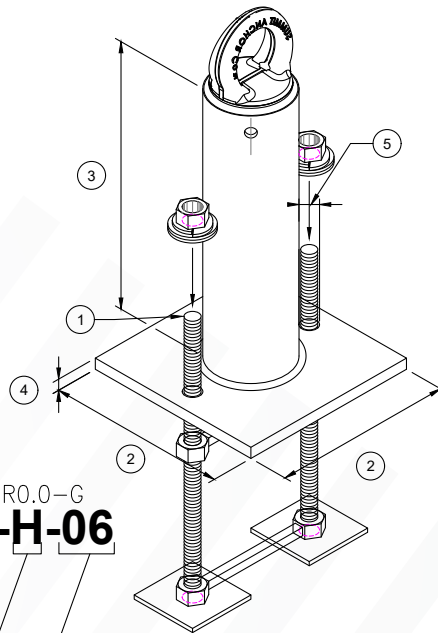
- ① - 4 BOLT PATTERN
- ② - PLATE SIZE SQUARE
- ③ - TUBE LENGTH
- ④ - PLATE THICKNESS
- ⑤ - HOLE SIZE

DATE:	3/31/13
DESIGNED BY:	M. F. Anderson
CHECKED BY:	C. Starn
APPROVED BY:	

CIP CAGES

A-20

BOLT-ON 2 HOLES - CIP-CAGE



E1C-PH-05-080-080-00R0.0-G

SM-81-8-12-12-H-06

- ① - 2 BOLT PATTERN
- ② - PLATE SIZE
- ③ - TUBE LENGTH
- ④ - PLATE THICKNESS
- ⑤ - EYE ORIENTATION
- ⑥ - HOLE SIZE


DATE:	3/31/13
DESIGNED BY:	M. F. Anderson
CHECKED BY:	C. Starn
APPROVED BY:	

CIP CAGES

A-21

Application Guide

SM-1 Series Anchors - 4 Bolt Pattern



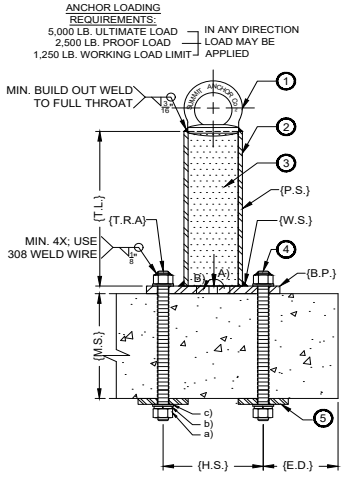
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ROOF ANCHOR BOLTED THROUGH CONCRETE SLAB

- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- SM-TRA: 5/8"Ø or 3/4"Ø 304 B8 CHISEL TIPPED STAINLESS STEEL THREADED RODS
 - F 594 HEX NUT
 - 18-8 STAINLESS STEEL LOCK WASHER
 - F 436 HARDENER GALVANIZED FLAT WASHER
- SM-PLT: 3/8" THICK, BACK PLATES.

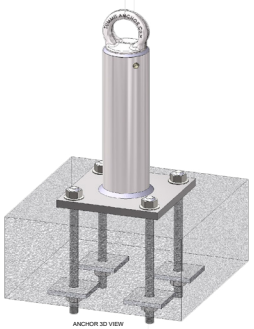
ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT



MIN. BUILD OUT WELD TO FULL THROAT.

MIN. 4X; USE 308 WELD WIRE

Labels: (T.L.), (T.R.A.), (P.S.), (W.S.), (B.P.), (H.S.), (E.D.)




ANCHOR 3D VIEW

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL BACKER PLATES: ASTM A36
- ALL FORGED PAD EYES: AISI 1045
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)
- THREADED RODS: 304 GR. B8 CLASS 2

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MARKETING DRAWING FOR THRU-BOLTED ANCHORS
DRAWING NO. SM-1-xx-xx A-1 PLOT SCALE: 1/1 PAGE NO. 1 of 2



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ROOF ANCHOR BOLTED THROUGH CONCRETE SLAB


MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (T)	PIPE SIZE (P.S.)	BASE PLATE SIZE (B.P.)	HOLE SPACING (H.S.)	TUBE TO BASE WELD SIZE (W.S.)	MIN. EMBEDMENT (E.B.)	MIN. SLAB THICKNESS (M.S.)	(TRA)	MIN. EDGE DISTANCE (E.D.)
SM-1-8-12-12-06	3/4"	12"	3/4" O.D. SCH 40, x 216"	8" X 8" X 1/2"	6"	1/2"	2,500-3,750 4,000-4,000 5,000-3,750	3,000-4,750 4,000-4,000 5,000-3,750	5/8" Ø X 4"	30"
SM-1-10-12-08-06	3/4"	12"	3/4" O.D. SCH 40, x 216"	10" X 10" X 5/8"	8"	1/2"	3,000-3,500 4,000-3,000 5,000-3,000	3,000-3,500 4,000-3,000 5,000-3,000	5/8" Ø X 4"	24"
SM-1-12-12-08-06	3/4"	12"	3/4" O.D. SCH 40, x 216"	12" X 12" X 5/8"	10"	1/2"	3,000-3,500 4,000-3,000 5,000-2,500	3,000-3,500 4,000-3,000 5,000-2,500	5/8" Ø X 4"	24"
SM-1-14-12-08-06	3/4"	12"	3/4" O.D. SCH 40, x 216"	14" X 14" X 5/8"	12"	1/2"	3,000-3,500 4,000-2,500 5,000-2,500	3,000-3,500 4,000-2,500 5,000-2,500	5/8" Ø X 4"	24"
SM-1-16-12-08-06	3/4"	12"	3/4" O.D. SCH 40, x 216"	16" X 16" X 5/8"	14"	1/2"	3,000-3,500 4,000-2,500 5,000-2,500	3,000-3,500 4,000-2,500 5,000-2,500	5/8" Ø X 4"	12"
SM-1-10-18-08-06	3/4"	18"	3/4" O.D. SCH 80, x 300"	10" X 10" X 5/8"	8"	1/2"	2,000-4,500 3,000-3,000 4,000-3,750	2,000-4,500 3,000-3,000 4,000-3,750	5/8" Ø X 4"	24"
SM-1-12-18-08-06	3/4"	18"	3/4" O.D. SCH 80, x 300"	12" X 12" X 5/8"	10"	1/2"	2,000-4,500 3,000-3,250 4,000-3,000	2,000-4,500 3,000-3,250 4,000-3,000	5/8" Ø X 4"	24"
SM-1-14-18-08-06	3/4"	18"	3/4" O.D. SCH 80, x 300"	14" X 14" X 5/8"	12"	1/2"	2,000-4,500 3,000-3,250 4,000-3,000	2,000-4,500 3,000-3,250 4,000-3,000	5/8" Ø X 4"	12"
SM-1-16-18-08-06	3/4"	18"	3/4" O.D. SCH 80, x 300"	16" X 16" X 5/8"	14"	1/2"	2,000-4,500 3,000-3,250 4,000-3,000	2,000-4,500 3,000-3,250 4,000-3,000	5/8" Ø X 4"	12"
SM-1-10-24-34-06	3/4"	24"	4/4" O.D. SCH 40, x 231"	10" X 10" X 3/4"	8"	1/2"	3,000-5,000 4,000-4,750 5,000-4,500	3,000-5,000 4,000-4,750 5,000-4,500	5/8" Ø X 4"	26"
SM-1-14-24-34-06	3/4"	24"	4/4" O.D. SCH 40, x 231"	14" X 14" X 3/4"	12"	1/2"	3,000-5,000 4,000-4,750 5,000-4,500	3,000-5,000 4,000-4,750 5,000-4,500	5/8" Ø X 4"	24"
SM-1-16-36-34-07	7/8"	36"	4/4" O.D. SCH 80, x 331"	16" X 16" X 3/4"	13"	1/2"	2,000-4,750 3,000-3,250 4,000-3,000	2,000-4,750 3,000-3,250 4,000-3,000	5/8" Ø X 4"	38"
SM-1-16-45-78-07	7/8"	45"	4/4" O.D. SCH 80, x 331"	16" X 16" X 7/8"	13"	1/2"	3,000-4,750 4,000-3,250 5,000-3,500	3,000-4,750 4,000-3,250 5,000-3,500	5/8" Ø X 4"	30"

SM-1-8-12-12-06

Legend:
 ○ 4-BOLT PATTERN
 □ PLATE SIZE SQUARE
 ○ TUBE LENGTH
 ○ PLATE THICKNESS
 ○ HOLE SIZE

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MARKETING DRAWING FOR THRU-BOLTED ANCHORS
DRAWING NO. SM-1-xx-xx A-1 PLOT SCALE: 1/1 PAGE NO. 1 of 2



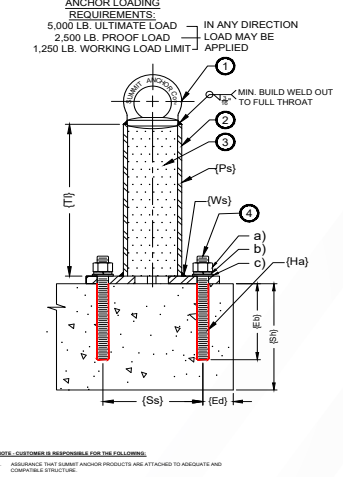
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ANCHOR MOUNTED WITH 4 EPOXY FASTENERS

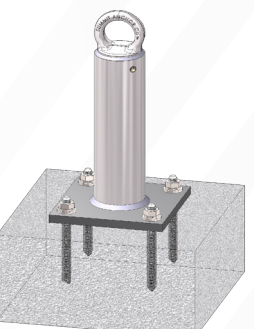
- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- SM-TRA-ADH: 5/8"Ø or 3/4"Ø 304 B8 CHISEL TIPPED STAINLESS STEEL THREADED RODS
 - F 594 HEX NUT
 - 18-8 STAINLESS STEEL LOCK WASHER
 - F 436 HARDENER GALVANIZED FLAT WASHER
- SM-EPX-RE-500: HILTI-RE-500 V3 EPOXY ADHESIVE. INSTALLATION PER ESR-3814

ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT



MIN. BUILD OUT WELD TO FULL THROAT.

Labels: (T.L.), (P.S.), (W.S.), (H.A.), (S.S.), (E.D.)




ANCHOR 3D VIEW

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1045
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)
- THREADED RODS: HILTI-RA 3034

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MARKETING DRAWING FOR ANCHORS MOUNTED WITH EPOXY FASTENERS
DRAWING NO. SM-1-xx-xx A-1 PLOT SCALE: 1/1 PAGE NO. 1 of 1



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ANCHOR MOUNTED WITH 4 EPOXY FASTENERS

MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (T)	PIPE SIZE (P.S.)	BASE PLATE SIZE (B.P.)	HOLE SPACING (H.S.)	TUBE TO BASE WELD SIZE (W.S.)	MIN. EMBEDMENT (E.B.)	MIN. SLAB THICKNESS (M.S.)	HILTI HAS ROD (H.A.)	MIN. EDGE DISTANCE (E.D.)
SM-1-8-10-12-06	3/4"	0"	N/A	8" X 8" X 1/2"	6"	N/A	2,500-3,750 3,000-3,250 4,000-4,750	2,500-5,250 3,000-4,750 4,000-4,750	5/8" Ø X 5/8"	10"
SM-1-8-12-12-06	3/4"	12"	3/4" O.D. SCH 40, x 216"	8" X 8" X 1/2"	6"	1/2"	3,000-6,250 4,000-5,250 5,000-5,250	3,000-7,750 4,000-7,250 5,000-7,250	5/8" Ø X 10" 5/8" Ø X 7-5/8"	26"
SM-1-10-12-12-06	3/4"	12"	3/4" O.D. SCH 40, x 216"	10" X 10" X 1/2"	8"	1/2"	2,500-5,500 3,000-4,500 4,000-6,000	2,500-7,000 3,000-6,000 4,000-6,000	5/8" Ø X 7-1/2"	20"
SM-1-12-12-12-06	3/4"	12"	3/4" O.D. SCH 40, x 216"	12" X 12" X 1/2"	10"	1/2"	2,500-5,500 3,000-4,500 4,000-6,000	2,500-7,000 3,000-6,000 4,000-6,000	5/8" Ø X 7-1/2"	16"
SM-1-14-12-12-06	3/4"	12"	3/4" O.D. SCH 40, x 216"	14" X 14" X 1/2"	12"	1/2"	2,500-5,500 3,000-4,500 4,000-6,000	2,500-7,000 3,000-6,000 4,000-6,000	5/8" Ø X 7-1/2"	12"
SM-1-16-12-12-06	3/4"	12"	3/4" O.D. SCH 40, x 216"	16" X 16" X 1/2"	14"	1/2"	2,500-5,500 3,000-4,500 4,000-6,000	2,500-7,000 3,000-6,000 4,000-6,000	5/8" Ø X 7-1/2"	12"
SM-1-10-18-08-06	3/4"	18"	3/4" O.D. SCH 80, x 300"	10" X 10" X 5/8"	8"	1/2"	2,500-7,000 3,000-5,000 4,000-6,250	2,500-8,500 3,000-8,000 4,000-7,125	5/8" Ø X 10" 5/8" Ø X 7-5/8"	22"
SM-1-12-18-08-06	3/4"	18"	3/4" O.D. SCH 80, x 300"	12" X 12" X 5/8"	10"	1/2"	2,500-7,000 3,000-5,500 4,000-6,250	2,500-8,500 3,000-7,000 4,000-6,000	5/8" Ø X 7-5/8"	16"
SM-1-14-18-08-06	3/4"	18"	3/4" O.D. SCH 80, x 300"	14" X 14" X 5/8"	12"	1/2"	2,500-7,000 3,000-5,500 4,000-6,250	2,500-8,500 3,000-7,000 4,000-6,000	5/8" Ø X 7-5/8"	16"
SM-1-16-18-08-06	3/4"	18"	3/4" O.D. SCH 80, x 300"	16" X 16" X 5/8"	14"	1/2"	2,500-7,000 3,000-5,500 4,000-6,250	2,500-8,500 3,000-7,000 4,000-6,000	5/8" Ø X 7-1/2"	12"
SM-1-10-24-58-06	3/4"	24"	4/4" O.D. SCH 40, x 237"	10" X 10" X 5/8"	8"	1/2"	3,000-8,000 4,000-7,500 5,000-7,000	3,000-9,500 4,000-9,000 5,000-8,500	5/8" Ø X 10"	28"
SM-1-12-24-58-06	3/4"	24"	4/4" O.D. SCH 40, x 237"	12" X 12" X 5/8"	10"	1/2"	3,000-8,000 4,000-7,500 5,000-7,000	3,000-9,500 4,000-9,000 5,000-8,500	5/8" Ø X 10"	24"
SM-1-14-24-58-06	3/4"	24"	4/4" O.D. SCH 40, x 237"	14" X 14" X 5/8"	12"	1/2"	3,000-8,000 4,000-7,500 5,000-7,000	3,000-9,500 4,000-9,000 5,000-8,500	5/8" Ø X 7-5/8"	18"
SM-1-12-36-34-07	7/8"	36"	4/4" O.D. SCH 80, x 337"	12" X 12" X 3/4"	9"	1/2"	2,500-8,500 3,000-8,000 4,000-7,500	2,500-10,000 3,000-9,500 4,000-9,000	5/8" Ø X 12"	30"
SM-1-12-45-34-07	7/8"	45"	4/4" O.D. SCH 80, x 337"	12" X 12" X 3/4"	9"	1/2"	3,000-10,000 4,000-9,500 5,000-9,000	3,000-11,000 4,000-10,500 5,000-10,000	5/8" Ø X 14"	22"

SM-1-8-12-12-06

Legend:
 ○ 4-BOLT PATTERN
 □ PLATE SIZE SQUARE
 ○ TUBE LENGTH
 ○ PLATE THICKNESS
 ○ HOLE SIZE

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MARKETING DRAWING FOR ANCHORS MOUNTED WITH EPOXY FASTENERS
DRAWING NO. SM-1-xx-xx A-1 PLOT SCALE: 1/1 PAGE NO. 1 of 1



ROOF ANCHOR MOUNTED WITH UNDERCUT FASTENERS

SUMMIT MODEL #: SM-1 ROOF ANCHOR

ANCHOR LOADING REQUIREMENTS:
 5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
 2,500 LB. PROOF LOAD LOAD MAY BE APPLIED IN ANY DIRECTION
 1,250 LB. WORKING LOAD LIMIT

- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
- HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.**
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.**
- SM-HDA-TF M10X100/20 - ITEM 331545: SHERARIZED ZINC COATING HAS EQUIVALENT CORROSION RESISTANCE TO HOP-DIP GALVANIZATION. INSTALLATION PER ESR-1546.**

ANCHOR 3D VIEW

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

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 Toll Free: 800.372.1098 Web: www.summitanchor.com

MARKETING DRAWING FOR UNDERCUT FASTENERS
 DRAWING NO. **SM-1-X-X-X** PLOT SCALE: 1:1
 PAGE NO. 1 OF 2

ROOF ANCHOR MOUNTED WITH UNDERCUT FASTENERS

SUMMIT MODEL #: SM-1 ROOF ANCHOR

ANCHOR LOADING REQUIREMENTS:
 5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
 2,500 LB. PROOF LOAD LOAD MAY BE APPLIED IN ANY DIRECTION
 1,250 LB. WORKING LOAD LIMIT

- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
- HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.**
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.**
- SM-HDA-TF M10X100/20 - ITEM 331545: SHERARIZED ZINC COATING HAS EQUIVALENT CORROSION RESISTANCE TO HOP-DIP GALVANIZATION. INSTALLATION PER ESR-1546.**

ANCHOR 3D VIEW

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

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MARKETING DRAWING FOR UNDERCUT FASTENERS
 DRAWING NO. **SM-1-X-X-X** PLOT SCALE: 1:1
 PAGE NO. 2 OF 2

ROOF ANCHOR MOUNTED WITH HILTI KWIK BOLTS

SUMMIT MODEL #: SM-1 ROOF ANCHOR

ANCHOR LOADING REQUIREMENTS:
 5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
 2,500 LB. PROOF LOAD LOAD MAY BE APPLIED IN ANY DIRECTION
 1,250 LB. WORKING LOAD LIMIT - APPLIED

- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
- (Ps) HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.**
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.**
- SM-KB TZ: KWIK BOLT TZ STAINLESS STEEL EXPANSION ANCHOR ASSEMBLY:**
 a) 304 STAINLESS STEEL HEAVY HEX NUT
 b) 18-8 STAINLESS STEEL LOCK WASHER
 c) F 436 HARDENER GALVANIZED ZINC WASHER

ANCHOR 3D VIEW

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

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MARKETING DRAWING FOR ANCHORS MOUNTED WITH HILTI KWIK BOLTS
 DRAWING NO. **SM-1-X-X-X** PLOT SCALE: 1:1
 PAGE NO. 1 OF 2

ROOF ANCHOR MOUNTED WITH HILTI KWIK BOLTS

SUMMIT MODEL #: SM-1 ROOF ANCHOR

ANCHOR LOADING REQUIREMENTS:
 5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
 2,500 LB. PROOF LOAD LOAD MAY BE APPLIED IN ANY DIRECTION
 1,250 LB. WORKING LOAD LIMIT - APPLIED

- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
- (Ps) HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.**
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.**
- SM-KB TZ: KWIK BOLT TZ STAINLESS STEEL EXPANSION ANCHOR ASSEMBLY:**
 a) 304 STAINLESS STEEL HEAVY HEX NUT
 b) 18-8 STAINLESS STEEL LOCK WASHER
 c) F 436 HARDENER GALVANIZED ZINC WASHER

ANCHOR 3D VIEW

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

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MARKETING DRAWING FOR ANCHORS MOUNTED WITH HILTI KWIK BOLTS
 DRAWING NO. **SM-1-X-X-X** PLOT SCALE: 1:1
 PAGE NO. 2 OF 2

ROOF ANCHOR WRAPPED AROUND STEEL BEAM

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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT

IN ANY DIRECTION
LOAD MAY BE APPLIED

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 200 LB. WORKING LOAD LIMIT ALLOWABLE LOAD
b) 500 LB. PROOF LOAD LIMIT (LOAD WITHOUT PERMANENT DEFORMATION)
c) 1,250 LB. ULTIMATE LOAD (MAXIMUM PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE (i.e. SEE MCA-141 WINDOW CLEANING SAFETY STANDARDS).
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPARES WITH APPLICABLE LOCAL, NATIONAL, CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTIONS MUST BE FULLY REINFORCED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, TORSION, AND AXIAL FORCES ETC. THE PRODUCT ENGINEER OF RECORD OR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MANUFACTURING ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTIONS TO THE MAIN STRUCTURE, CONNECTIONS TO COMPRESSION STRUCTURAL MEMBERS OR STEEL, DETAILING LOCAL STRENGTHENING TO BE BRACING APPROVED OR MECHANICAL ANCHOR PATENTERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- RENDERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY ENCL. IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND NO WARRANTY REPRESENTATIONS ASSOCIATED WITH THE DRAWING OR PROCEEDING BEING CONSIDERED. ANY ANALYSIS FOR STRUCTURES OTHER THAN PRODUCTS SHOWN HEREIN SHALL BE THE RESPONSIBILITY OF THE USER. ANY OTHER INTENDED USES OF EQUIPMENT IS OUT OF THIS SCOPE.

1 SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.

2 HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.

3 SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.

4 SM-TRA: 5/8"Ø or 3/4"Ø 304 B8 CHISEL TIPPED STAINLESS STEEL THREADED RODS
a) F 594 HEX NUT
b) 18-8 STAINLESS STEEL LOCK WASHER
c) F 436 HARDENER GALVANIZED FLAT WASHER

5 SM-PLT: BOTTOM PLATE TO FIT BEAM.

ANCHOR 3D VIEW

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

DATE	DESCRIPTION	BY	CHKD

Summit Anchor Co.
MARKETING DRAWING FOR ANCHOR WRAPPED AROUND STEEL BEAM
DRAWING NO. **SM-1-XX-XX** **A-1** **PLF SCALE: 1/4"**
PAGE NO. 1 OF 2

ROOF ANCHOR WRAPPED AROUND STEEL BEAM

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SUMMIT STANDARD ANCHOR MODELS

MODEL #	HOLE SIZE IN BASE PLATE	TUBE LENGTH (Tl)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	TUBE TO BASE WELD SIZE (Ws)	MAX. BEAM WIDTH (B.W.)	MIN. BEAM WIDTH, CENTERED
SM-1-8-2-12-06	3/4"	2"	3/4" O.D. SCH.40, x .216"	8" X 8" X 1/2"	1/4"	5 1/2"	4"
SM-1-10-2-12-06	3/4"	2"	3/4" O.D. SCH.40, x .216"	10" X 10" X 1/2"	1/4"	7 1/2"	5"
SM-1-12-2-58-06	3/4"	2"	3/4" O.D. SCH.40, x .216"	12" X 12" X 1/2"	1/4"	9 1/2"	6 1/2"
SM-1-8-12-12-06	3/4"	12"	3/4" O.D. SCH.40, x .216"	8" X 8" X 1/2"	1/4"	5 1/2"	4"
SM-1-10-12-58-06	3/4"	12"	3/4" O.D. SCH.40, x .216"	10" X 10" X 1/2"	1/4"	7 1/2"	5"
SM-1-12-12-58-06	3/4"	12"	3/4" O.D. SCH.40, x .216"	12" X 12" X 1/2"	1/4"	9 1/2"	6 1/2"
SM-1-8-18-58-06	3/4"	18"	3/4" O.D. SCH.80, x .300"	8" X 8" X 1/2"	5/16"	5 1/2"	4"
SM-1-10-18-58-06	3/4"	18"	3/4" O.D. SCH.80, x .300"	10" X 10" X 1/2"	5/16"	7 1/2"	5"
SM-1-12-18-58-06	3/4"	18"	3/4" O.D. SCH.80, x .300"	12" X 12" X 1/2"	5/16"	9 1/2"	6 1/2"
SM-1-8-24-58-06	3/4"	24"	4 1/2" O.D. SCH.40, x .237"	8" X 8" X 1/2"	5/16"	5 1/2"	4"
SM-1-10-24-58-06	3/4"	24"	4 1/2" O.D. SCH.40, x .237"	10" X 10" X 1/2"	5/16"	7 1/2"	5"
SM-1-12-24-58-06	3/4"	24"	4 1/2" O.D. SCH.40, x .237"	12" X 12" X 1/2"	5/16"	9 1/2"	6 1/2"

SM-1-8-12-12-06

- BOLT PATTERN
- PLATE SIZE SQUARE
- TUBE LENGTH
- PLATE THICKNESS
- HOLE SIZE

DATE	DESCRIPTION	BY	CHKD

Summit Anchor Co.
MARKETING DRAWING FOR ANCHOR WRAPPED AROUND STEEL BEAM
DRAWING NO. **SM-1-XX-XX** **A-2** **PLF SCALE: 1/4"**
PAGE NO. 2 OF 2

ROOF ANCHOR WRAPPED AROUND CORRUGATED DECK

SUMMIT MODEL #: SM-1 ROOF ANCHOR

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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT

IN ANY DIRECTION
LOAD MAY BE APPLIED

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 200 LB. WORKING LOAD LIMIT ALLOWABLE LOAD
b) 500 LB. PROOF LOAD LIMIT (LOAD WITHOUT PERMANENT DEFORMATION)
c) 1,250 LB. ULTIMATE LOAD (MAXIMUM PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE (i.e. SEE MCA-141 WINDOW CLEANING SAFETY STANDARDS).
- THE ADHESIVE OR EPOXY SHALL BE RATED FOR LIVE, DYNAMIC LOADS BY THE FASTENER MANUFACTURER. A PROFESSIONAL ENGINEER SHALL SPECIFY THE FASTENER FOR THE ATTACHMENT OF THE ANCHOR TO THE STRUCTURE IN ACCORDANCE WITH STRENGTH DESIGN FOR REINFORCED CONCRETE. NOTE: 1.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPARES WITH APPLICABLE LOCAL, NATIONAL, CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTIONS MUST BE FULLY REINFORCED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, TORSION, AND AXIAL FORCES ETC. THE PRODUCT ENGINEER OF RECORD OR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MANUFACTURING ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTIONS TO THE MAIN STRUCTURE, CONNECTIONS TO COMPRESSION STRUCTURAL MEMBERS OR STEEL, DETAILING LOCAL STRENGTHENING TO BE BRACING APPROVED OR MECHANICAL ANCHOR PATENTERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- RENDERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY ENCL. IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND NO WARRANTY REPRESENTATIONS ASSOCIATED WITH THE DRAWING OR PROCEEDING BEING CONSIDERED. ANY ANALYSIS FOR STRUCTURES OTHER THAN PRODUCTS SHOWN HEREIN SHALL BE THE RESPONSIBILITY OF THE USER. ANY OTHER INTENDED USES OF EQUIPMENT IS OUT OF THIS SCOPE.

1 SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.

2 HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.

3 SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.

4 SM-TRA: 5/8"Ø or 3/4"Ø 304 B8 CHISEL TIPPED STAINLESS STEEL THREADED RODS
a) F 594 HEX NUT
b) 18-8 STAINLESS STEEL LOCK WASHER
c) F 436 HARDENER GALVANIZED FLAT WASHER

5 SM-PLT-TS: 2"x2"x1/8" TUBE STEEL, SPAN A MINIMUM OF 3 BOTTOM RIBS

ANCHOR 3D VIEW

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

DATE	DESCRIPTION	BY	CHKD

Summit Anchor Co.
MARKETING DRAWING FOR ANCHOR WRAPPED AROUND CORRUGATED DECK
DRAWING NO. **SM-1-XX-XX** **A-1** **PLF SCALE: 1/4"**
PAGE NO. 1 OF 2

ROOF ANCHOR WRAPPED AROUND CORRUGATED DECK

SUMMIT MODEL #: SM-1 ROOF ANCHOR

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SUMMIT STANDARD ANCHOR MODELS

MODEL #	HOLE SIZE IN BASE PLATE	TUBE LENGTH (Tl)	PIPE SIZE (Ps)	TUBE TO BASE WELD SIZE (Ws)	BASE PLATE SIZE (Bp)	MIN. RIB WIDTH (Rw)	HOLE SPACING (Hs)	MIN. DECK DEPTH (Dd)	MIN. TOP RIB TO TOP OF SLAB (Tr)	MIN. CONCRETE TOTAL HEIGHT (Th)
SM-1-10-12-58-06	3/4"	12"	3/4" O.D. SCH. 40, x .216"	1/4"	10" X 10" X 1/2"	7 1/2"	8"	2"	4"	6"
SM-1-10-18-58-06	3/4"	18"	3/4" O.D. SCH.80, x .300"	5/16"	10" X 10" X 1/2"	7 1/2"	8"	2"	4"	6"
SM-1-10-24-58-06	3/4"	24"	4 1/2" O.D. SCH.40, x .237"	5/16"	10" X 10" X 1/2"	7 1/2"	8"	3"	5"	8"
SM-1-10-36-34-06	3/4"	36"	5 1/2" O.D. SCH.80, x .337"	5/16"	10" X 10" X 1/2"	7 1/2"	8"	3"	5"	8"
SM-1-12-27-58-06	3/4"	27"	4 1/2" O.D. SCH.40, x .237"	5/16"	12" X 12" X 1/2"	5"	10"	2"	2-1/2"	4-1/2"

SM-1-8-12-12-06


- BOLT PATTERN
- PLATE SIZE SQUARE
- TUBE LENGTH
- PLATE THICKNESS
- HOLE SIZE

DATE	DESCRIPTION	BY	CHKD

Summit Anchor Co.
MARKETING DRAWING FOR ANCHOR WRAPPED AROUND CORRUGATED DECK
DRAWING NO. **SM-1-XX-XX** **A-2** **PLF SCALE: 1/4"**
PAGE NO. 2 OF 2

SM-1 Series Anchors - Custom

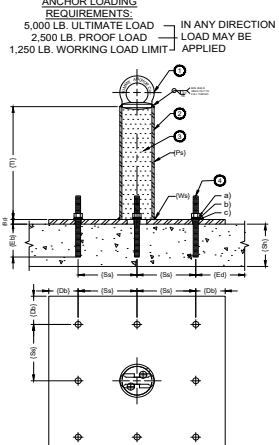
ROOF ANCHOR MOUNTED WITH 8 EPOXY FASTENERS



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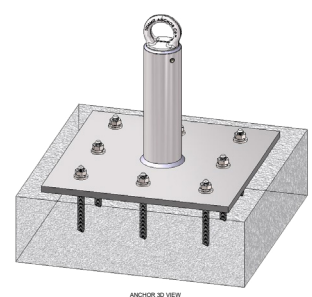
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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT



IN ANY DIRECTION
LOAD MAY BE APPLIED

- SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE:** HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.
- SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- SM-TRA-ADH:** X"Ø 304 B8 CHISEL TIPPED STAINLESS STEEL THREADED RODS
 - a) F 504 HEX NUT
 - b) 18-8 STAINLESS STEEL LOCK WASHER
 - c) F 436 HARDENER GALVANIZED FLAT WASHER



ANCHOR 3D VIEW

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN RETILED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
Ø 1 1/2" HOLE: PROOF LOAD 1875 POUNDS/LOAD
Ø 2" HOLE: PROOF LOAD 2500 POUNDS/LOAD
Ø 3" HOLE: PROOF LOAD 4000 POUNDS/LOAD
Ø 4" HOLE: PROOF LOAD 6000 POUNDS/LOAD
Ø 5" HOLE: PROOF LOAD 8000 POUNDS/LOAD
Ø 6" HOLE: PROOF LOAD 10000 POUNDS/LOAD
Ø 8" HOLE: PROOF LOAD 15000 POUNDS/LOAD
Ø 10" HOLE: PROOF LOAD 20000 POUNDS/LOAD
- THE UNDERTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. ANCHORS SHOULD BE INSTALLED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONAL STRUCTURAL ANALYSIS AND DESIGN SHOULD BE OBTAINED FROM A PROFESSIONAL ENGINEER BEFORE ANY ANCHOR IS PLACED INTO SERVICE. SEE BRCA 1411 WINDOW CLEANING SAFETY STANDARDS.
- THE ANCHORS OR EPXY SHALL BE RATED FOR LIVE, DYNAMIC LOADS BY THE ANCHOR MANUFACTURER. A PROFESSIONAL ENGINEER SHALL VERIFY THE FASTENERS FOR THE ATTACHMENT OF THE ANCHOR TO THE STRUCTURE IN ACCORDANCE WITH STRENGTH DESIGN PER AMERICAN CONCRETE INSTITUTE.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS SHALL BE FULLY DEVELOPED TO ADEQUATELY SUPPORT THE APPLICABLE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE DESIGN OF ANY ASSOCIATED CONNECTIONS. FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE CONNECTIONS, STEEL CONNECTIONS, AND ASSOCIATED MATERIALS SHALL BE FULLY DEVELOPED TO ADEQUATELY SUPPORT THE APPLICABLE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ANY ASSOCIATED CONNECTIONS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENTS REQUIRED TO SUPPORT THE APPLICABLE LOADS.
- INDUSTRIAL/UTILITY PROVIDER UNDER THIS STAMP AND SEAL, IS THE ONLY PROVIDER FOR EQUIPMENT INFORMATION ON THESE DRAWINGS. BEFORE ANY PROPOSED BUILDING CONFIGURATION AND ANCHOR LAYOUT NOT SHOWN HEREIN, THE CONTRACTOR SHALL CONSULT WITH THE INDUSTRY/UTILITY PROVIDER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL REQUIREMENTS FOR THE ANCHOR LAYOUT.

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A400 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

DATE: _____


SCALE: _____

PROJECT: _____

DRAWING NO.: **SM-1-xx-xx**

PILOT SCALE: **A-1**

PAGE NO. 1 OF 2



ANCHOR MOUNTED WITH EPOXY FASTENERS & BOLTS PATTERN

DATE: _____

SCALE: _____


PROJECT: _____

DRAWING NO.: **SM-1-xx-xx**

PILOT SCALE: **A-1**

PAGE NO. 2 OF 2

ROOF ANCHOR MOUNTED WITH 8 EPOXY FASTENERS



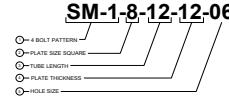
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SUMMIT STANDARD

MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (TL)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	HOLE SPACING (Hs)	TUBE TO BASE WELD SIZE (Wb)	MIN. EMBEDMENT DEPTH (Ed)	MIN. SLAB THICKNESS (Sh)	HILTI HAS ROD DISTANCE (Hr)	MIN. EDGE DISTANCE (Ee)	BOLT EDGE DISTANCE (Eb)
SM-1-18-12-05	5/8"	12"	3/4" O.D. SCH.40, x 216"	18" x 18" x 1/2"	6"	1/4"	4,000-2,75"	4,000-4,50"	1/2" Ø X 6-1/2"	12"	3"
SM-1-12-18-58-05	3/4"	18"	3/4" O.D. SCH.80, x 300"	12" x 12" x 5/8"	4-1/2"	1/8"	4,000-5,50"	4,000-9,00"	1/2" Ø X 7-1/2"	12"	1-1/2"

SM-1-8-12-12-06



DATE: _____

SCALE: _____

PROJECT: _____

DRAWING NO.: **SM-1-xx-xx**

PILOT SCALE: **A-1**

PAGE NO. 1 OF 2

DATE: _____

SCALE: _____


PROJECT: _____

DRAWING NO.: **SM-1-xx-xx**

PILOT SCALE: **A-1**

PAGE NO. 2 OF 2

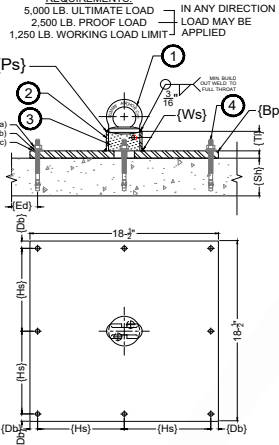
ROOF ANCHOR MOUNTED WITH 8 HILTI KWIK BOLTS



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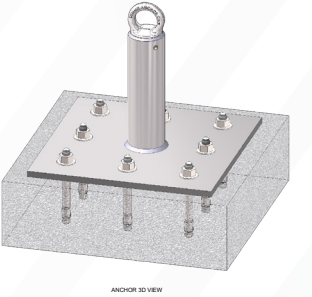
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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT



IN ANY DIRECTION
LOAD MAY BE APPLIED

- SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE:** HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.
- SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- SM-KB TZ - 1/2" x 5" - ITEM #3437372:** KWIK BOLT TZ STAINLESS STEEL EXPANSION ANCHOR ASSEMBLY:
 - a) 304 STAINLESS STEEL HEAVY HEX NUT
 - b) 18-8 STAINLESS STEEL LOCK WASHER
 - c) F 436 HARDENER GALVANIZED FLAT WASHER



ANCHOR 3D VIEW

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN RETILED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
Ø 1 1/2" HOLE: PROOF LOAD 1875 POUNDS/LOAD
Ø 2" HOLE: PROOF LOAD 2500 POUNDS/LOAD
Ø 3" HOLE: PROOF LOAD 4000 POUNDS/LOAD
Ø 4" HOLE: PROOF LOAD 6000 POUNDS/LOAD
Ø 5" HOLE: PROOF LOAD 8000 POUNDS/LOAD
Ø 6" HOLE: PROOF LOAD 10000 POUNDS/LOAD
Ø 8" HOLE: PROOF LOAD 15000 POUNDS/LOAD
Ø 10" HOLE: PROOF LOAD 20000 POUNDS/LOAD
- THE UNDERTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. ANCHORS SHOULD BE INSTALLED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONAL STRUCTURAL ANALYSIS AND DESIGN SHOULD BE OBTAINED FROM A PROFESSIONAL ENGINEER BEFORE ANY ANCHOR IS PLACED INTO SERVICE. SEE BRCA 1411 WINDOW CLEANING SAFETY STANDARDS.
- THE ANCHORS OR EPXY SHALL BE RATED FOR LIVE, DYNAMIC LOADS BY THE ANCHOR MANUFACTURER. A PROFESSIONAL ENGINEER SHALL VERIFY THE FASTENERS FOR THE ATTACHMENT OF THE ANCHOR TO THE STRUCTURE IN ACCORDANCE WITH STRENGTH DESIGN PER AMERICAN CONCRETE INSTITUTE.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS SHALL BE FULLY DEVELOPED TO ADEQUATELY SUPPORT THE APPLICABLE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ANY ASSOCIATED CONNECTIONS. FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE CONNECTIONS, STEEL CONNECTIONS, AND ASSOCIATED MATERIALS SHALL BE FULLY DEVELOPED TO ADEQUATELY SUPPORT THE APPLICABLE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ANY ASSOCIATED CONNECTIONS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENTS REQUIRED TO SUPPORT THE APPLICABLE LOADS.
- INDUSTRIAL/UTILITY PROVIDER UNDER THIS STAMP AND SEAL, IS THE ONLY PROVIDER FOR EQUIPMENT INFORMATION ON THESE DRAWINGS. BEFORE ANY PROPOSED BUILDING CONFIGURATION AND ANCHOR LAYOUT NOT SHOWN HEREIN, THE CONTRACTOR SHALL CONSULT WITH THE INDUSTRY/UTILITY PROVIDER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL REQUIREMENTS FOR THE ANCHOR LAYOUT.

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A400 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

DATE: _____


SCALE: _____

PROJECT: _____

DRAWING NO.: **SM-1-xx-xx**

PILOT SCALE: **A-1**

PAGE NO. 1 OF 2



ANCHOR MOUNTED WITH HILTI KWIK BOLTS PATTERN

DATE: _____

SCALE: _____


PROJECT: _____

DRAWING NO.: **SM-1-xx-xx**

PILOT SCALE: **A-1**

PAGE NO. 2 OF 2

ROOF ANCHOR MOUNTED WITH 8 HILTI KWIK BOLTS



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SUMMIT STANDARD - NORMAL WEIGHT CONCRETE

MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (TL)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	HOLE SPACING (Hs)	TUBE TO BASE WELD SIZE (Wb)	HILTI KWIK BOLT TZ (Hs)	PSI + MIN SLAB THICKNESS (Sh)	MIN. EFFECTIVE EMBEDMENT DEPTH (He)	MIN. EDGE DISTANCE (Ee)	BOLT EDGE DISTANCE (Eb)
SM-1-18-1/2-2-34-04	1/2"	2"	3/4" O.D. SCH.40, x 216"	18" x 18" x 1/2"	8"	1/4"	1/2" Ø X 5"	3000-4,00"	2"	18"	34"
SM-1-12-4-12-05	5/8"	4"	3/4" O.D. SCH.40, x 216"	12" x 12" x 1/2"	5"	1/4"	1/2" Ø X 4-1/2"	/	2"	20"	1"
SM-1-18-12-12-05	5/8"	12"	3/4" O.D. SCH.40, x 216"	18" x 18" x 1/2"	6"	1/4"	1/2" Ø X 4-1/2"	/	2"	32"	3"
SM-1-24-18-58-05	5/8"	18"	3/4" O.D. SCH.80, x 300"	24" x 24" x 1/2"	6"	1/8"	1/2" Ø X 4-1/2"	/	2"	48"	6"

SUMMIT STANDARD - LIGHT WEIGHT CONCRETE

MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (TL)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	HOLE SPACING (Hs)	TUBE TO BASE WELD SIZE (Wb)	HILTI KWIK BOLT TZ (Hs)	PSI + MIN SLAB THICKNESS (Sh)	MIN. EFFECTIVE EMBEDMENT DEPTH (He)	MIN. EDGE DISTANCE (Ee)	BOLT EDGE DISTANCE (Eb)
SM-1-16-4-12-05	5/8"	4"	3/4" O.D. SCH.40, x 216"	16" x 16" x 1/2"	6"	1/4"	1/2" Ø X 4-1/2"	/	2"	20"	1"
SM-1-20-12-12-05	5/8"	12"	3/4" O.D. SCH.40, x 216"	20" x 20" x 1/2"	6"	1/4"	1/2" Ø X 4-1/2"	/	2"	41"	1"
SM-1-24-18-58-05	5/8"	18"	3/4" O.D. SCH.80, x 300"	25" x 25" x 1/2"	6"	1/8"	1/2" Ø X 4-1/2"	/	2"	82"	3-1/2"

SM-1-8-12-12-06



DATE: _____

SCALE: _____

PROJECT: _____

DRAWING NO.: **SM-1-xx-xx**

PILOT SCALE: **A-2**

PAGE NO. 1 OF 2

DATE: _____

SCALE: _____


PROJECT: _____

DRAWING NO.: **SM-1-xx-xx**

PILOT SCALE: **A-2**

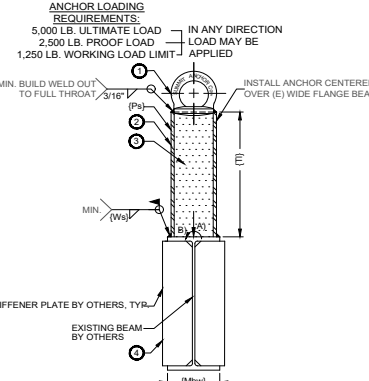
PAGE NO. 2 OF 2

SM-4 Series - Weld-On Anchor



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT



MIN. BUILD WELD OUT TO FULL THROAT
INSTALL ANCHOR CENTERED OVER (B) WIDE FLANGE BEAM

MIN. (W_{SL})
MIN. (P_S)
MIN. (M_{BW})

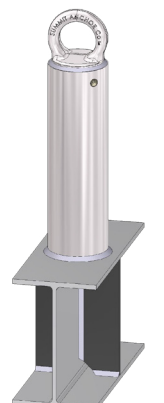
STIFFENER PLATE BY OTHERS, TYP.
EXISTING BEAM BY OTHERS

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ENSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
2. WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - a) 1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - b) 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - c) 5,000 LB. ULTIMATE LOAD (MAX LOAD WITHOUT PERMANENT DEFORMATION)
3. THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE, SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (e.g. SEE IWCA-14.1 WINDOW CLEANING SAFETY STANDARD).
4. PROVIDE INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
5. ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, TORSION AND AXIAL FORCES ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDE VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, DETAILING LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
6. ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY CHC, IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

ROOF ANCHOR - WELD TO BEAM
SUMMIT MODEL #: SM-4-XX-XX

1. SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
2. (PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS AS REQUIRED FOR APPLICATION.
3. SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
4. BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR




ANCHOR VIEW

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES ARE 1035
- ALL TUBES: ASTM A500 GR C
- ALL WELDS: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

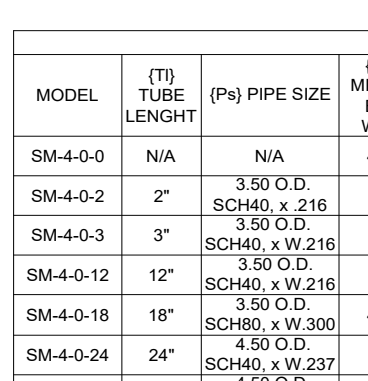
MODEL	(T) TUBE LENGTH	(Ps) PIPE SIZE	(Mbw) MINIMUM BEAM WIDTH	(Bp) PLATE SIZE	(W) WELD HSS TO BASE	(A) KIPS	(B) KIP-IN
SM-4-0-0	N/A	N/A	4-1/2"	8"	8"	5	4.0
SM-4-0-2	2"	3.50 O.D. SCH40, x .216	4"	8"	8"	5	26.3
SM-4-0-3	3"	3.50 O.D. SCH40, x W.216	4"	8"	8"	5	7.8
SM-4-0-12	12"	3.50 O.D. SCH40, x W.216	4"	8"	8"	5	19
SM-4-0-18	18"	3.50 O.D. SCH80, x W.300	4-1/8"	8"	8"	5	26.5
SM-4-0-24	24"	4.50 O.D. SCH40, x W.237	5"	8"	8"	5	34.0
SM-4-0-36	36"	4.50 O.D. SCH80, x W.337	5-1/8"	8"	8"	5	49
SM-4-0-45	45"	5.563 O.D. SCH40, x W.258	6-5/16"	8"	8"	5	60.3

MARKETING DRAWING FOR ANCHORS WELDED ON STEEL BEAM
MODEL/PART NUMBER: SM-4-X-X DRAWING NO.: A-1 PLT SCALE: 1:4 PAGE NO. 1 of 2



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT



MIN. BUILD WELD OUT TO FULL THROAT
INSTALL ANCHOR CENTERED OVER (B) WIDE FLANGE BEAM

MIN. (W_{SL})
MIN. (P_S)
MIN. (M_{BW})

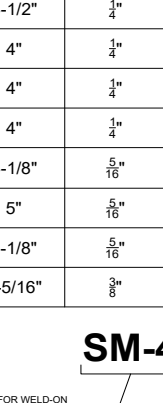
STIFFENER PLATE BY OTHERS, TYP.
EXISTING BEAM BY OTHERS

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ENSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
2. WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - a) 1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - b) 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - c) 5,000 LB. ULTIMATE LOAD (MAX LOAD WITHOUT PERMANENT DEFORMATION)
3. THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE, SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (e.g. SEE IWCA-14.1 WINDOW CLEANING SAFETY STANDARD).
4. PROVIDE INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
5. ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, TORSION AND AXIAL FORCES ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDE VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, DETAILING LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
6. ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY CHC, IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

ROOF ANCHOR - WELD TO BEAM
SUMMIT MODEL #: SM-4-XX-XX

1. SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
2. (PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS AS REQUIRED FOR APPLICATION.
3. SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
4. BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR




ANCHOR VIEW

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES ARE 1035
- ALL TUBES: ASTM A500 GR C
- ALL WELDS: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

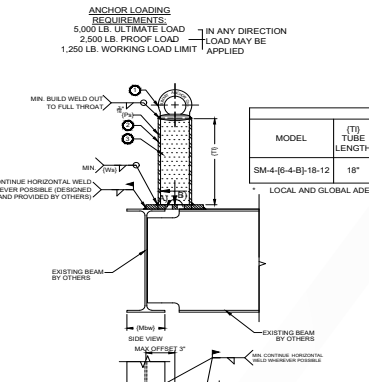
MODEL	(T) TUBE LENGTH	(Ps) PIPE SIZE	(Mbw) MINIMUM BEAM WIDTH	(Bp) PLATE SIZE	(W) WELD HSS TO BASE	(A) KIPS	(B) KIP-IN
SM-4-0-0	N/A	N/A	4-1/2"	8"	8"	5	4.0
SM-4-0-2	2"	3.50 O.D. SCH40, x .216	4"	8"	8"	5	26.3
SM-4-0-3	3"	3.50 O.D. SCH40, x W.216	4"	8"	8"	5	7.8
SM-4-0-12	12"	3.50 O.D. SCH40, x W.216	4"	8"	8"	5	19
SM-4-0-18	18"	3.50 O.D. SCH80, x W.300	4-1/8"	8"	8"	5	26.5
SM-4-0-24	24"	4.50 O.D. SCH40, x W.237	5"	8"	8"	5	34.0
SM-4-0-36	36"	4.50 O.D. SCH80, x W.337	5-1/8"	8"	8"	5	49
SM-4-0-45	45"	5.563 O.D. SCH40, x W.258	6-5/16"	8"	8"	5	60.3

MARKETING DRAWING FOR ANCHORS WELDED ON STEEL BEAM
MODEL/PART NUMBER: SM-4-X-X DRAWING NO.: A-1 PLT SCALE: 1:4 PAGE NO. 2 of 2



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT



MIN. BUILD WELD OUT TO FULL THROAT
INSTALL ANCHOR CENTERED OVER (B) WIDE FLANGE BEAM

MIN. (W_{SL})
MIN. (P_S)
MIN. (M_{BW})

EXISTING BEAM BY OTHERS

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ENSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
2. WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - a) 1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - b) 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - c) 5,000 LB. ULTIMATE LOAD (MAX LOAD WITHOUT PERMANENT DEFORMATION)
3. MATERIAL DESIGNATION:
 - ALL FORGED PAD EYES ARE 1035
 - ALL TUBES: ASTM A500 GR C
 - ALL WELDS: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)
4. THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE, SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (e.g. SEE IWCA-14.1 WINDOW CLEANING SAFETY STANDARD).
5. PROVIDE INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
6. ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, TORSION AND AXIAL FORCES ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDE VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, DETAILING LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
7. ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY SUMMIT ANCHOR, IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

ROOF ANCHOR - WELD TO BEAM AT 3-WAY INTERSECTION
SUMMIT MODEL #: SM-4-X-X-X

1. SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
2. (PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS PER TABLE.
3. SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
4. BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR

MODEL	(T) TUBE LENGTH	HSS TUBE SIZE (Ps)	(Mbw) MINIMUM BEAM WIDTH	(Bp) PLATE SIZE	(W) WELD HSS TO BASE	(A) KIPS	(B) KIP-IN
SM-4-R-4-B-18-12	18"	3.50 O.D. x .300	4-1/2"x4-3/8"x3/8"	5-1/2"	8"	5	107

LOCAL AND GLOBAL ADEQUACY OF EXISTING STRUCTURE SHALL BE VERIFIED BY OTHERS

A) ULTIMATE LOAD (KIP) IN ANY DIRECTION
B) ULTIMATE MOMENT (KIP-IN) IN ANY VERTICAL PLANE

NOTE: HORIZONTAL LOAD AND BENDING MOMENT ACTS SIMULTANEOUSLY ON ANCHOR.


NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ENSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
2. WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - a) 1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - b) 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - c) 5,000 LB. ULTIMATE LOAD (MAX LOAD WITHOUT PERMANENT DEFORMATION)
3. MATERIAL DESIGNATION:
 - ALL FORGED PAD EYES ARE 1035
 - ALL TUBES: ASTM A500 GR C
 - ALL WELDS: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)
4. THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE, SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (e.g. SEE IWCA-14.1 WINDOW CLEANING SAFETY STANDARD).
5. PROVIDE INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
6. ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, TORSION AND AXIAL FORCES ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDE VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, DETAILING LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
7. ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY SUMMIT ANCHOR, IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

NEW ANCHOR AT 3-WAY BEAM INTERSECTION
Scale: N.T.S.

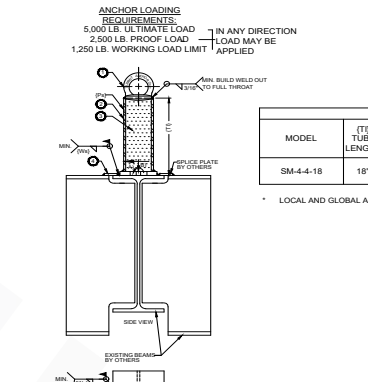
Digital signed by Leoubaine Dumont, Inc. C-ULS, E-Submittal@S40@gmail.com, CHC/Leoubaine Dumont, Release: I am the author of this document. Date: 2021.01.21 11:25:49-0500

Summit Anchor Company Inc.
11730 PLAZA AMERICA DRIVE
MODEL/PART NUMBER: SM-4-R-4-B-18-12 DRAWING NO.: A-1 PLT SCALE: 1:4 PAGE NO. 1 of 1



Summit Anchor Company Inc.
4507 Metropolitan Ct., Suite F, Frederick, MD 21704
Tel: 301.874.4941, Fax: 301.620.9819
Toll Free: 800.372.1098
Web: www.summitanchor.com

ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT



MIN. BUILD WELD OUT TO FULL THROAT
INSTALL ANCHOR CENTERED OVER (B) WIDE FLANGE BEAM

MIN. (W_{SL})
MIN. (P_S)
MIN. (M_{BW})

EXISTING BEAM BY OTHERS

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ENSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
2. WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - a) 1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - b) 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - c) 5,000 LB. ULTIMATE LOAD (MAX LOAD WITHOUT PERMANENT DEFORMATION)
3. MATERIAL DESIGNATION:
 - ALL FORGED PAD EYES ARE 1035
 - ALL TUBES: ASTM A500 GR C
 - ALL WELDS: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)
4. THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE, SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (e.g. SEE IWCA-14.1 WINDOW CLEANING SAFETY STANDARD).
5. PROVIDE INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
6. ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, TORSION AND AXIAL FORCES ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDE VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, DETAILING LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
7. ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY SUMMIT ANCHOR, IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

ROOF ANCHOR - WELD TO BEAM AT 4-WAY INTERSECTION
SUMMIT MODEL #: SM-4-X-X-X

1. SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
2. (PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS PER TABLE.
3. SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
4. RECOMMENDED SPLICE PLATE TO BE DESIGNED AND PROVIDED BY OTHERS

MODEL	(T) TUBE LENGTH	HSS TUBE SIZE (Ps)	(Bp) PLATE SIZE	(Mbw) MINIMUM BEAM WIDTH	(W) WELD HSS TO BASE	(A) KIPS	(B) KIP-IN
SM-4-4-18	18"	3.50 O.D. x .300	4-3/8"x4-3/8"x3/8"	5-1/8"	8"	5	107

LOCAL AND GLOBAL ADEQUACY OF EXISTING STRUCTURE SHALL BE VERIFIED BY OTHERS

A) ULTIMATE LOAD (KIP) IN ANY DIRECTION
B) ULTIMATE MOMENT (KIP-IN) IN ANY VERTICAL PLANE

NOTE: HORIZONTAL LOAD AND BENDING MOMENT ACTS SIMULTANEOUSLY ON ANCHOR.

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ENSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
2. WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - a) 1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - b) 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - c) 5,000 LB. ULTIMATE LOAD (MAX LOAD WITHOUT PERMANENT DEFORMATION)
3. MATERIAL DESIGNATION:
 - ALL FORGED PAD EYES ARE 1035
 - ALL TUBES: ASTM A500 GR C
 - ALL WELDS: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)
4. THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE, SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (e.g. SEE IWCA-14.1 WINDOW CLEANING SAFETY STANDARD).
5. PROVIDE INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
6. ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, TORSION AND AXIAL FORCES ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDE VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, DETAILING LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
7. ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY SUMMIT ANCHOR, IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.


NEW ANCHOR AT 4-WAY BEAM INTERSECTION
Scale: N.T.S.

Digital signed by Leoubaine Dumont, Inc. C-ULS, E-Submittal@S40@gmail.com, CHC/Leoubaine Dumont, Release: I am the author of this document. Date: 2021.01.21 11:25:49-0500

Summit Anchor Company Inc.
11730 PLAZA AMERICA DRIVE
MODEL/PART NUMBER: SM-4-4-18 DRAWING NO.: A-1 PLT SCALE: 1:4 PAGE NO. 1 of 1

APPLICATION VARIES FOR STRENGTHENING BEAMS FOR LOADS IMPOSED BY ANCHORS. CONSULT WITH PROJECT ENGINEER.

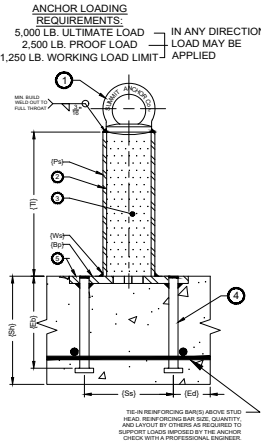
SM-5 Series - 4 Stud CIP Pattern Anchor



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Tel: 301.874.4941, Fax: 301.620.9819
Toll Free: 800.372.1098 Web: www.summitanchor.com

"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT

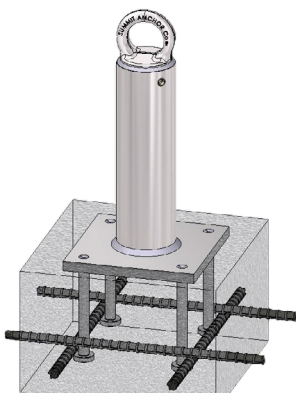


NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPLETE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - 1) 5,000 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - 2) 2,500 LB. PROOF LOAD (TEST LOAD WITH NO PERMANENT DEFORMATION)
 - 3) 1,250 LB. ULTIMATE LOAD (MAX LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXTENSIVE EXPERIENCE AND EQUIPMENT. ADDITIONAL ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (e.g. TEST FROM THE WINDOW CLEANING SAFETY STANDARDS).
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
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- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY DHC, INC. IS FOR EQUIPMENT DESIGN ONLY ON THESE AND ANY OTHER INFORMATION ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

ROOF ANCHOR CAST IN PLACE
SUMMIT MODEL# SM-5-XX-XX

- SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE:** HEIGHT, DIAMETER, AND THICKNESS AS REQUIRED FOR APPLICATION.
- SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION INJECTED INSIDE H.S.S. TUBE REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- SM-STUD:** 3/4" Ø NELSON STUDS, WELDED TO BASE PLATE, TOP AND BOTTOM.
- SM-PLT:** BASE PLATE SIZED AS REQUIRED FOR APPLICATION.



MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

MODEL	TUBE LENGTH (TL)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	STUD SPACING (Ss)	TUBE TO BASE WELD SIZE (Ws)	MIN. EMBEDMENT DEPTH (Eb)	MIN. SLAB THICKNESS (Sh)	MIN. EDGE DISTANCE (Ed)
SM-5-8-0-12-06	5/8"	0"	N/A	6"	N/A	4,000-2.50" 5,000-2.50" 6,000-2.50"	4,000-4.00" 5,000-4.00" 6,000-4.00"	12"
SM-5-8-12-12-06	5/8"	12"	3/2" O.D. SCH.40, x .216"	6"	3/8"	4,000-4.25" 5,000-4.75" 6,000-3.75"	4,000-5.00" 5,000-4.75" 6,000-4.50"	13"
SM-5-8-15-58-06	5/8"	15"	3/2" O.D. SCH.80, x .300"	6"	3/8"	4,000-5.50" 5,000-5.00" 6,000-4.75"	4,000-6.25" 5,000-5.75" 6,000-5.50"	12"
SM-5-8-18-58-06	5/8"	18"	3/2" O.D. SCH.80, x .300"	6"	3/8"	4,000-5.50" 5,000-5.00" 6,000-4.75"	4,000-6.25" 5,000-5.75" 6,000-5.50"	12"
SM-5-10-18-58-06	5/8"	18"	4/2" O.D. SCH.40, x .237"	8"	3/8"	4,000-4.00" 5,000-3.75" 6,000-3.50"	4,000-5.00" 5,000-4.50" 6,000-4.25"	13"
SM-5-10-22-58-06	5/8"	22"	4/2" O.D. SCH.40, x .237"	8"	3/8"	4,000-5.25" 5,000-4.75" 6,000-4.25"	4,000-6.00" 5,000-5.50" 6,000-5.25"	12"
SM-5-10-24-58-06	5/8"	24"	4/2" O.D. SCH.40, x .237"	8"	3/8"	4,000-5.00" 5,000-4.50" 6,000-4.00"	4,000-6.00" 5,000-5.50" 6,000-5.50"	12"
SM-5-12-36-34-06	5/8"	36"	4/2" O.D. SCH.80, x .337"	13"	3/8"	5,000-4.50" 6,000-4.00" 8,000-4.00"	5,000-5.50" 6,000-5.00" 8,000-5.00"	12"
SM-5-12-45-78-07	3/4"	45"	4/2" O.D. SCH.80, x .337"	14"	3/8"	5,000-5.53" 5,000-4.75" 6,000-4.50"	4,000-6.50" 5,000-5.50" 6,000-5.50"	12"


EFFECTIVE EMBEDMENT DEPTH IS CONSIDERED AS THE DISTANCE FROM TOP OF CONCRETE SLAB AND BASE PLATE TO WHERE THE HEAD AND NECK OF THE WELDED STUD MEET. DEPTHS ARE SHOWN FOR NORMALWEIGHT CONCRETE DECKS WITH VARIOUS PSI STRENGTH. JURISDICTION, FED OSHA, FACTOR OF SAFETY OF 4:1

LEGAL AND GLOBAL ADEQUACY OF EXISTING DECK STRUCTURE SHALL BE VERIFIED BY OTHERS

ANCHOR 3D VIEW

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MARKETING DRAWING FOR ANCHORS CAST IN PLACE WITH STUDS
DRAWING NO. **SM-5-xx-xx** PLOT SCALE: 1:1
PAGE NO. **A-1**



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"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

ROOF ANCHOR CAST IN PLACE
SUMMIT MODEL# SM-5-XX-XX

SUMMIT STANDARD

MODEL	TUBE LENGTH (TL)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	STUD SPACING (Ss)	TUBE TO BASE WELD SIZE (Ws)	MIN. EMBEDMENT DEPTH (Eb)	MIN. SLAB THICKNESS (Sh)	MIN. EDGE DISTANCE (Ed)
SM-5-8-0-12-06	5/8"	0"	N/A	6"	N/A	4,000-2.50" 5,000-2.50" 6,000-2.50"	4,000-4.00" 5,000-4.00" 6,000-4.00"	12"
SM-5-8-12-12-06	5/8"	12"	3/2" O.D. SCH.40, x .216"	6"	3/8"	4,000-4.25" 5,000-4.75" 6,000-3.75"	4,000-5.00" 5,000-4.75" 6,000-4.50"	13"
SM-5-8-15-58-06	5/8"	15"	3/2" O.D. SCH.80, x .300"	6"	3/8"	4,000-5.50" 5,000-5.00" 6,000-4.75"	4,000-6.25" 5,000-5.75" 6,000-5.50"	12"
SM-5-8-18-58-06	5/8"	18"	3/2" O.D. SCH.80, x .300"	6"	3/8"	4,000-5.50" 5,000-5.00" 6,000-4.75"	4,000-6.25" 5,000-5.75" 6,000-5.50"	12"
SM-5-10-18-58-06	5/8"	18"	4/2" O.D. SCH.40, x .237"	8"	3/8"	4,000-4.00" 5,000-3.75" 6,000-3.50"	4,000-5.00" 5,000-4.50" 6,000-4.25"	13"
SM-5-10-22-58-06	5/8"	22"	4/2" O.D. SCH.40, x .237"	8"	3/8"	4,000-5.25" 5,000-4.75" 6,000-4.25"	4,000-6.00" 5,000-5.50" 6,000-5.25"	12"
SM-5-10-24-58-06	5/8"	24"	4/2" O.D. SCH.40, x .237"	8"	3/8"	4,000-5.00" 5,000-4.50" 6,000-4.00"	4,000-6.00" 5,000-5.50" 6,000-5.50"	12"
SM-5-12-36-34-06	5/8"	36"	4/2" O.D. SCH.80, x .337"	13"	3/8"	5,000-4.50" 6,000-4.00" 8,000-4.00"	5,000-5.50" 6,000-5.00" 8,000-5.00"	12"
SM-5-12-45-78-07	3/4"	45"	4/2" O.D. SCH.80, x .337"	14"	3/8"	5,000-5.53" 5,000-4.75" 6,000-4.50"	4,000-6.50" 5,000-5.50" 6,000-5.50"	12"

EFFECTIVE EMBEDMENT DEPTH IS CONSIDERED AS THE DISTANCE FROM TOP OF CONCRETE SLAB AND BASE PLATE TO WHERE THE HEAD AND NECK OF THE WELDED STUD MEET. DEPTHS ARE SHOWN FOR NORMALWEIGHT CONCRETE DECKS WITH VARIOUS PSI STRENGTH. JURISDICTION, FED OSHA, FACTOR OF SAFETY OF 4:1

LEGAL AND GLOBAL ADEQUACY OF EXISTING DECK STRUCTURE SHALL BE VERIFIED BY OTHERS


SM-5-8-18-58-06

- FOR CONNECTION
- PLATE SIZE APPLICATION
- TUBE LENGTH
- PLATE THICKNESS
- STUD SIZE

MODEL	TUBE LENGTH (TL)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	STUD SPACING (Ss)	TUBE TO BASE WELD SIZE (Ws)	MIN. EMBEDMENT DEPTH (Eb)	MIN. SLAB THICKNESS (Sh)	MIN. EDGE DISTANCE (Ed)
SM-5-8-18-58-06	5/8"	18"	3/2" O.D. SCH.80, x .300"	6"	3/8"	4,000-5.50" 5,000-5.00" 6,000-4.75"	4,000-6.25" 5,000-5.75" 6,000-5.50"	12"

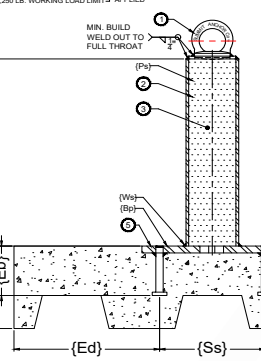
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MARKETING DRAWING FOR ANCHORS CAST IN PLACE WITH STUDS
DRAWING NO. **SM-5-xx-xx** PLOT SCALE: 1:1
PAGE NO. **A-2**



Summit Anchor Co., Inc.
4507 Metropolitan Ct., Suite F, Frederick, MD 21704
Tel: 301.874.4941, Fax: 301.620.9819
Toll Free: 800.372.1098
Web: www.summitanchor.com

ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT



DESIGN GUIDELINES:

- ANCHORS ARE DESIGNED IN ACCORDANCE WITH FEDERAL BUILDING REGULATIONS, INCLUDING WINDING SCHEDULE "A" AND THE 14 WINDING SCHEDULE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - 1) 5,000 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - 2) 2,500 LB. PROOF LOAD (TEST LOAD WITH NO PERMANENT DEFORMATION)
 - 3) 1,250 LB. ULTIMATE LOAD
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXTENSIVE EXPERIENCE AND EQUIPMENT. ADDITIONAL ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (e.g. TEST FROM THE WINDOW CLEANING SAFETY STANDARDS).
- THE ANCHOR OR OWNER SHALL BE RESPONSIBLE FOR THE APPLICABLE LOADS INDICATED ON THE DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING MOMENTS, SHEAR FORCES, AND AXIAL FORCES ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE LOADS INDICATED ON THE DRAWING FOR THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN FLOOR, ELEVATOR SHAFT INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FLEED CORRIDORS, SERVICE ELEVATORS, STAIRS, MECHANICAL ROOMS, CONCRETE CURBS, STRENGTH REINFORCING STEEL, DETAILING, LOCALIZED STEEL, STEPPERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY DHC, INC. IS FOR EQUIPMENT DESIGN ONLY ON THESE AND ANY OTHER INFORMATION ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

ROOF ANCHOR CAST IN PLACE
SUMMIT MODEL# SM-5-XX-XX
FOR C.I.P. DURING ROOF DECK POUR

- SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE:** HEIGHT, DIAMETER, AND THICKNESS AS REQUIRED FOR APPLICATION.
- SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION INJECTED INSIDE H.S.S. TUBE REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- SM-STUD:** 3/4" Ø NELSON STUDS, WELDED TO BASE PLATE, TOP AND BOTTOM.
- SM-PLT:** BASE PLATE SIZED AS REQUIRED FOR APPLICATION.

MODEL	TUBE LENGTH (TL)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	STUD SPACING (Ss)	TUBE TO BASE WELD SIZE (Ws)	MIN. EMBEDMENT DEPTH (Eb)	MIN. SLAB THICKNESS (Sh)	MIN. EDGE DISTANCE (Ed)
SM-5-12-29-58	5/8"	29"	4/2" O.D. SCH.40, x .237"	8"	3/8"	4,000-4.50" 5,000-4.25" 6,000-4.00"	4,000-5.50" 5,000-5.25" 6,000-5.00"	12"

EFFECTIVE EMBEDMENT DEPTH IS CONSIDERED AS THE DISTANCE FROM TOP OF CONCRETE SLAB AND BASE PLATE TO WHERE THE HEAD AND NECK OF THE WELDED STUD MEET. DEPTHS ARE SHOWN FOR NORMALWEIGHT CONCRETE DECKS WITH VARIOUS PSI STRENGTH. JURISDICTION, FED OSHA, FACTOR OF SAFETY OF 4:1

LEGAL AND GLOBAL ADEQUACY OF EXISTING DECK STRUCTURE SHALL BE VERIFIED BY OTHERS

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MARKETING DRAWING FOR ANCHORS CAST IN PLACE WITH STUDS
DRAWING NO. **SM-5-12-29-58** PLOT SCALE: 1:1
PAGE NO. **A-1**



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT



DESIGN GUIDELINES:

- ANCHORS ARE DESIGNED IN ACCORDANCE WITH FEDERAL BUILDING REGULATIONS, INCLUDING WINDING SCHEDULE "A" AND THE 14 WINDING SCHEDULE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - 1) 5,000 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - 2) 2,500 LB. PROOF LOAD (TEST LOAD WITH NO PERMANENT DEFORMATION)
 - 3) 1,250 LB. ULTIMATE LOAD
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXTENSIVE EXPERIENCE AND EQUIPMENT. ADDITIONAL ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (e.g. TEST FROM THE WINDOW CLEANING SAFETY STANDARDS).
- THE ANCHOR OR OWNER SHALL BE RESPONSIBLE FOR THE APPLICABLE LOADS INDICATED ON THE DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING MOMENTS, SHEAR FORCES, AND AXIAL FORCES ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE LOADS INDICATED ON THE DRAWING FOR THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN FLOOR, ELEVATOR SHAFT INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FLEED CORRIDORS, SERVICE ELEVATORS, STAIRS, MECHANICAL ROOMS, CONCRETE CURBS, STRENGTH REINFORCING STEEL, DETAILING, LOCALIZED STEEL, STEPPERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY DHC, INC. IS FOR EQUIPMENT DESIGN ONLY ON THESE AND ANY OTHER INFORMATION ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

ROOF ANCHOR CAST IN PLACE
SUMMIT MODEL# SM-5-XX-XX
FOR C.I.P. DURING ROOF DECK POUR

- SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE:** HEIGHT, DIAMETER, AND THICKNESS AS REQUIRED FOR APPLICATION.
- SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION INJECTED INSIDE H.S.S. TUBE REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- SM-STUD:** 3/4" Ø NELSON STUDS, WELDED TO BASE PLATE, TOP AND BOTTOM.
- SM-PLT:** BASE PLATE SIZED AS REQUIRED FOR APPLICATION.

MODEL	TUBE LENGTH (TL)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	STUD SPACING (Ss)	TUBE TO BASE WELD SIZE (Ws)	MIN. EMBEDMENT DEPTH (Eb)	MIN. SLAB THICKNESS (Sh)	MIN. EDGE DISTANCE (Ed)
SM-5-12-29-58	5/8"	29"	4/2" O.D. SCH.40, x .237"	8"	3/8"	4,000-4.50" 5,000-4.25" 6,000-4.00"	4,000-5.50" 5,000-5.25" 6,000-5.00"	12"


EFFECTIVE EMBEDMENT DEPTH IS CONSIDERED AS THE DISTANCE FROM TOP OF CONCRETE SLAB AND BASE PLATE TO WHERE THE HEAD AND NECK OF THE WELDED STUD MEET. DEPTHS ARE SHOWN FOR NORMALWEIGHT CONCRETE DECKS WITH VARIOUS PSI STRENGTH. JURISDICTION, FED OSHA, FACTOR OF SAFETY OF 4:1

LEGAL AND GLOBAL ADEQUACY OF EXISTING DECK STRUCTURE SHALL BE VERIFIED BY OTHERS

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MARKETING DRAWING FOR ANCHORS CAST IN PLACE WITH STUDS
DRAWING NO. **SM-5-xx-xx** PLOT SCALE: 1:1
PAGE NO. **A-2**

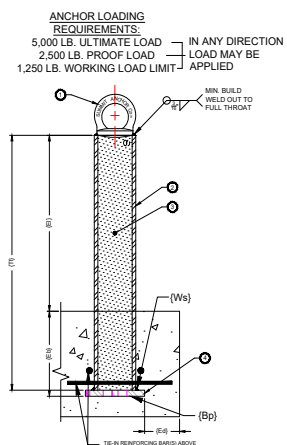
SM-6 Series - Single Pipe CIP Anchor



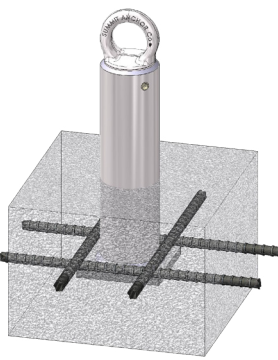
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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT



MIN. BUILD WELD-OUT TO FULL THROAT



ANCHOR 3D VIEW

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
#1 250 LB. WORKING LOAD LIMIT (UNWEIGHTED LOAD)
#2 5,000 LB. PROOF LOAD TEST LOAD (WITHOUT PERMANENT DEFORMATION)
#3 5,000 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (i.e., SEE LOCAL OSHA WINDOW CLEANING SAFETY STANDARDS).
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPARES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THIS DRAWING INCLUDING MOMENTS, SHEAR FORCE, AND AXIAL FORCE (I.E. THE PROJECT ENGINEER OR DESIGNER FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: SHANK TENSILE ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING WELD JOINTS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL DETAILING, LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERS/HANDS WHO PROVIDED UNDER THIS STAMP AND SEAL BY CHIC IS ONLY FOR EQUIPMENT DESIGN DRAWING ON THESE PLANS AND ARE NOT FOR PROPOSED ENGINEERING ASSOCIATED WITH THE DESIGN OF THE BUILDING. ALL THE PROPOSED BUILDING CONSTRUCTION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.


MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

JOB NO.	4507 Metropolitan Ct., Suite F, Frederick, MD 21704
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MARKETING DRAWING FOR ANCHORS CAST IN PLACE WITH SINGLE PLATE	
DRAWING NO.	PLAT SCALE: 1:1
SM-6-xx-xx	A-1 PAGE NO.

ROOF ANCHOR CAST IN PLACE
SUMMIT MODEL# SM-6

- SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE:** HEIGHT, DIAMETER, AND THICKNESS AS REQUIRED FOR APPLICATION.
- SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION INJECTED INSIDE H.S.S. TUBE REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- SM-PLT:** BASE PLATE SIZED AS REQUIRED FOR APPLICATION.



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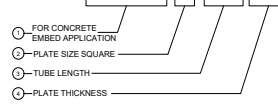
ROOF ANCHOR CAST IN PLACE
SUMMIT MODEL# SM-6

SUMMIT STANDARD ANCHOR MODELS

MODEL #	TUBE LENGTH (Tl)	EXPOSED LENGTH (El)	EMBED DEPTH (Eb)	MIN. SLAB THICKNESS (Ms)	TUBE DIA/SCH. (Ø, SCH.)	BASE PLATE SIZE (Bp)	EDGE DISTANCE (Ed)
SM-6-5-6-12*	6"	1/2"	4,000 PSI - x.xx" 4,500 PSI - x.xx" 5,000 PSI - x.xx" 6,000 PSI - x.xx"	4,000 PSI - x.xx" 4,500 PSI - x.xx" 5,000 PSI - x.xx" 6,000 PSI - x.xx"	3 1/2" O.D. SCH.40, x .216"	5"x5"x2"	14"
SM-6-5-12-12*	12"	6 1/2"	4,000 PSI - 7.00" 4,500 PSI - 7.00" 5,000 PSI - 6.50" 6,000 PSI - 6.00"	4,000 PSI - 7.50" 4,500 PSI - 7.50" 5,000 PSI - 7.00" 6,000 PSI - 6.50"	3 1/2" O.D. SCH.40, x .216"	5"x5"x2"	14"
SM-6-5-18-12	18"	12 1/2"	4,000 PSI - 7.50" 4,500 PSI - 7.00" 5,000 PSI - 7.00" 6,000 PSI - 6.00"	4,000 PSI - 8.00" 4,500 PSI - 8.00" 5,000 PSI - 7.50" 6,000 PSI - 6.50"	3 1/2" O.D. SCH.40, x .216"	5"x5"x2"	14"
SM-6-5-24-12	24"	18 1/2"	4,000 PSI - 8.00" 4,500 PSI - 8.00" 5,000 PSI - 7.50" 6,000 PSI - 7.00"	4,000 PSI - 8.50" 4,500 PSI - 8.00" 5,000 PSI - 8.00" 6,000 PSI - 7.50"	4 1/2" O.D. SCH.40, x .237"	6"x6"x2"	24"
SM-6-6-30-12	30"	23 1/2"	4,000 PSI - 9.50" 4,500 PSI - 9.50" 5,000 PSI - 8.50" 6,000 PSI - 8.00"	4,000 PSI - 10.00" 4,500 PSI - 10.00" 5,000 PSI - 9.00" 6,000 PSI - 8.50"	4 1/2" O.D. SCH.40, x .237"	6"x6"x2"	30"
SM-6-6-38-12	38"	28 1/2"	6,000 PSI - 10.00"	6,000 PSI - 12.00"	4 1/2" O.D. SCH.80, x .337"	6"x6"x2"	14"
SM-6-6-49-12	49"	39 1/2"	6,000 PSI - 10.00"	6,000 PSI - 12.00"	4 1/2" O.D. SCH.80, x .337"	6"x6"x2"	20"

SM-6-5-6-12, EXPOSED LENGTH IS MINIMAL VERIFY FLASHING CONDITION IF REQUIRED.


SM-6-5-18-12



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MARKETING DRAWING FOR ANCHORS CAST IN PLACE WITH SINGLE PLATE	
DRAWING NO.	PLAT SCALE: 1:1
SM-6-xx-xx	A-1 PAGE NO.

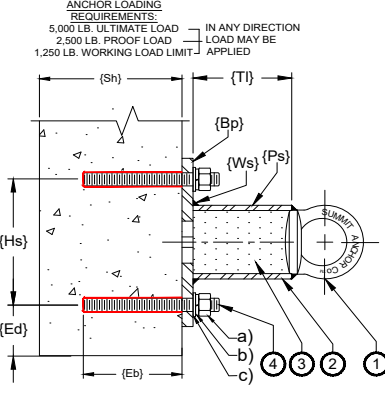
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MARKETING DRAWING FOR ANCHORS CAST IN PLACE WITH SINGLE PLATE	
DRAWING NO.	PLAT SCALE: 1:1
SM-6-xx-xx	A-1 PAGE NO.

SM-81 Series - 2 Bolt Pattern Anchor



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT




NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
c) 5,000 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (i.e., SEE NICH 14-1 WINDOW CLEANING SAFETY STANDARD).
- THE ADHESIVE OR EPOXY SHALL BE RATED FOR THE DYNAMIC LOADS BY THE PARTNER MANUFACTURER. A PROFESSIONAL ENGINEER SHALL SPECIFY THE PARTNERS FOR THE ATTACHMENT OF THE ANCHORS TO THE STRUCTURE IN ACCORDANCE WITH STRUCTURAL DESIGN PER APPLICABLE CONCRETE CODES.
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLEX WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING MOMENT, SHEAR, TORSION AND AXIAL FORCES. ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS. FIELD CONNECTION DETAILS INCLUDING ANY FELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, DETAILING LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY DHC IS ONLY FOR EQUIPMENT DESIGN DOWN ON THESE PLANS AND NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES. THIS IS NOT BEING REVIEWED EQUIPMENT IS ANALYSIS FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)




ANCHOR 30 VIEW

Summit Anchor Co. Frederick, MD 21704
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MARKETING DRAWING FOR MOUNTED ANCHORS OR WALL WITH EPOXY FASTENERS
DRAWING NO. **SM-81-xx-xx** REV. SCALE: 1:1 PAGE NO. **A-1**

ANCHOR MOUNTED WITH 2 EPOXY FASTENERS

- SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE:** HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.
- SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION.
- SM-TRA-ADH:** 5/8"Ø or 3/4"Ø 304 B8 CHISEL TIPPED STAINLESS STEEL THREADED RODS
a) F 594 HEX NUT
b) 19-B STAINLESS STEEL LOCK WASHER
c) F 436 HARDENER GALVANIZED FLAT WASHER
SM-EPX-RE-500: HILT-RE-500 V3 EPOXY ADHESIVE. INSTALLATION PER ESR-3814



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ANCHOR MOUNTED WITH 2 EPOXY FASTENERS

- SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE:** HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.
- SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION.
- SM-TRA-ADH:** 5/8"Ø or 3/4"Ø 304 B8 CHISEL TIPPED STAINLESS STEEL THREADED RODS
a) F 594 HEX NUT
b) 19-B STAINLESS STEEL LOCK WASHER
c) F 436 HARDENER GALVANIZED FLAT WASHER
SM-EPX-RE-500: HILT-RE-500 V3 EPOXY ADHESIVE. INSTALLATION PER ESR-3814

SUMMIT STANDARD EPOXY MOUNTED ANCHOR


MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (Tl)	PIPE SIZE (P.S.)	(W) TUBE TO BASE WELD SIZE	(B) BASE PLATE SIZE	(S) STUD SPACING	MIN EMBED DEPTH (Ed)	MIN SLAB THICKNESS (Ms)	HAS ROD DESCRIPTION	MIN. EDGE DISTANCE (Ed)
SM-81-(8-4)-X-12-06	5/8"	0"	N/A	N/A	8" X 4" X 1/2"	6"	6,000 PSI - 4,500	4,000 PSI - 6.00"	1/2" X 7/8"	16"
SM-81-8-4-12-06	5/8"	4-1/2"	3/4" O.D. SCH.40, x. 2.16"	1/2"	8" X 8" X 1/2"	6"	3,500 PSI - 5.625	3,000 PSI - 7.75"	1/2" X 7/8"	18"
SM-81-8-4-12-06	5/8"	4-1/2"	3/4" O.D. SCH.40, x. 2.16"	1/2"	8" X 8" X 1/2"	6"	4,000 PSI - 5.25	4,000 PSI - 6.75"	1/2" X 7/8"	18"
SM-81-8-4-12-06	5/8"	4-1/2"	3/4" O.D. SCH.40, x. 2.16"	1/2"	8" X 8" X 1/2"	6"	4,500 PSI - 5.00	4,500 PSI - 6.50"	1/2" X 7/8"	18"
SM-81-8-4-12-06	5/8"	4-1/2"	3/4" O.D. SCH.40, x. 2.16"	1/2"	8" X 8" X 1/2"	6"	5,000 PSI - 5.00	5,000 PSI - 6.50"	1/2" X 7/8"	16"
SM-81-8-4-12-06	5/8"	4-1/2"	3/4" O.D. SCH.40, x. 2.16"	1/2"	8" X 8" X 1/2"	6"	6,000 PSI - 5.00	6,000 PSI - 6.50"	1/2" X 7/8"	13"
SM-81-8-4-12-07	3/4"	4-1/2"	3/4" O.D. SCH.40, x. 2.16"	1/2"	8" X 8" X 1/2"	5"	3,000 PSI - 6.00	3,000 PSI - 8"	1/2" X 9/8"	22"
SM-81-(8-4)-X-12-06	5/8"	0"	N/A	1/2"	10" X 4" X 1/2"	8"	4,000 PSI - 4.75	4,000 PSI - 12"	1/2" X 7/8"	18"
SM-81-10-12-34-07	3/4"	12"	3/4" O.D. SCH.80, x. 300"	3/8"	10" X 10" X 3/4"	7"	6,000 PSI - 6.25	6,000 PSI - 8"	1/2" X 9/8"	15"
SM-81-10-13-34-07	3/4"	13"	3/4" O.D. SCH.80, x. 300"	3/8"	10" X 10" X 3/4"	7"	6,000 PSI - 7.00	6,000 PSI - 9"	1/2" X 9/8"	13"

SM-81-8-12-58-V-06

- Ø - 2 BOLT PATTERN
- Ø - PLATE SIZE
- Ø - TUBE LENGTH
- Ø - PLATE THICKNESS
- Ø - EYE ORIENTATION
- Ø - HOLE SIZE

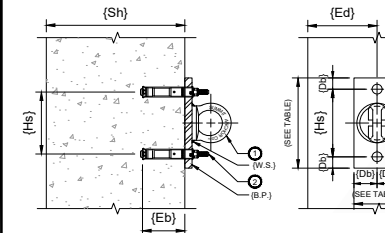
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MARKETING DRAWING FOR MOUNTED ANCHORS OR WALL WITH EPOXY FASTENERS
DRAWING NO. **SM-81-xx-xx** REV. SCALE: 1:1 PAGE NO. **A-2**



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT

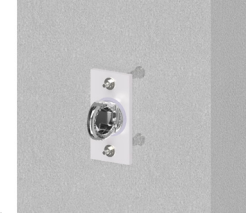


NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
c) 5,000 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (i.e., SEE NICH 14-1 WINDOW CLEANING SAFETY STANDARD).
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLEX WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING MOMENT, SHEAR, TORSION AND AXIAL FORCES. ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS. FIELD CONNECTION DETAILS INCLUDING ANY FELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, DETAILING LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- POST INSTALLED ANCHOR HOLES SHALL BE DRILLED, CLEANED, AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY DHC IS ONLY FOR EQUIPMENT DESIGN DOWN ON THESE PLANS AND NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES. THIS IS NOT BEING REVIEWED EQUIPMENT IS ANALYSIS FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)



ANCHOR 30 VIEW


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MARKETING DRAWING FOR MOUNTED ANCHORS OR WALL WITH UNDERCUT FASTENERS
DRAWING NO. **SM-81-X-X-X** REV. SCALE: 1:1 PAGE NO. **A-1**

WALL ANCHOR MOUNTED WITH UNDERCUT FASTENERS

SUMMIT MODEL #: SM-81 ROOF/WALL ANCHOR

- SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- SM-HDA-TF M10X100/20** - ITEM 331545: SHERARDIZED ZINC COATING HAS EQUIVALENT CORROSION RESISTANCE TO HOT-DIP GALVANIZATION. INSTALLATION PER ESR-1546.



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WALL ANCHOR MOUNTED WITH UNDERCUT FASTENERS

SUMMIT MODEL #: SM-81 ROOF/WALL ANCHOR

- SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- SM-HDA-TF M10X100/20** - ITEM 331545: SHERARDIZED ZINC COATING HAS EQUIVALENT CORROSION RESISTANCE TO HOT-DIP GALVANIZATION. INSTALLATION PER ESR-1546.

SUMMIT STANDARD

MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (Tl)	PIPE SIZE (P.S.)	WELD SIZE (W.S.)	MIN SLAB/WALL THICKNESS (Sh)	CONCRETE PSI	MIN. BASE PLATE SIZE (B.P.)	HOLE SPACING (Hs)	MIN. EMBEDMENT (Ed)	MIN. EDGE DISTANCE (Ed)	MIN. EDGE DISTANCE (Edw)	MIN. BOLT EDGE DISTANCE (Ed)	
SM-81-(8X4)-0-58-07	7/8"	N/A	N/A	1/2"	7.5"	3,000	8"x4"x8"	5.5"	3-15/16"	10"	16"	1.25"	
							4,000	8"x4"x8"	5.5"	3-15/16"	6"	12"	1.25"
							5,000	8"x4"x8"	5.5"	3-15/16"	6"	12"	1.25"
SM-81-(8X5)-0-58-07	7/8"	N/A	N/A	1/2"	7.5"	3,000	9"x5"x8"	6.5"	3-15/16"	6"	12"	1.25"	
							4,000	9"x5"x8"	6.5"	3-15/16"	6"	12"	1.25"
							5,000	9"x5"x8"	6.5"	3-15/16"	6"	12"	1.25"
SM-81-10-0-75-58-07	7/8"	0.75"	3/4" O.D. SCH.40, x. 2.16"	1/2"	7.5"	3,000	10"x10"x8"	7.5"	3-15/16"	12"	12"	1.25"	
							4,000	10"x10"x8"	7.5"	3-15/16"	12"	12"	1.25"
							6,000	10"x10"x8"	7.5"	3-15/16"	12"	12"	1.25"
SM-81-10-6-58-07	7/8"	6"	3/4" O.D. SCH.40, x. 2.16"	1/2"	7.5"	3,000	10"x10"x8"	7.5"	3-15/16"	20"	20"	1.25"	
							4,000	10"x10"x8"	7.5"	3-15/16"	12"	12"	1.25"
							5,000	10"x10"x8"	7.5"	3-15/16"	12"	12"	1.25"

SM-81-8-12-58-V-06


- Ø - 2 BOLT PATTERN
- Ø - PLATE SIZE
- Ø - TUBE LENGTH
- Ø - PLATE THICKNESS
- Ø - EYE ORIENTATION
- Ø - HOLE SIZE

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MARKETING DRAWING FOR MOUNTED ANCHORS OR WALL WITH UNDERCUT FASTENERS
DRAWING NO. **SM-81-X-X-X** REV. SCALE: 1:1 PAGE NO. **A-2**

WALL ANCHOR BOLTED THROUGH CONCRETE WALL

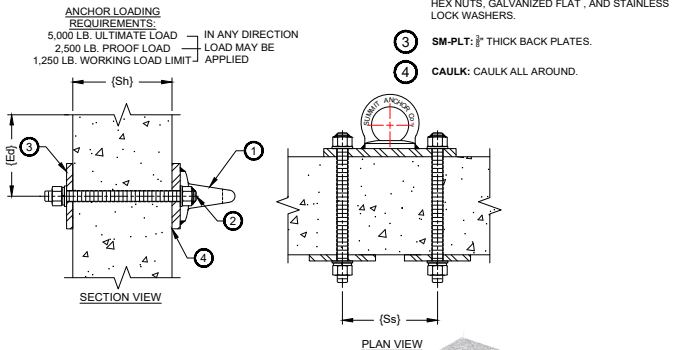
SUMMIT MODEL #: SM-81



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT



ANCHOR 3D VIEW

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
(1) 2,500 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
(2) 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
(3) 5,000 LB. ULTIMATE LOAD (MAXIMUM LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (i.e. SEE WORK IN A VISIBLE CLEARANCE SAFETY STANDARDS).
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING CORROSION, DESIGN CONSTRUCTION, AND MAINTENANCE ETC. THE PROJECT ENGINEER OR RECORDS FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO, MAIN STRUCTURAL ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, SETBACK LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY DNE, IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOAD ONLY. INTENDED USAGE OR EQUIPMENT IS OUT OF THE SCOPE.

1 SM-81: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.

2 SM-TRA: 5/8"Ø 304 B8 STAINLESS STEEL THREADED RODS WITH STAINLESS STEEL HEAVY HEX NUTS, GALVANIZED FLAT, AND STAINLESS LOCK WASHERS.

3 SM-PLT: 3/8" THICK BACK PLATES.

4 CAULK: CAULK ALL AROUND.

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)


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MARKETING DRAWING FOR THROUGH BOLTED WALL ANCHORS

SM-81-xx-xx A-1 DRAWING NO. **PLT SCALE: 1:1** PAGE NO. **1 of 2**

WALL ANCHOR BOLTED THROUGH CONCRETE WALL

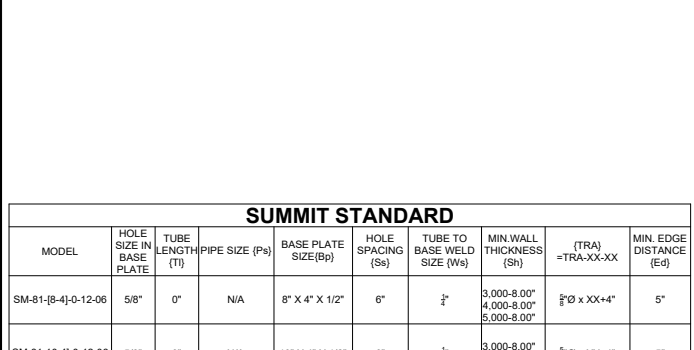
SUMMIT MODEL #: SM-81



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT



ANCHOR 3D VIEW

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
(1) 2,500 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
(2) 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
(3) 5,000 LB. ULTIMATE LOAD (MAXIMUM LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (i.e. SEE WORK IN A VISIBLE CLEARANCE SAFETY STANDARDS).
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING CORROSION, DESIGN CONSTRUCTION, AND MAINTENANCE ETC. THE PROJECT ENGINEER OR RECORDS FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO, MAIN STRUCTURAL ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, SETBACK LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY DNE, IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOAD ONLY. INTENDED USAGE OR EQUIPMENT IS OUT OF THE SCOPE.

1 SM-81: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.

2 SM-TRA: 5/8"Ø 304 B8 STAINLESS STEEL THREADED RODS WITH STAINLESS STEEL HEAVY HEX NUTS, GALVANIZED FLAT, AND STAINLESS LOCK WASHERS.

3 SM-PLT: 3/8" THICK BACK PLATES.

4 CAULK: CAULK ALL AROUND.

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

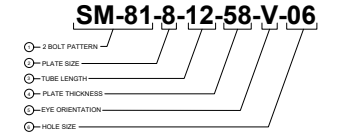
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MARKETING DRAWING FOR THROUGH BOLTED WALL ANCHORS

SM-81-xx-xx A-1 DRAWING NO. **PLT SCALE: 1:1** PAGE NO. **1 of 2**

SUMMIT STANDARD

MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (T)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	HOLE SPACING (Ss)	TUBE TO BASE WELD SIZE (Ws)	MIN WALL THICKNESS (Sh)	(TRA) = TRA-XX-XX	MIN. EDGE DISTANCE (Ed)
SM-81-8-4-0-12-06	5/8"	0"	N/A	8" X 4" X 1/2"	6"	1/2"	3,000-8.00" 4,000-8.00" 5,000-8.00"	5/8"Ø x XX+4"	5"
SM-81-10-4-0-12-06	5/8"	0"	N/A	10" X 4" X 1/2"	6"	1/2"	3,000-8.00" 4,000-8.00" 5,000-8.00"	5/8"Ø x XX+4"	5"




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MARKETING DRAWING FOR THROUGH BOLTED WALL ANCHORS

SM-81-xx-xx A-2 DRAWING NO. **PLT SCALE: 1:1** PAGE NO. **2 of 2**

WALL ANCHOR WRAPPED AROUND STEEL TUBE

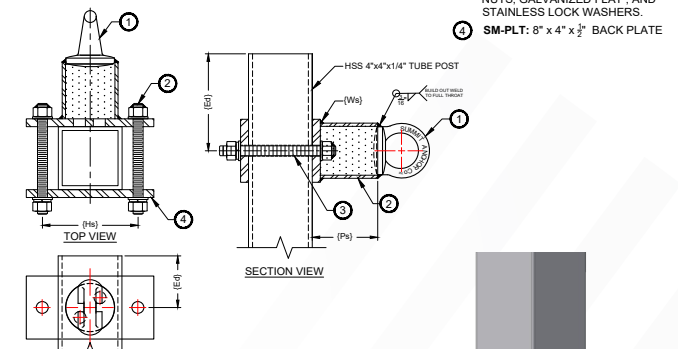
SUMMIT MODEL #: SM-81-XX-XX



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT



ANCHOR 3D VIEW

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
(1) 2,500 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
(2) 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
(3) 5,000 LB. ULTIMATE LOAD (MAXIMUM LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (i.e. SEE WORK IN A VISIBLE CLEARANCE SAFETY STANDARDS).
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING CORROSION, DESIGN CONSTRUCTION, AND MAINTENANCE ETC. THE PROJECT ENGINEER OR RECORDS FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO, MAIN STRUCTURAL ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, SETBACK LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY DNE, IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOAD ONLY. INTENDED USAGE OR EQUIPMENT IS OUT OF THE SCOPE.

1 SM-81: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.

2 HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.

3 SM-TRA: 5/8"Ø 304 B8 STAINLESS STEEL THREADED RODS WITH STAINLESS STEEL HEAVY HEX NUTS, GALVANIZED FLAT, AND STAINLESS LOCK WASHERS.

4 SM-PLT: 8" x 4" x 1/2" BACK PLATE

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)


Summit Anchor Co.
4507 Metropolitan Ct., Suite F, Frederick, MD 21704
Tel: 301.874.4941, Fax: 301.620.9819
Toll Free: 800.372.1098 Web: www.summitanchor.com

MARKETING DRAWING FOR ANCHORS WRAPPED AROUND TUBE

SM-81-xx-xx A-1 DRAWING NO. **PLT SCALE: 1:1** PAGE NO. **1 of 2**

WALL ANCHOR WRAPPED AROUND STEEL TUBE

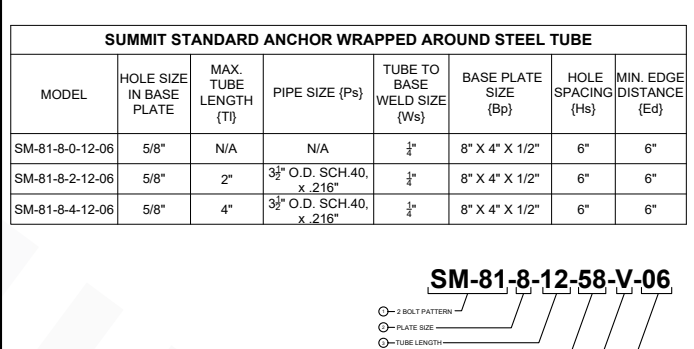
SUMMIT MODEL #: SM-81-XX-XX



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT



ANCHOR 3D VIEW

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
(1) 2,500 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
(2) 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
(3) 5,000 LB. ULTIMATE LOAD (MAXIMUM LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (i.e. SEE WORK IN A VISIBLE CLEARANCE SAFETY STANDARDS).
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING CORROSION, DESIGN CONSTRUCTION, AND MAINTENANCE ETC. THE PROJECT ENGINEER OR RECORDS FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO, MAIN STRUCTURAL ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, SETBACK LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY DNE, IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOAD ONLY. INTENDED USAGE OR EQUIPMENT IS OUT OF THE SCOPE.

1 SM-81: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.

2 HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.

3 SM-TRA: 5/8"Ø 304 B8 STAINLESS STEEL THREADED RODS WITH STAINLESS STEEL HEAVY HEX NUTS, GALVANIZED FLAT, AND STAINLESS LOCK WASHERS.

4 SM-PLT: 8" x 4" x 1/2" BACK PLATE

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

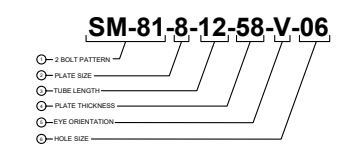
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MARKETING DRAWING FOR ANCHORS WRAPPED AROUND TUBE

SM-81-xx-xx A-1 DRAWING NO. **PLT SCALE: 1:1** PAGE NO. **1 of 2**

SUMMIT STANDARD ANCHOR WRAPPED AROUND STEEL TUBE

MODEL	HOLE SIZE IN BASE PLATE	MAX. TUBE LENGTH (T)	PIPE SIZE (Ps)	TUBE TO BASE WELD SIZE (Ws)	BASE PLATE SIZE (Bp)	HOLE SPACING (Hs)	MIN. EDGE DISTANCE (Ed)
SM-81-8-0-12-06	5/8"	N/A	N/A	1/2"	8" X 4" X 1/2"	6"	6"
SM-81-8-2-12-06	5/8"	2"	3/2" O.D. SCH.40, x .216"	1/2"	8" X 4" X 1/2"	6"	6"
SM-81-8-4-12-06	5/8"	4"	3/2" O.D. SCH.40, x .216"	1/2"	8" X 4" X 1/2"	6"	6"



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MARKETING DRAWING FOR ANCHORS WRAPPED AROUND TUBE

SM-81-xx-xx A-2 DRAWING NO. **PLT SCALE: 1:1** PAGE NO. **2 of 2**

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"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

ANCHOR MOUNTED WITH CIP CAGE

ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT

IN ANY DIRECTION LOAD MAY BE APPLIED

MIN. BUILD WELD OUT TO FULL THROAT

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - 5,000 LB. ULTIMATE LOAD (SEE INSTRUCTIONS)
 - 2,500 LB. PROOF LOAD (SEE INSTRUCTIONS)
 - 1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - 1,250 LB. PROOF LOAD (SEE LOAD WITHOUT PERMANENT DEFORMATION)
 - 5,000 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INTENTALLY PLACED INTO SERVICE (i.e. SEE IWCA 14-1 WINDOW CLEANING SAFETY STANDARD).
- THE ADHESIVE OR EPOXY SHALL BE RATED FOR LIVE, DYNAMIC LOADS BY THE FASTENER MANUFACTURER. A PROFESSIONAL ENGINEER SHALL SPECIFY THE FASTENERS FOR THE ATTACHMENT OF THE ANCHOR TO THE STRUCTURE IN ACCORDANCE WITH STRENGTH DESIGN PER AMERICAN CONCRETE INSTITUTE.
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT CORRELATES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING MOMENT, SHEAR, TORSION, AND AXIAL FORCES ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOADS, CONNECTIONS TO CONCRETE, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL DETAILING, LOCALIZED STEEL STRENGTHS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
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MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

Summit Anchor Co.
MARKETING DRAWING FOR MOUNTED WITH CIP CAGE
DRAWING NO. SM-81-xx-xx A-1 PAGE NO. 1/1

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ANCHOR MOUNTED WITH CIP CAGE

SUMMIT STANDARD

MODEL	TUBE LENGTH (Tl)	PIPE SIZE (Ps)	(Bp) BASE PLATE SIZE	TH. ROD Ø / SPA (Rs)	TUBE TO BASE WELD SIZE (Ws)	MIN. SLAB THICKNESS (Ms)	MIN. EDGE DISTANCE (Ed)	MIN. EDGE DISTANCE (Edw)
SM-1-10-12-58	12"	3 1/2" O.D. SCH.40, x .216"	10"x10"x3/8"	3/8" Ø - 7"	1/2"	4,000-8,000* 5,000-7,000*	12"	14"
SM-1-12-18-58	18"	3 1/2" O.D. SCH.80, x .300"	12"x12"x3/8"	3/8" Ø - 9"	5/8"	4,000-8,000* 5,000-7,000*	12"	14"

Summit Anchor Co.
MARKETING DRAWING FOR MOUNTED WITH CIP CAGE
DRAWING NO. SM-81-xx-xx A-2 PAGE NO. 1/1

SM-85 Series - 2 Bolt Pattern Anchor

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CAST IN PLACE ANCHOR
SUMMIT MODEL #: SM-85

ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT

IN ANY DIRECTION LOAD MAY BE APPLIED

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - 5,000 LB. ULTIMATE LOAD (SEE INSTRUCTIONS)
 - 2,500 LB. PROOF LOAD (SEE INSTRUCTIONS)
 - 1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - 1,250 LB. PROOF LOAD (SEE LOAD WITHOUT PERMANENT DEFORMATION)
 - 5,000 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INTENTALLY PLACED INTO SERVICE (i.e. SEE IWCA 14-1 WINDOW CLEANING SAFETY STANDARD).
- THE ADHESIVE OR EPOXY SHALL BE RATED FOR LIVE, DYNAMIC LOADS BY THE FASTENER MANUFACTURER. A PROFESSIONAL ENGINEER SHALL SPECIFY THE FASTENERS FOR THE ATTACHMENT OF THE ANCHOR TO THE STRUCTURE IN ACCORDANCE WITH STRENGTH DESIGN PER AMERICAN CONCRETE INSTITUTE.
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT CORRELATES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING MOMENT, SHEAR, TORSION, AND AXIAL FORCES ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOADS, CONNECTIONS TO CONCRETE, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL DETAILING, LOCALIZED STEEL STRENGTHS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY OHC IS ONLY FOR EQUIPMENT DESIGN DRAWING OR THESE LOADS AND NO OTHER REPRESENTATIVE DISREGARDING THE EXISTING OR PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

Summit Anchor Co.
MARKETING DRAWING FOR MOUNTED WITH CIP CAGE
DRAWING NO. SM-85-xx-xx A-1 PAGE NO. 1/1

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CAST IN PLACE ANCHOR
SUMMIT MODEL #: SM-85
FOR C.I.P. DURING ROOF DECK POUR

SUMMIT STANDARD EPOXY MOUNTED ANCHOR

MODEL	STUD SIZE	MAX. TUBE LENGTH (Tl)	PIPE SIZE (Ps)	(Ws) TUBE TO BASE WELD SIZE	(Bp) BASE PLATE SIZE	(Ss) STUD SPACING	MIN. EMBED DEPTH (Eb)	MIN. SLAB THICKNESS (Ms)	MIN. EDGE DISTANCE (Edw)	MIN. EDGE DISTANCE (Ed)
SM-85-8-0-12-06	5/8"	0"	N/A	1/2"	8" X 4" X 1/2"	6"	4,000 - 4,000* 5,000 - 3,500* 6,000 - 5,500*	4,000 - 6,000* 5,000 - 6,000* 6,000 - 6,000*	12"	12"
SM-85-8-4-12-06	5/8"	4"	3 1/2" O.D. SCH.40, x .216"	1/2"	8" X 4" X 1/2"	6"	4,000 - 6,75* 5,000 - 6,25* 6,000 - 5,75*	4,000 - 8,000* 5,000 - 8,000* 6,000 - 7,000*	24"	24"
SM-85-10-12-34-06	5/8"	12"	3 1/2" O.D. SCH.40, x .216"	5/8"	10" X 4" X 3/4"	7"	6,000 PSI - 5,500*	6,000 PSI - 7"	15"	15"


SM-85-[8-4]-X-12-V-06

- FOR CONCRETE EMBED APPLICATION
- PLATE SIZE SQUARE
- TUBE LENGTH 1"
- PLATE THICKNESS 1/2"
- EYE ORIENTATION TO HOLE PATTERN
- STUD SIZE

Summit Anchor Co.
MARKETING DRAWING FOR MOUNTED WITH CIP CAGE
DRAWING NO. SM-85-xx-xx A-2 PAGE NO. 1/1



Various Attachment Details provided by Summit Anchor Co.



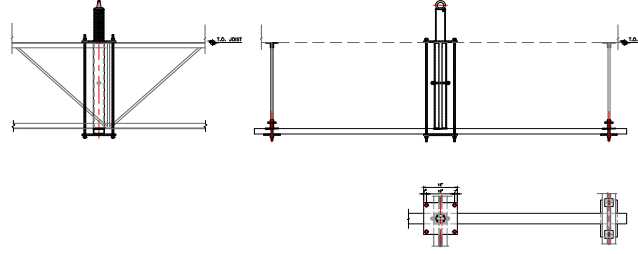
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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT
IN ANY DIRECTION
LOAD MAY BE APPLIED

ANCHOR WRAPPED AROUND STEEL JOIST SM-1 - CUSTOM

- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- SM-TRA-ADH: 5/8"Ø CHISEL TIPPED 304 STAINLESS STEEL HAS-R THREADED RODS
a) F 594 HEX NUT
b) 18-8 STAINLESS STEEL LOCK WASHER
c) 436 HARDENER GALVANIZED FLAT WASHER

BACK PLATE PER APPLICATION



NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:


- ASSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDING PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 5,000 LB. ULTIMATE LOAD (WITHOUT PERMANENT DEFORMATION)
b) 2,500 LB. PROOF LOAD (WITH PERMANENT DEFORMATION)
c) 1,250 LB. WORKING LOAD (WITH PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR ANCHORS TO COMPATIBLE STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. BE FULLY AWARE THAT ANCHORS MUST BE INSTALLED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. IMPROPERLY INSTALLED ANCHORS WILL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE AND WILL BE PROVIDED WITH A MINIMUM CLEARANCE SAFETY FACTOR OF 5.
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, CONCERNING THE ANCHOR AND COMPATIBLE STRUCTURE LOADS AND PERFORMANCE CODES. DESIGN DETAILS AND MATERIALS TO BE USED.
- ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH THEY ARE ATTACHED IS FULLY DESIGNED TO SUPPORT THE ANCHORS AND ALL APPLIED LOADS. THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE TO WHICH IT IS ATTACHED MUST BE DESIGNED TO SUPPORT THE ANCHORS AND ALL APPLIED LOADS. THIS INCLUDES VERTICAL AND HORIZONTAL LOADS, COMBINED BENDING AND COMPRESSION, AND CONSIDERATION OF THE EFFECTS OF WIND, SEISMIC, THERMAL, AND OTHER STRESSORS. STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENTS REQUIRED TO SUPPORT THE ANCHORS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY ENCL. IS ONLY FOR EQUIPMENT DESIGN AND NOT FOR STRUCTURE DESIGN. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING. THE STRUCTURE AND FIELD CONNECTIONS MUST BE DESIGNED TO RESIST THE ANCHORS AND ALL APPLIED LOADS. THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE TO WHICH IT IS ATTACHED MUST BE DESIGNED TO SUPPORT THE ANCHORS AND ALL APPLIED LOADS. THIS INCLUDES VERTICAL AND HORIZONTAL LOADS, COMBINED BENDING AND COMPRESSION, AND CONSIDERATION OF THE EFFECTS OF WIND, SEISMIC, THERMAL, AND OTHER STRESSORS. STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENTS REQUIRED TO SUPPORT THE ANCHORS.

MATERIAL DESIGNATION:

- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 WITH A MINIMUM TENSILE STRENGTH OF 70 KSI

MARKETING DRAWING FOR ANCHORS WRAPPED AROUND STEEL JOISTS

DRAWING NO. **SM-1-XXXX** | PLOT SCALE: 1:1 | PAGE NO. 1 of 1



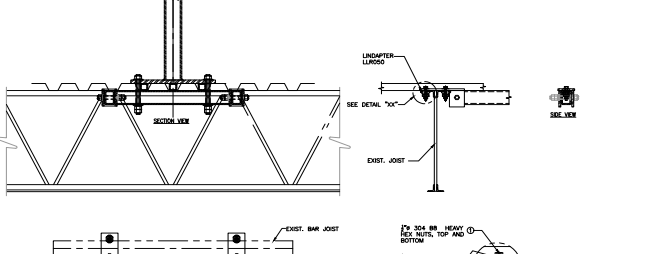
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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT
IN ANY DIRECTION
LOAD MAY BE APPLIED

ANCHOR WRAPPED AROUND STEEL JOIST SM-1 - CUSTOM

- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- SM-TRA-ADH: 5/8"Ø CHISEL TIPPED 304 STAINLESS STEEL HAS-R THREADED RODS
a) F 594 HEX NUT
b) 18-8 STAINLESS STEEL LOCK WASHER
c) 436 HARDENER GALVANIZED FLAT WASHER

BACK PLATE PER APPLICATION



NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:


- ASSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDING PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 5,000 LB. ULTIMATE LOAD (WITHOUT PERMANENT DEFORMATION)
b) 2,500 LB. PROOF LOAD (WITH PERMANENT DEFORMATION)
c) 1,250 LB. WORKING LOAD (WITH PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR ANCHORS TO COMPATIBLE STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. BE FULLY AWARE THAT ANCHORS MUST BE INSTALLED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. IMPROPERLY INSTALLED ANCHORS WILL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE AND WILL BE PROVIDED WITH A MINIMUM CLEARANCE SAFETY FACTOR OF 5.
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, CONCERNING THE ANCHOR AND COMPATIBLE STRUCTURE LOADS AND PERFORMANCE CODES. DESIGN DETAILS AND MATERIALS TO BE USED.
- ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH THEY ARE ATTACHED IS FULLY DESIGNED TO SUPPORT THE ANCHORS AND ALL APPLIED LOADS. THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE TO WHICH IT IS ATTACHED MUST BE DESIGNED TO SUPPORT THE ANCHORS AND ALL APPLIED LOADS. THIS INCLUDES VERTICAL AND HORIZONTAL LOADS, COMBINED BENDING AND COMPRESSION, AND CONSIDERATION OF THE EFFECTS OF WIND, SEISMIC, THERMAL, AND OTHER STRESSORS. STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENTS REQUIRED TO SUPPORT THE ANCHORS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY ENCL. IS ONLY FOR EQUIPMENT DESIGN AND NOT FOR STRUCTURE DESIGN. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING. THE STRUCTURE AND FIELD CONNECTIONS MUST BE DESIGNED TO RESIST THE ANCHORS AND ALL APPLIED LOADS. THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE TO WHICH IT IS ATTACHED MUST BE DESIGNED TO SUPPORT THE ANCHORS AND ALL APPLIED LOADS. THIS INCLUDES VERTICAL AND HORIZONTAL LOADS, COMBINED BENDING AND COMPRESSION, AND CONSIDERATION OF THE EFFECTS OF WIND, SEISMIC, THERMAL, AND OTHER STRESSORS. STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENTS REQUIRED TO SUPPORT THE ANCHORS.

MATERIAL DESIGNATION:

- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 WITH A MINIMUM TENSILE STRENGTH OF 70 KSI

MARKETING DRAWING FOR ANCHORS WRAPPED AROUND STEEL JOISTS

DRAWING NO. **SM-1-XXXX** | PLOT SCALE: 1:1 | PAGE NO. 1 of 1



Summit Anchor Company Inc.
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Toll Free: 800.372.1098
Web: www.summitanchor.com

ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT
IN ANY DIRECTION LOAD MAY BE APPLIED

ROOF ANCHOR ON TOP OF CONCRETE ON CORRUGATED DECK SM-1 - CUSTOM


- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE: 12" TALL, 3" SCH. 40 (3-1/2" O.D. X 0.216) A500 GR. C STEEL PIPE
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- SM-TRA: 5/8"Ø 304 STAINLESS STEEL THREADED RODS WITH STAINLESS STEEL HEAVY HEX NUTS, GALVANIZED FLAT, AND LOCK WASHERS. BOLT LENGTH DETERMINED FROM HEIGHT FROM BOTTOM DECK TO TOP OF CONCRETE. (D.C.C.).
- SM-PL-TS: 12" X 30" X 1/2" THICK A572 GR. 50 STEEL PLATE. BELOW DECK SHALL SPAN A MINIMUM OF 3 BOTTOM RIBS
3 1/2" LIGHTWEIGHT CONCRETE CAST ON 3"-16 GALVANIZED COMPOSITE METAL DECK. TOTAL THICKNESS 6 1/2"
4000 PSI MIN.

MATERIAL DESIGNATION:

- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70

MARKETING DRAWING FOR ANCHORS WRAPPED AROUND STEEL JOISTS

DRAWING NO. **SM-1-XXXX** | PLOT SCALE: 1:1 | PAGE NO. 1 of 1



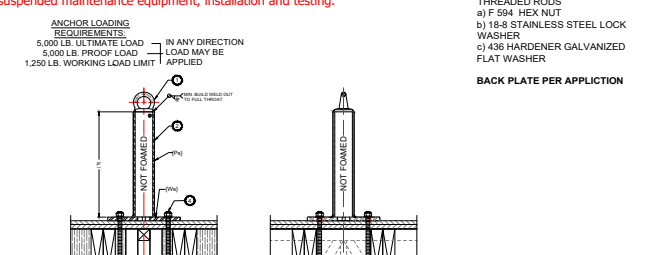
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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT
IN ANY DIRECTION
LOAD MAY BE APPLIED

ROOF ANCHOR MOUNTED ON WOODEN STRUCTURE SM-1 - CUSTOM

- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- SM-TRA-ADH: 5/8"Ø CHISEL TIPPED 304 STAINLESS STEEL HAS-R THREADED RODS
a) F 594 HEX NUT
b) 18-8 STAINLESS STEEL LOCK WASHER
c) 436 HARDENER GALVANIZED FLAT WASHER

BACK PLATE PER APPLICATION



NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDING PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 5,000 LB. ULTIMATE LOAD (WITHOUT PERMANENT DEFORMATION)
b) 2,500 LB. PROOF LOAD (WITH PERMANENT DEFORMATION)
c) 1,250 LB. WORKING LOAD (WITH PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR ANCHORS TO COMPATIBLE STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. BE FULLY AWARE THAT ANCHORS MUST BE INSTALLED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. IMPROPERLY INSTALLED ANCHORS WILL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE AND WILL BE PROVIDED WITH A MINIMUM CLEARANCE SAFETY FACTOR OF 5.
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, CONCERNING THE ANCHOR AND COMPATIBLE STRUCTURE LOADS AND PERFORMANCE CODES. DESIGN DETAILS AND MATERIALS TO BE USED.
- ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH THEY ARE ATTACHED IS FULLY DESIGNED TO SUPPORT THE ANCHORS AND ALL APPLIED LOADS. THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE TO WHICH IT IS ATTACHED MUST BE DESIGNED TO SUPPORT THE ANCHORS AND ALL APPLIED LOADS. THIS INCLUDES VERTICAL AND HORIZONTAL LOADS, COMBINED BENDING AND COMPRESSION, AND CONSIDERATION OF THE EFFECTS OF WIND, SEISMIC, THERMAL, AND OTHER STRESSORS. STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENTS REQUIRED TO SUPPORT THE ANCHORS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY ENCL. IS ONLY FOR EQUIPMENT DESIGN AND NOT FOR STRUCTURE DESIGN. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING. THE STRUCTURE AND FIELD CONNECTIONS MUST BE DESIGNED TO RESIST THE ANCHORS AND ALL APPLIED LOADS. THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE TO WHICH IT IS ATTACHED MUST BE DESIGNED TO SUPPORT THE ANCHORS AND ALL APPLIED LOADS. THIS INCLUDES VERTICAL AND HORIZONTAL LOADS, COMBINED BENDING AND COMPRESSION, AND CONSIDERATION OF THE EFFECTS OF WIND, SEISMIC, THERMAL, AND OTHER STRESSORS. STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENTS REQUIRED TO SUPPORT THE ANCHORS.

MATERIAL DESIGNATION:


- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 WITH A MINIMUM TENSILE STRENGTH OF 70 KSI

MARKETING DRAWING FOR ANCHORS ATTACHED TO WOODEN STRUCTURE


DRAWING NO. **SM-1-XXXX** | PLOT SCALE: 1:1 | PAGE NO. 1 of 1

WALL ANCHOR MOUNTED WITH CHEMICAL FASTENERS

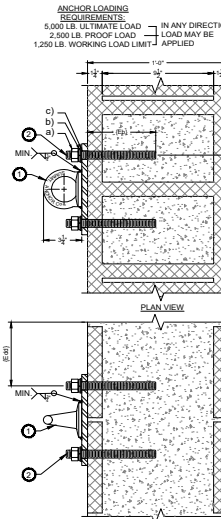
SUMMIT MODEL #: SM-81-XX-XX



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1 SM-81: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
2 SM-TRA-AD: 1/2"Ø 304 B8 CHISEL TIPPED STAINLESS STEEL THREADED RODS
a) F 594 HEX NUT
b) 1/8" STAINLESS STEEL LOCK WASHER
c) F 436 HARDENER GALVANIZED FLAT WASHER
SM-EPX-HY-270: HILTI-HY-270 EPOXY ADHESIVE. INSTALLATION PER ESR-4143



ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT

MODEL	MAX. TUBE LENGTH (T)	PIPE SIZE (PS)	TUBE TO BASE WELD (W)	HOLE SIZE IN BASE PLATE FOR FASTENERS	BASE PLATE SIZE (B)	HOLE SPACING (S)	MIN. EDGE DISTANCE (E)	MIN. EDGE DISTANCE (ES)	MIN. EMBEDMENT DEPTH (ED)
SM-81-8-0-12-08	N/A	N/A	N/A	1"	8" X 8" X 1/2"	6"	24"	24"	4.5"

SUMMIT STANDARD ANCHOR

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 1200 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 2500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
c) 5000 LB. ULTIMATE LOAD
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONAL ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE. a) - SEE AISC 141 WINDOWN CLEARING SAFETY STANDARDS.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLETS WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED IN THE DRAWING INCLUDING MOMENT, SHEAR, TORSION, AND AXIAL FORCES ETC. THE PROJECT ENGINEER (PROVIDER) FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MANUFACTURING STRONG POINTS INCLUDING SUSPENDED ACCESS EQUIPMENT, HORIZONTAL LOADS, CARTRIDGE CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL DETAILING, LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY ENCL. IS ONLY FOR EQUIPMENT DESIGNER'S REVIEW ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATIC LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

PROJECT INFORMATION TO BE VERIFIED BY CONTRACTOR:

- CONCRETE WALL 12" THICKNESS FILLED WITH GROUT
- MASONRY MIN. COMPRESSIVE STRENGTH 1500 PSI
- GROUT SHALL BE PROPORTIONED TO ASTM C476 MIN. COMPRESSIVE STRENGTH OF THE MORTAR SHALL BE 3000 PSI
- ALL CONCRETE MASONRY UNITS SHALL BE FOLLOW: NORMAL WEIGHT, 2-CELL BLOCKS THAT CONFORM TO ASTM C90 UNITS.
- ALL MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F_m OF 1500 PSI.
- ALL GROUT SHALL BE PROPORTIONED TO ASTM C476. THE MINIMUM COMPRESSIVE STRENGTH OF THE MORTAR SHALL BE 3000 PSI.


MATERIAL DESIGNATION:

- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70

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MOORE FIRE STATION #2
DRAWING NO. SM-1-XX-XX
PAGE NO. A-0

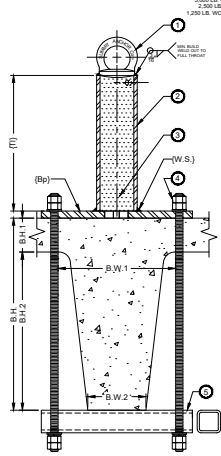
ROOF ANCHOR WRAPPED AROUND CONCRETE JOIST

SUMMIT MODEL #: SM-1-X-X-X ROOF ANCHOR



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- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
- HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.**
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.**
- SM-TRA: 5/8"Ø 304 B8 STAINLESS STEEL THREADED RODS WITH STAINLESS STEEL HEAVY HEX NUTS, GALVANIZED FLAT, AND STAINLESS LOCK WASHERS. BOLT LENGTH DETERMINED BY BEAM HEIGHT (B.H.).**
- SM-PLT-TS: 2"x2"x1/8" TUBE STEEL**
- SM-PLT-TS: 3"x3"x1/8" L SHAPE PROFILE**



ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT

MODEL#	TUBE LENGTH (T)	BASE PLATE SIZE (Bp)	MAX. TUB. WIDTH (B.W.1)	MAX. TUB. WIDTH (B.W.2)	BEAM HEIGHT (B.H.1)	MIN. BEAM HEIGHT (B.H.1)
SM-1-13-12-58	12"	13" X 13"	10"	5"	12"	3"
SM-1-13-14-58	14"	13" X 13"	10"	5"	12"	3"
SM-1-13-16-58	16"	13" X 13"	10"	5"	12"	3"
SM-1-13-18-58	18"	13" X 13"	10"	5"	12"	3"

SUMMIT'S STANDARD ANCHOR MODELS

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 1200 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 2500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
c) 5000 LB. ULTIMATE LOAD
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONAL ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE. a) - SEE AISC 141 WINDOWN CLEARING SAFETY STANDARDS.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLETS WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED IN THE DRAWING INCLUDING MOMENT, SHEAR, TORSION, AND AXIAL FORCES ETC. THE PROJECT ENGINEER (PROVIDER) FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MANUFACTURING STRONG POINTS INCLUDING SUSPENDED ACCESS EQUIPMENT, HORIZONTAL LOADS, CARTRIDGE CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL DETAILING, LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY ENCL. IS ONLY FOR EQUIPMENT DESIGNER'S REVIEW ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

MATERIAL DESIGNATION:

- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70


PROJECT INFORMATION:

- CONCRETE JOIST: B.H.14" Ø, B.H.24" Ø, 14"
- SM-PLT-TS: 2"x2"x1/8"
- NORMAL WEIGHT CONCRETE
- COMPRESSIVE STRENGTH F_c 3000 PSI

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DRAWING NO. SM-1-X-X-X
PAGE NO. A-1

ROOF ANCHOR - WRAPPED AROUND CONCRETE JOISTS

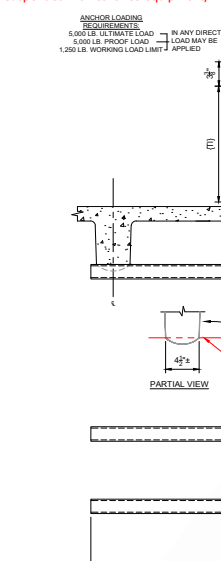
SUMMIT MODEL #: SM-1-X-X-X



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"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
- (T) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS PER TABLE.**
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.**
- BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR**



ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD LOAD MAY BE APPLIED
1,250 LB. WORKING LOAD LIMIT

MIN BUILD WELD OUT TO FULL THROAT

CHIP OFF TO PRODUCE A FLAT SURFACE

CONCRETE JOIST BY OTHERS

PLAN VIEW

SECTION VIEW

PARTIAL VIEW

CONCRETE JOIST BY OTHERS

PLAN VIEW

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 1200 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 2500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
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- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONAL ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE. a) - SEE AISC 141 WINDOWN CLEARING SAFETY STANDARDS.
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MATERIAL DESIGNATION:

- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

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DRAWING NO. SM-1-X-X-X
PAGE NO. 1 OF 1

RECESSED BRUSHY ALUMINUM ANCHOR

SUMMIT MODEL #: SM-ANCH-CAP

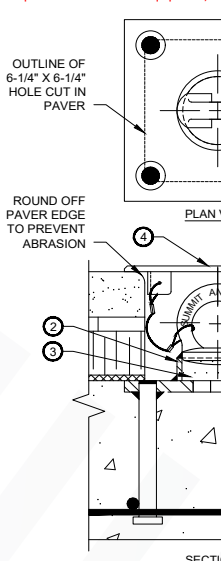


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- SM-1, SM-4, OR SM-5: AND FASTENERS SUITABLE FOR APPLICATION. ENTIRE ANCHOR HOT-DIPPED GALVANIZED AFTER FABRICATION.**
- HSS TUBE: HEIGHT AND DIAMETER SIZE AS REQUIRED FOR APPLICATION.**
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.**
- SM-CAP-ANC: 8" X 8" X 1/4" BRUSHED FINISH ALUMINUM COVER PLATE.**

OTHER FINISH IS AVAILABLE AT DIRECTION OF THE ARCHITECT.



OUTLINE OF 6-1/4" X 6-1/4" HOLE CUT IN PAVER

ROUND OFF PAVER EDGE TO PREVENT ABRASION

PLAN VIEW

SECTION VIEW

CONCRETE JOIST BY OTHERS

CONCRETE JOIST BY OTHERS

PLAN VIEW

SECTION VIEW

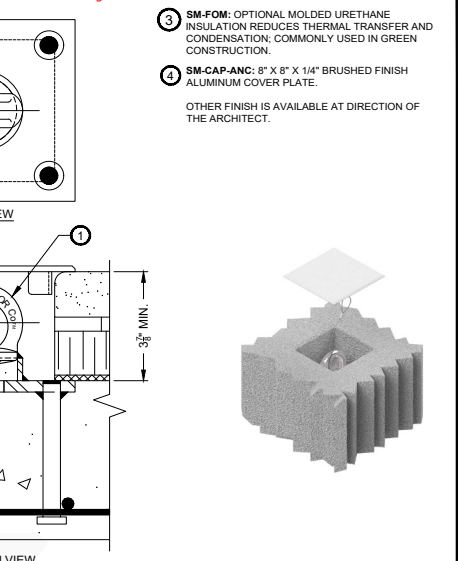
NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 1200 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 2500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
c) 5000 LB. ULTIMATE LOAD
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONAL ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE. a) - SEE AISC 141 WINDOWN CLEARING SAFETY STANDARDS.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLETS WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED IN THE DRAWING INCLUDING MOMENT, SHEAR, TORSION, AND AXIAL FORCES ETC. THE PROJECT ENGINEER (PROVIDER) FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MANUFACTURING STRONG POINTS INCLUDING SUSPENDED ACCESS EQUIPMENT, HORIZONTAL LOADS, CARTRIDGE CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL DETAILING, LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY ENCL. IS ONLY FOR EQUIPMENT DESIGNER'S REVIEW ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

MATERIAL DESIGNATION:

- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

Summit Anchor Company Inc.
DRAWING NO. SM-ANCH-CAP
PAGE NO. 1 OF 1



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ROOF ANCHOR - WELD TO BEAM WITH STEEL CHANNEL
SUMMIT MODEL #: SM-4-X-X-X

1. **SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
 2. **(PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS PER TABLE.**
 3. **SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.**
 4. **BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR**

ANCHOR LOADING REQUIREMENTS:
 5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
 5,000 LB. PROOF LOAD IN ANY DIRECTION
 1,250 LB. WORKING LOAD LIMIT APPLIED

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - 5,000 LB. WORKING LOAD LIMIT (ALL DIRECTION)
 - 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - 1,250 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE DESIGNER/ARCHITECT THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUPERSEDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE AS PER 904.14 WINDOW CLEANING SAFETY STANDARD.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THE DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED IN THE DRAWING INCLUDING ROBERTS' BRACKETS, CROSSING AND HANG CONNECTIONS ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS SHALL BE FULLY DEVELOPED TO MAKE STRUCTURAL ELEMENTS WITHIN ALLOWED VERTICAL AND HORIZONTAL LOADS. CONCRETE MEMBERS AND ASSOCIATED CONCRETE FIELD CONNECTION DETAILS INCLUDING ANY FIELD REINFORCEMENT, CONCRETE STRENGTH, STRAINING REINFORCING STEEL, DELTA AND HORIZONTAL LOADS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ANCHOR LOADS.
- ENGINEERS/ARCHITECTS WHO PROVIDE UNDER THIS STAMP AND SEAL BY EOR, ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF SCOPE.

MATERIAL DESIGNATION:
 • ALL FORGED PAD EYES: A51 1035
 • ALL TUBES: ASTM A500 GR C
 • WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

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MARKETING DRAWING FOR WELD ON ANCHORS ON STEEL CHANNEL
 DRAWING NO. SM-4-X-X-X
 SCALE: A-1
 PAGE NO. 1 of 1

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ROOF ANCHOR - WELD TO BEAM WITH CROSS BRACING
SUMMIT MODEL #: SM-4-X-X-X

1. **SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
 2. **(PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS PER TABLE.**
 3. **SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.**
 4. **BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR**

ANCHOR LOADING REQUIREMENTS:
 5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
 5,000 LB. PROOF LOAD IN ANY DIRECTION
 1,250 LB. WORKING LOAD LIMIT APPLIED

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - 5,000 LB. WORKING LOAD LIMIT (ALL DIRECTION)
 - 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - 1,250 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE DESIGNER/ARCHITECT THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUPERSEDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE AS PER 904.14 WINDOW CLEANING SAFETY STANDARD.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THE DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED IN THE DRAWING INCLUDING ROBERTS' BRACKETS, CROSSING AND HANG CONNECTIONS ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS SHALL BE FULLY DEVELOPED TO MAKE STRUCTURAL ELEMENTS WITHIN ALLOWED VERTICAL AND HORIZONTAL LOADS. CONCRETE MEMBERS AND ASSOCIATED CONCRETE FIELD CONNECTION DETAILS INCLUDING ANY FIELD REINFORCEMENT, CONCRETE STRENGTH, STRAINING REINFORCING STEEL, DELTA AND HORIZONTAL LOADS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ANCHOR LOADS.
- ENGINEERS/ARCHITECTS WHO PROVIDE UNDER THIS STAMP AND SEAL BY EOR, ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF SCOPE.

MATERIAL DESIGNATION:
 • ALL FORGED PAD EYES: A51 1035
 • ALL TUBES: ASTM A500 GR C
 • WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

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MARKETING DRAWING FOR WELD ON ANCHORS WITH CROSS BRACING
 DRAWING NO. SM-4-X-X-X
 SCALE: A-1
 PAGE NO. 1 of 1

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ROOF ANCHOR - WELD TO BEAM WITH CROSS BRACING
SUMMIT MODEL #: SM-4-X-X-X

1. **SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
 2. **(PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS PER TABLE.**
 3. **SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.**
 4. **BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR**

ANCHOR LOADING REQUIREMENTS:
 5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
 5,000 LB. PROOF LOAD IN ANY DIRECTION
 1,250 LB. WORKING LOAD LIMIT APPLIED

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - 5,000 LB. WORKING LOAD LIMIT (ALL DIRECTION)
 - 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - 1,250 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE DESIGNER/ARCHITECT THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUPERSEDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE AS PER 904.14 WINDOW CLEANING SAFETY STANDARD.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THE DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED IN THE DRAWING INCLUDING ROBERTS' BRACKETS, CROSSING AND HANG CONNECTIONS ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS SHALL BE FULLY DEVELOPED TO MAKE STRUCTURAL ELEMENTS WITHIN ALLOWED VERTICAL AND HORIZONTAL LOADS. CONCRETE MEMBERS AND ASSOCIATED CONCRETE FIELD CONNECTION DETAILS INCLUDING ANY FIELD REINFORCEMENT, CONCRETE STRENGTH, STRAINING REINFORCING STEEL, DELTA AND HORIZONTAL LOADS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ANCHOR LOADS.
- ENGINEERS/ARCHITECTS WHO PROVIDE UNDER THIS STAMP AND SEAL BY EOR, ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF SCOPE.

MATERIAL DESIGNATION:
 • ALL FORGED PAD EYES: A51 1035
 • ALL TUBES: ASTM A500 GR C
 • WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

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MARKETING DRAWING FOR WELD ON ANCHORS WITH CROSS BRACING
 DRAWING NO. SM-4-X-X-X
 SCALE: A-1
 PAGE NO. 1 of 1

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ROOF ANCHOR - WELD TO BEAM WITH CROSS BRACING
SUMMIT MODEL #: SM-4-X-X-X

1. **SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
 2. **(PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS PER TABLE.**
 3. **SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.**
 4. **BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR**

ANCHOR LOADING REQUIREMENTS:
 5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
 5,000 LB. PROOF LOAD IN ANY DIRECTION
 1,250 LB. WORKING LOAD LIMIT APPLIED

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - 5,000 LB. WORKING LOAD LIMIT (ALL DIRECTION)
 - 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - 1,250 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE DESIGNER/ARCHITECT THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUPERSEDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE AS PER 904.14 WINDOW CLEANING SAFETY STANDARD.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THE DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED IN THE DRAWING INCLUDING ROBERTS' BRACKETS, CROSSING AND HANG CONNECTIONS ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS SHALL BE FULLY DEVELOPED TO MAKE STRUCTURAL ELEMENTS WITHIN ALLOWED VERTICAL AND HORIZONTAL LOADS. CONCRETE MEMBERS AND ASSOCIATED CONCRETE FIELD CONNECTION DETAILS INCLUDING ANY FIELD REINFORCEMENT, CONCRETE STRENGTH, STRAINING REINFORCING STEEL, DELTA AND HORIZONTAL LOADS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ANCHOR LOADS.
- ENGINEERS/ARCHITECTS WHO PROVIDE UNDER THIS STAMP AND SEAL BY EOR, ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF SCOPE.


MATERIAL DESIGNATION:
 • ALL FORGED PAD EYES: A51 1035
 • ALL TUBES: ASTM A500 GR C
 • WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

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MARKETING DRAWING FOR WELD ON ANCHORS WITH CROSS BRACING
 DRAWING NO. SM-4-X-X-X
 SCALE: A-1
 PAGE NO. 1 of 1

ROOF ANCHOR - WRAPPED AROUND BEAM WITH CROSS BRACING

SUMMIT MODEL #: SM-1-X-X-X

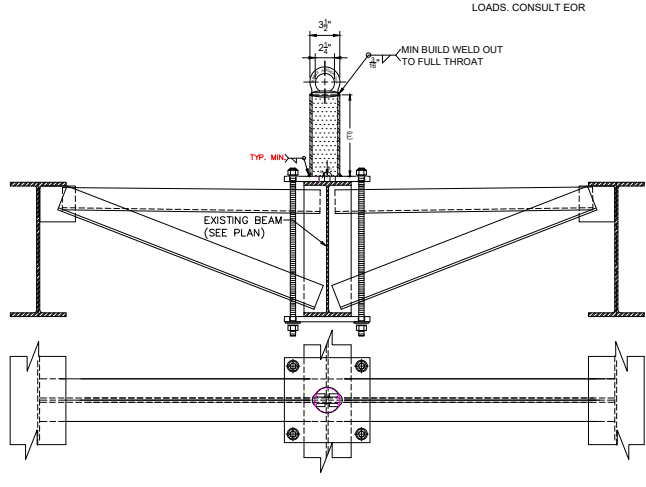


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"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

ANCHOR LOADING REQUIREMENTS
5,000 LB. WIND/RAVE LOAD IN ANY DIRECTION
5,000 LB. PROOF LOAD → LOAD MAY BE 1,250 LB. WORKING LOAD LIMIT # 4 APPLIED

1. **SM-4:** FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
2. **(PS) HSS TUBE:** HEIGHT, DIAMETER, AND THICKNESS PER TABLE.
3. **SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
4. BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR.



NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - #1 2,000 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - #2 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - #3 5,000 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSIGNED THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE SUPERVISED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONAL ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE AS PER SECTION 14.11 WINDOW CLEANING SAFETY STANDARDS.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY PROVIDED TO ASSIST THE LOADS INDICATED ON THE DRAWING INCLUDING HEAVY DUTY CRANES, ADJACENT LOADS TO THE PROJECT, OVERLOADS FROM ACCIDENTS, OR THE BEING RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS SHOULD BE AND NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD, CHANGING MEMBER AND ASSOCIATED CONNECTIONS, FIELD CONNECTIONS, AND INCLUDING ANY FIELD WELDS, CORNERS, COLLARS, OR OTHERS ELEMENTS REQUIRED TO SUPPORT THE ABOVE LOADS. STEEL BRACING, ADVISORY OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY CHC. IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATION WITH THE DESIGN OR PROVIDED FIELD BUILDING. EXISTING OR PROPOSED BUILDING CONSTRUCTION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF SCOPE.

MATERIAL DESIGNATION:

- ALL FORGED PAD EYES: A516 155
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)


POC: #01000	DATE: 01/15/2019	REV: 01/15/2019
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DATE: 01/15/2019	DATE: 01/15/2019	DATE: 01/15/2019

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MARKETING DRAWING FOR ANCHORS WELDED TO TOP OF COLUMN
DRAWING NO.: SM-1-X-X-X
PILOT SCALE: 1:1
PAGE NO. 1 of 1

ROOF ANCHOR - WELD TO TOP OF COLUMN

SUMMIT MODEL #: SM-4-CUSTOM

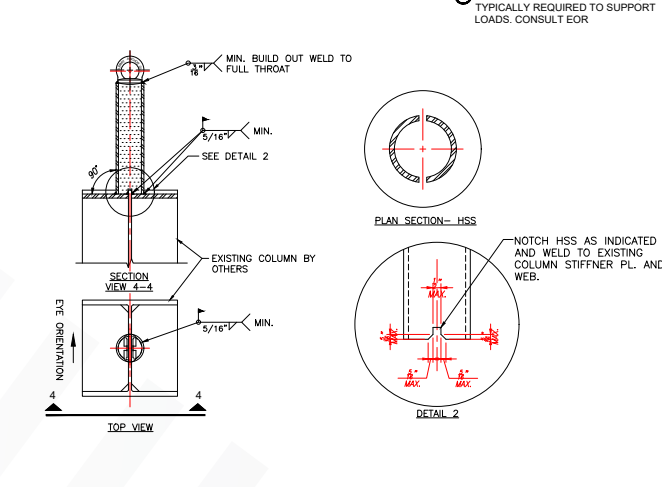


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Toll Free: 800.372.1098 Web: www.summitanchor.com

"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

ANCHOR LOADING REQUIREMENTS
5,000 LB. WIND/RAVE LOAD IN ANY DIRECTION
5,000 LB. PROOF LOAD → LOAD MAY BE 1,250 LB. WORKING LOAD LIMIT # 4 APPLIED

1. **SM-4:** FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
2. **(PS) HSS TUBE:** HEIGHT, DIAMETER, AND THICKNESS PER TABLE.
3. **SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
4. BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR.



NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - #1 2,000 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - #2 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - #3 5,000 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSIGNED THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE SUPERVISED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONAL ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE AS PER SECTION 14.11 WINDOW CLEANING SAFETY STANDARDS.
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY PROVIDED TO ASSIST THE LOADS INDICATED ON THE DRAWING INCLUDING HEAVY DUTY CRANES, ADJACENT LOADS TO THE PROJECT, OVERLOADS FROM ACCIDENTS, OR THE BEING RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS SHOULD BE AND NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD, CHANGING MEMBER AND ASSOCIATED CONNECTIONS, FIELD CONNECTIONS, AND INCLUDING ANY FIELD WELDS, CORNERS, COLLARS, OR OTHERS ELEMENTS REQUIRED TO SUPPORT THE ABOVE LOADS. STEEL BRACING, ADVISORY OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY CHC. IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATION WITH THE DESIGN OR PROVIDED FIELD BUILDING. EXISTING OR PROPOSED BUILDING CONSTRUCTION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF SCOPE.

MATERIAL DESIGNATION:

- ALL FORGED PAD EYES: A516 155
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)


POC: #01430	DATE: 01/15/2019	REV: 01/15/2019
DATE: 01/15/2019	DATE: 01/15/2019	DATE: 01/15/2019
DATE: 01/15/2019	DATE: 01/15/2019	DATE: 01/15/2019
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MARKETING DRAWING FOR ANCHORS WELDED TO TOP OF COLUMN
DRAWING NO.: SM-4-CUSTOM
PILOT SCALE: 1:1
PAGE NO. 1 of 1

ROOF ANCHOR - WELD TO BEAM W/ HALF MOON PLATE

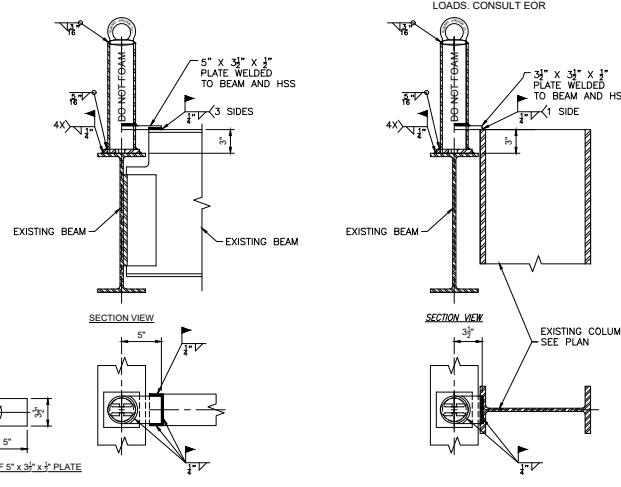
SUMMIT MODEL #: SM-4-CUSTOM



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
5,000 LB. PROOF LOAD LOAD MAY BE APPLIED
1,200 LB. WORKING LOAD LIMIT - APPLIED



SECTION VIEW
5" x 3/4" x 1/2" PLATE WELDED TO BEAM AND HSS
3 SIDES

PLAN VIEW
PLAN VIEW OF 5" x 3/4" x 1/2" PLATE

- SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- (PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS PER TABLE.
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR

MATERIAL DESIGNATION:

- ALL FORGED PAD EYES: A51 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:


- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - 5,000 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - 5,000 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSIGNED THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF ANCHORS MUST BE SUPERVISED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED. THIS SERVICE IS AS PER IRC-114 WINDOW CLEANING SAFETY STANDARDS.
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLETS WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURE THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING HOISTING, SHOCK, TORSION, AND WIND FORCES TO THE PROJECT ENGINEER OF RECORD FOR THE LOADS INDICATED ON THE DRAWING. THE DESIGNER OF RECORD SHALL BE RESPONSIBLE FOR THE PROJECT. THESE DETAILS SHALL BE INCLUDED, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD, CHANGING MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSIVE STRENGTH, REINFORCING STEEL, OR MECHANICALLY FASTENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- INDUSTRY/OWNER HAS PROVIDED UNDER THIS STAMP AND SEAL BY E.O.C. #1 ONLY FOR EQUIPMENT DESIGN BORN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE DESIGN OF PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPOSED USE HAS NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATIC LOADS ONLY. INTENDED USES OF EQUIPMENT IS OUT OF THIS SCOPE.

MARKETING DRAWING FOR ANCHORS WELDED TO BEAM WITH HALF MOON PLATE

Summit Anchor Co.
Drawing No: SM-4-X-X-X
Scale: A-1
Page No. 1 of 1

ROOF ANCHOR - WELD TO STEEL COLUMN

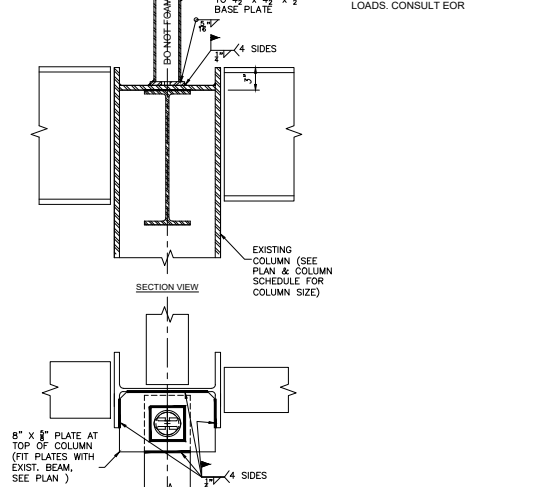
SUMMIT MODEL #: SM-4-CUSTOM



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
5,000 LB. PROOF LOAD LOAD MAY BE APPLIED
1,200 LB. WORKING LOAD LIMIT - APPLIED



SECTION VIEW
3/8" x 216" WALL HSS WELDED TO 4 1/2" x 4 1/2" x 1/2" BASE PLATE
4 SIDES

PLAN VIEW
8" x 8" PLATE AT TOP OF COLUMN (FIT PLATES WITH EXIST. BEAM, SEE PLAN)

- SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- (PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS PER TABLE.
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR

MATERIAL DESIGNATION:

- ALL FORGED PAD EYES: A51 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:


- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
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- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLETS WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
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MARKETING DRAWING FOR ANCHORS WELDED TO STEEL COLUMN

Summit Anchor Co.
Drawing No: SM-4-X-X-X
Scale: A-1
Page No. 1 of 1

ROOF ANCHOR - WELD AT 3-WAY BEAM INTERSECTION

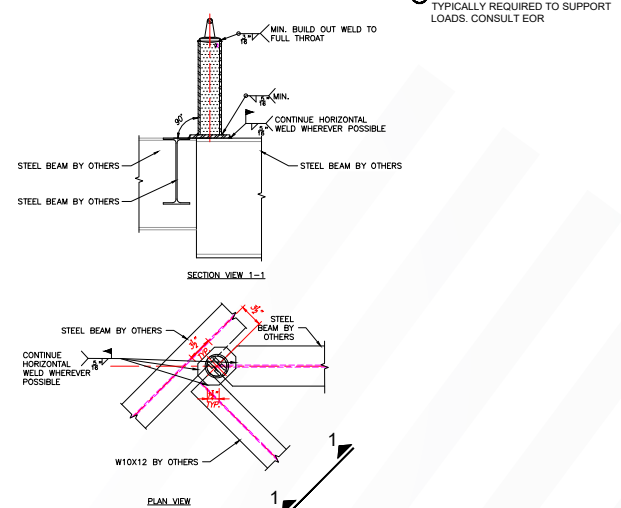
SUMMIT MODEL #: SM-4-X-X-X



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
5,000 LB. PROOF LOAD LOAD MAY BE APPLIED
1,200 LB. WORKING LOAD LIMIT - APPLIED



SECTION VIEW 1-1
MIN. BUILD OUT WELD TO FULL THROAT
CONTINUE HORIZONTAL WELD WHEREVER POSSIBLE

PLAN VIEW
W10x12 BY OTHERS

- SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- (PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS PER TABLE.
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR

MATERIAL DESIGNATION:

- ALL FORGED PAD EYES: A51 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:


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- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLETS WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
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MARKETING DRAWING FOR ANCHORS WELDED ON 3-WAY BEAM INTERSECTION

Summit Anchor Co.
Drawing No: SM-4-X-X-X
Scale: A-1
Page No. 1 of 1

ROOF ANCHOR - WELD TO BEAM

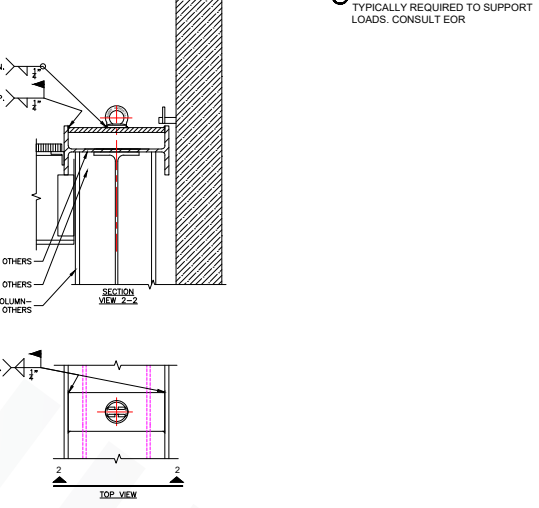
SUMMIT MODEL #: SM-4-X-X-X



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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
5,000 LB. PROOF LOAD LOAD MAY BE APPLIED
1,200 LB. WORKING LOAD LIMIT - APPLIED



SECTION VIEW
MIN. TYP.

TOP VIEW

- SM-4: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- (PS) HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS PER TABLE.
- SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR

MATERIAL DESIGNATION:

- ALL FORGED PAD EYES: A51 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

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- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
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MARKETING DRAWING FOR ANCHORS WELDED TO BEAM

Summit Anchor Co.
Drawing No: SM-4-X-X-X
Scale: A-1
Page No. 1 of 1

WALL ANCHOR - WRAPPED AROUND STEEL COLUMN

SUMMIT MODEL # - SM-81-X-X-X

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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
5,000 LB. PROOF LOAD IN ANY DIRECTION
1,250 LB. WORKING LOAD LIMIT - APPLIED

- 1 **SM-81:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- 2 **(P5) HSS TUBE:** HEIGHT, DIAMETER, AND THICKNESS PER TABLE.
- 3 **SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- 4 BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR.

MATERIAL DESIGNATION:

- ALL FORGED PAD EYES: A81 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

PCOR: #01430	4507 METROPOLITAN CT. SUITE F FREDERICK, MD 21704 TEL: 301.874.4941 FAX: 301.620.9819 TOLL FREE: 800.372.1098 WWW.SUMMITANCHOR.COM		MARKETING DRAWING FOR ANCHORS WRAPPED AROUND STEEL COLUMN DRAWING NO. SM-81-X-X-X PLOT SCALE: 1:1 PAGE NO. 1 of 1
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WALL ANCHOR - BOLT THROUGH CURB

SUMMIT MODEL # - SM-81-CUSTOM

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5,000 LB. PROOF LOAD IN ANY DIRECTION
1,250 LB. WORKING LOAD LIMIT - APPLIED

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- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

PCOR: #0000	4507 METROPOLITAN CT. SUITE F FREDERICK, MD 21704 TEL: 301.874.4941 FAX: 301.620.9819 TOLL FREE: 800.372.1098 WWW.SUMMITANCHOR.COM		MARKETING DRAWING FOR ANCHORS BOLTED THROUGH CURB DRAWING NO. SM-81-X-X-X PLOT SCALE: 1:1 PAGE NO. 1 of 1
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WALL ANCHOR - WRAPPED AROUND STEEL COLUMN

SUMMIT MODEL # - SM-81-X-X-X

Summit Anchor Co.
4507 Metropolitan Ct. Suite F, Frederick, MD 21704
Tel: 301.874.4941, Fax: 301.620.9819
Toll Free: 800.372.1098 Web: www.summitanchor.com

"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
5,000 LB. PROOF LOAD IN ANY DIRECTION
1,250 LB. WORKING LOAD LIMIT - APPLIED

- 1 **SM-81:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- 2 **(P5) HSS TUBE:** HEIGHT, DIAMETER, AND THICKNESS PER TABLE.
- 3 **SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- 4 BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR.

MATERIAL DESIGNATION:

- ALL FORGED PAD EYES: A81 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

PCOR: #0045	4507 METROPOLITAN CT. SUITE F FREDERICK, MD 21704 TEL: 301.874.4941 FAX: 301.620.9819 TOLL FREE: 800.372.1098 WWW.SUMMITANCHOR.COM		MARKETING DRAWING FOR ANCHORS WRAPPED AROUND STEEL COLUMN DRAWING NO. SM-81-X-X-X PLOT SCALE: 1:1 PAGE NO. 1 of 1
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WALL ANCHOR - MOUNTED TO CURB

SUMMIT MODEL # - SM-81-CUSTOM

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