



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

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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.

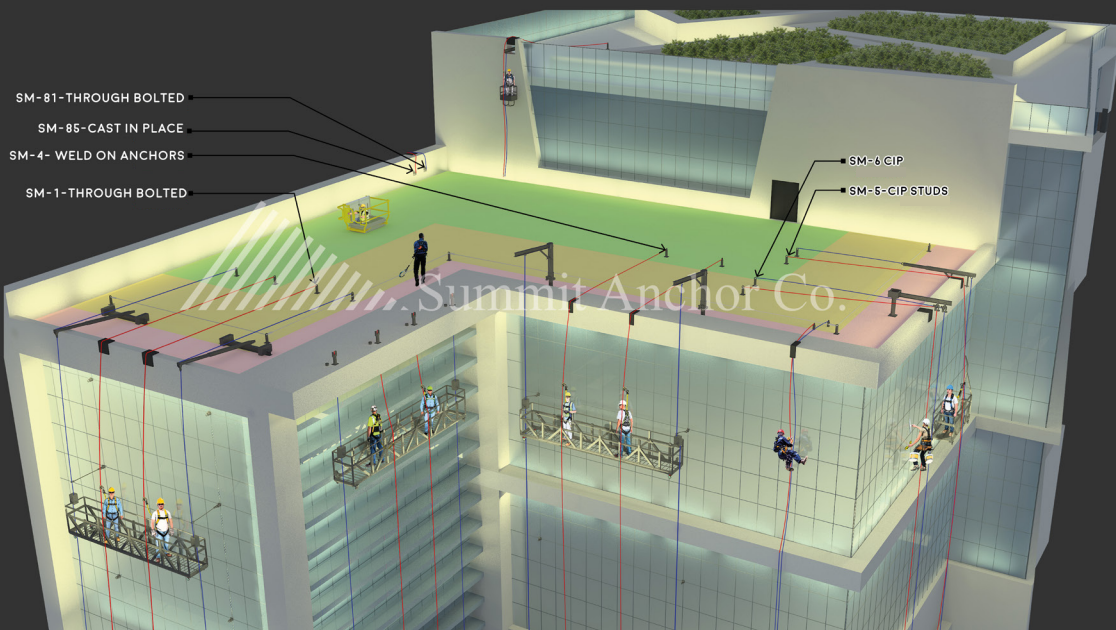
Summit Anchor Company can provide anchorage that will facilitate whatever exterior maintenance might be required on your building. Some common examples of this type of maintenance are:

- 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.

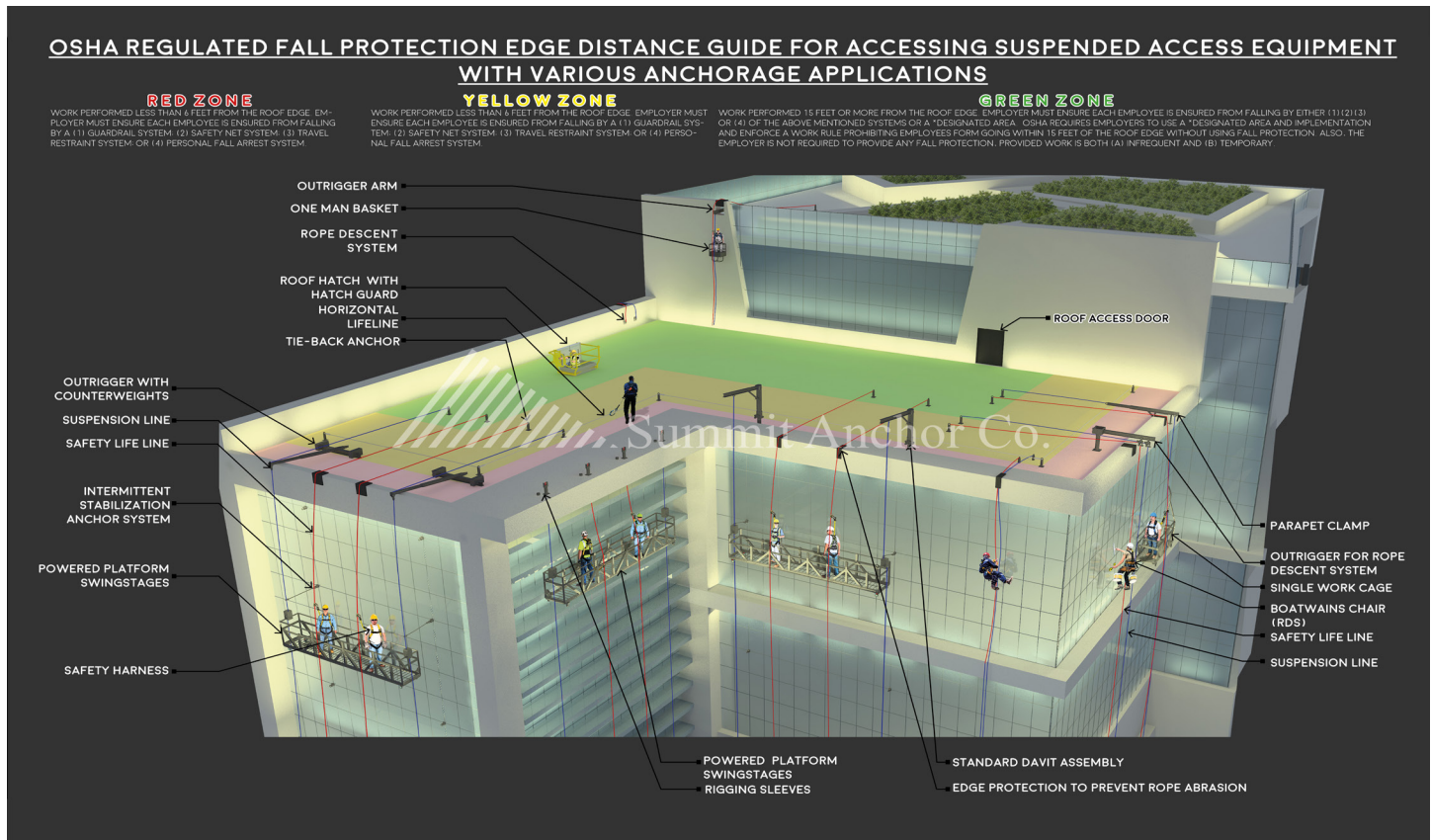
Summit Anchor Company can assist you with the design of a suspended maintenance system that complies with OSHA and ANSI/IWCA I-14.1 requirements. By utilizing our expertly engineered anchors, and other equipment, as needed, with a well designed anchor layout roof plan, we provide the highest level of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

OSHA REGULATED FALL PROTECTION EDGE DISTANCE GUIDE FOR ACCESSING SUSPENDED ACCESS EQUIPMENT WITH VARIOUS ANCHORAGE APPLICATIONS



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



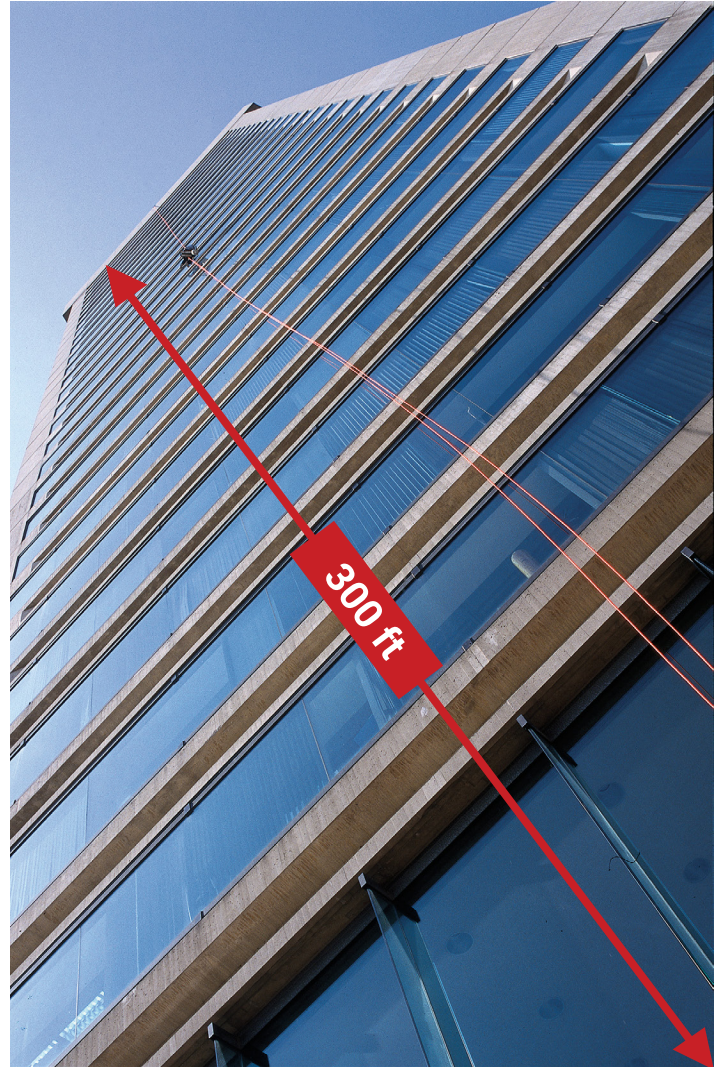
SM-5 SERIES ANCHOR

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.

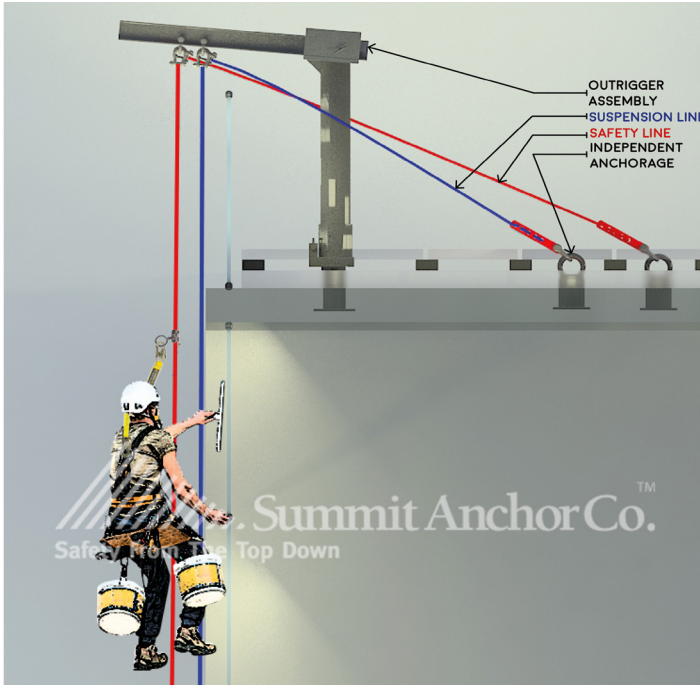
Design Considerations

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.)

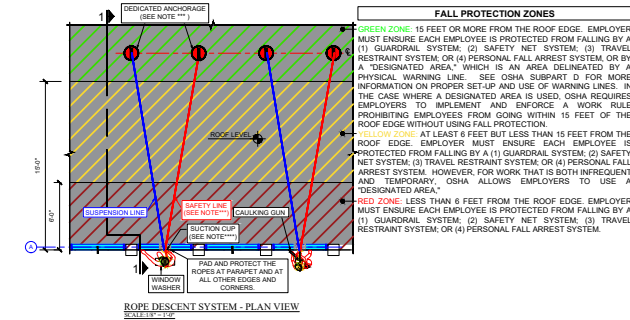
If parapets are not capable of supporting loads imposed by workers ropes, the designer should consider other methods of suspended access to bypass direct loading the parapet such as davit arm. See Summit Anchor Co. Davit Manual.

Anchor Layout Requirements

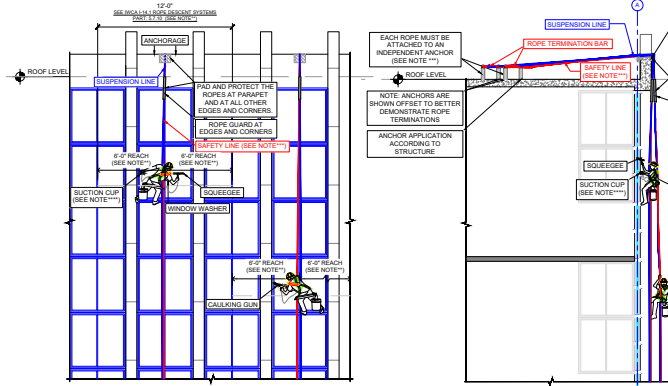
1. Anchors shall be identified on a plan of maintenance, typically posted on the inside of the roof door, so that workers can easily locate these anchorages on roofs.
2. Each worker shall be tied off to two independent anchorages – one for a fall arrest rope and one for a suspension rope.
3. Anchorages 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"

**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.

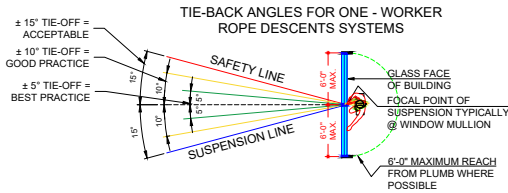
OSHA'S SUBPART D - WALKING - WORKING SURFACES DESIGNATED AREA FOR FALL PROTECTION SYSTEMS

- (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:	SP, Anchorage
CHECKED BY:	G. Smith
APPROVED BY:	1/20/2021
ROPE DESCENT SYSTEM TEMPLATE GUIDE	
A-1	

ROPE DESCENT SYSTEM

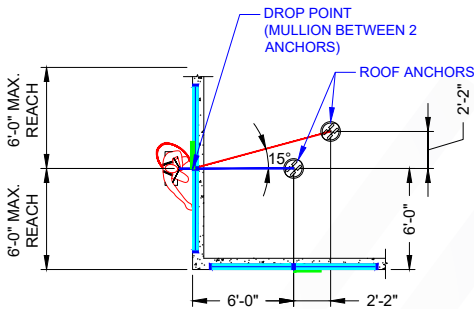
OUTSIDE CORNER LAYOUT REFERENCE DIAGRAM

NOTES:

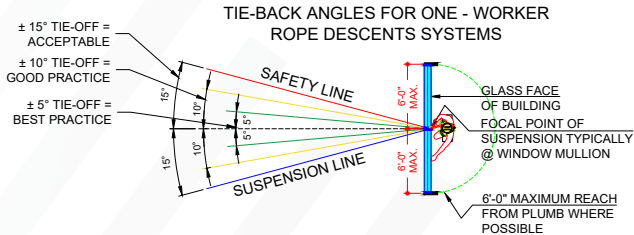
1. MAXIMUM ANCHOR SPACING = 12FT.
2. MAXIMUM TIE-BACK DISTANCE FROM ROOF EDGE = 50FT.
3. MAXIMUM ANGLE FROM PERPENDICULAR = 15° FOR BOTH SUSPENSION ROPE AND FALL ARREST ROPE.
4. WINDOW CLEANER SHALL NOT REACH FURTHER THAN SIX (6) FEET IN ANY DIRECTION.
5. THE ABOVE IS INTENDED TO SERVE AS AN GUIDE TO THE I.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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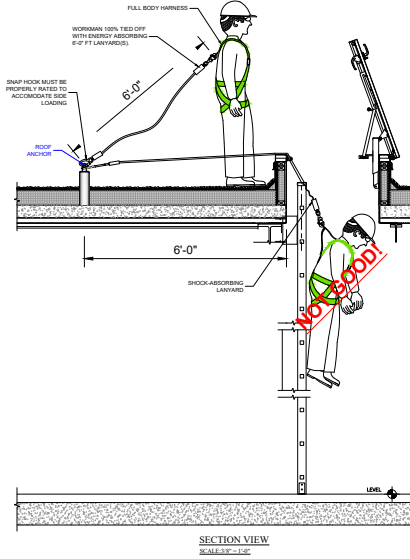
SCALE:	1/4" = 1'-0"
DRAWN BY:	SP, Anchorage
CHECKED BY:	G. Smith
APPROVED BY:	1/20/2021
ROPE DESCENT SYSTEM TEMPLATE GUIDE FOR OUTSIDE CORNER	
A-2	



ROOF HATCH FALL PROTECTION

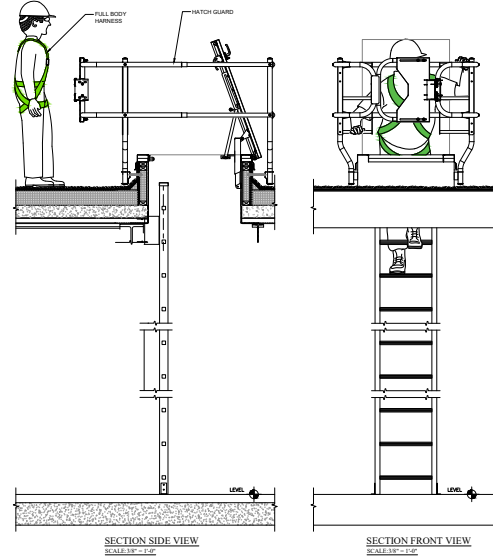
MARGINAL OPTION

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	SE. Almeida
CHECKED BY	CS. Brown
APPROVED BY	CS. Brown

FALL PROTECTION
TEMPLATE GUIDE

A-7

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

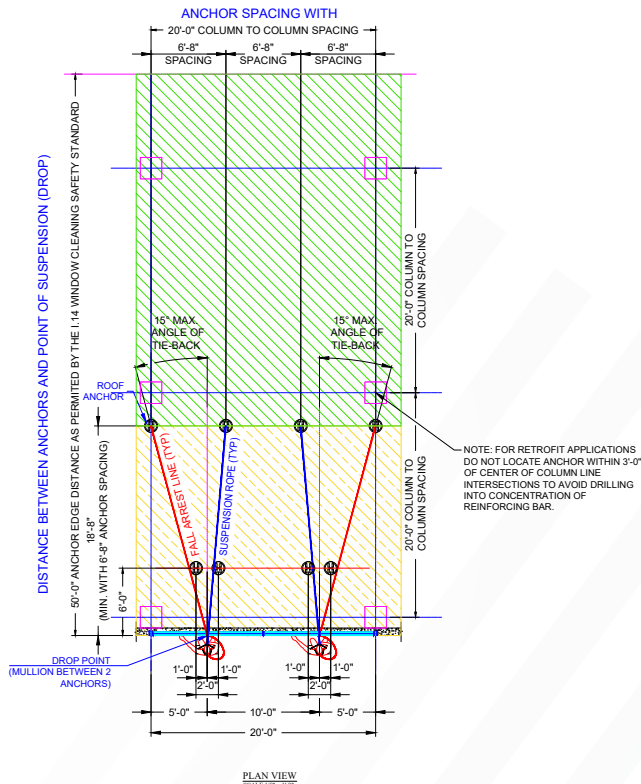
TO 14.1 2001 WINDOW CLEANING SAFETY STANDARD

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	SE. Almeida
CHECKED BY	CS. Brown
APPROVED BY	CS. Brown

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

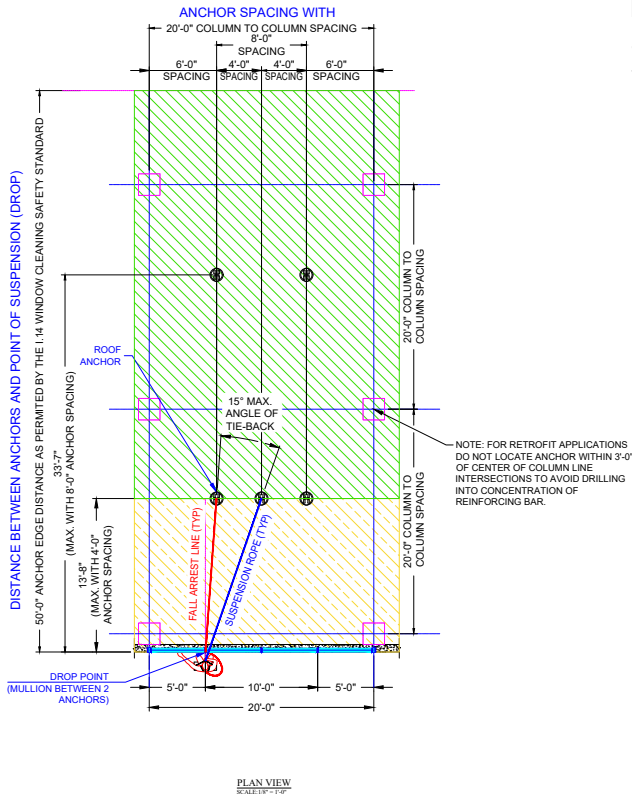
TO 14.1 2001 WINDOW CLEANING SAFETY STANDARD

NOTES:

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: 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.



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SCALE:	1/8" = 1'-0"
DRAWN BY:	EF. Almeida 1/28/2024
CHECKED BY:	CS. Brown 1/28/2024
APPROVED BY:	

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

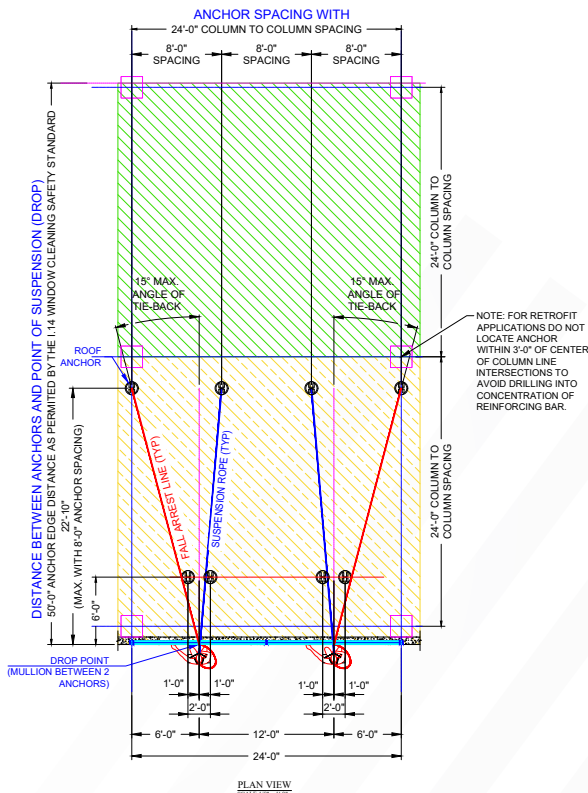
TO 14.1 2001 WINDOW CLEANING SAFETY STANDARD

NOTES:

1. MAXIMUM TIE-BACK DISTANCE FROM ROOF EDGE = 50FT.
2. MAXIMUM ANGLE FROM PERPENDICULAR = 15° FOR BOTH SUSPENSION ROPE AND FALL ARREST 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 24'-0" COLUMN SPACING.
- GREEN ZONE: ANCHORS AT 8'-0" SPACING WITH 24'-0" COLUMN SPACING.



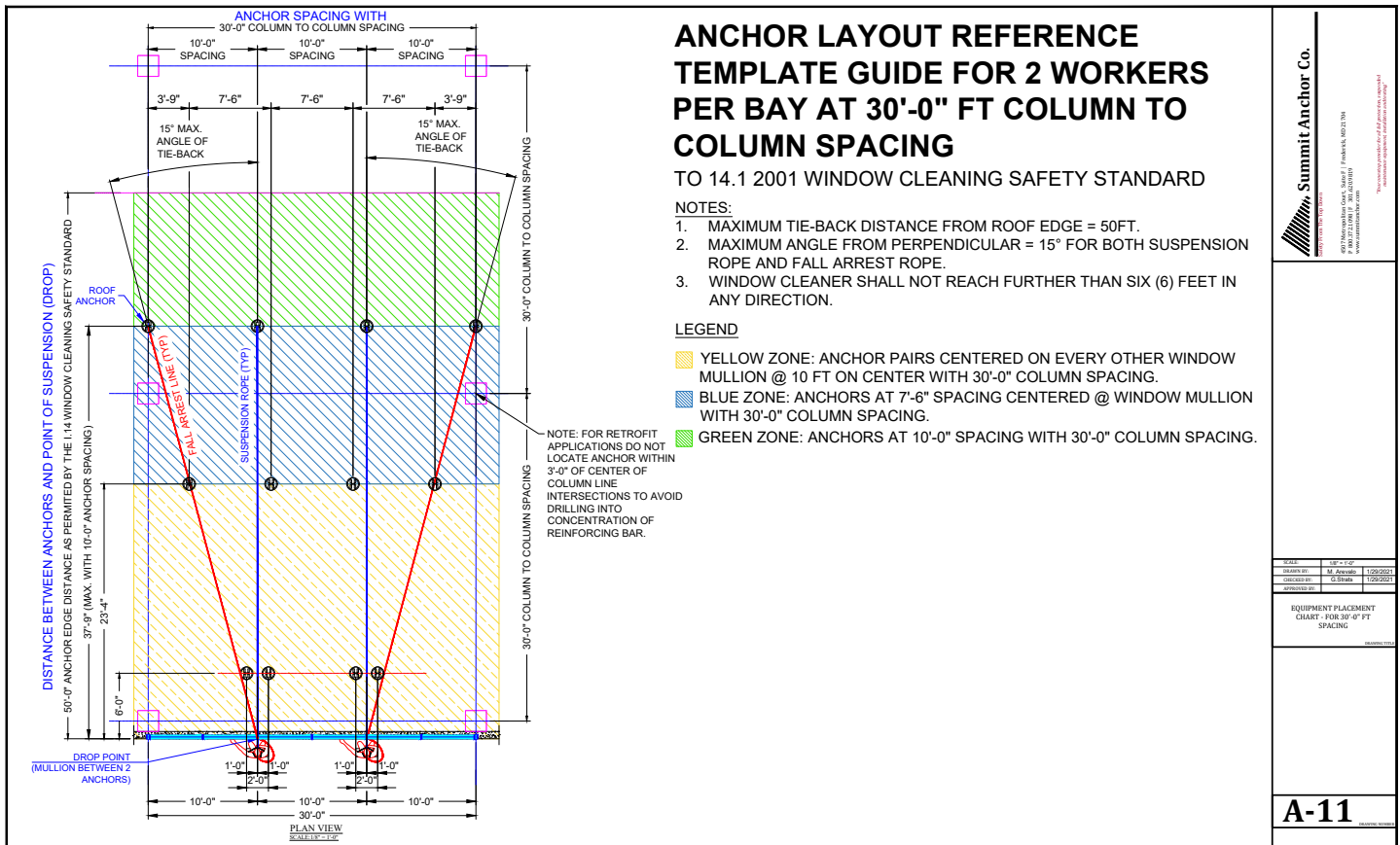
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SCALE:	1/8" = 1'-0"
DRAWN BY:	EF. Almeida 1/28/2024
CHECKED BY:	CS. Brown 1/28/2024
APPROVED BY:	

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

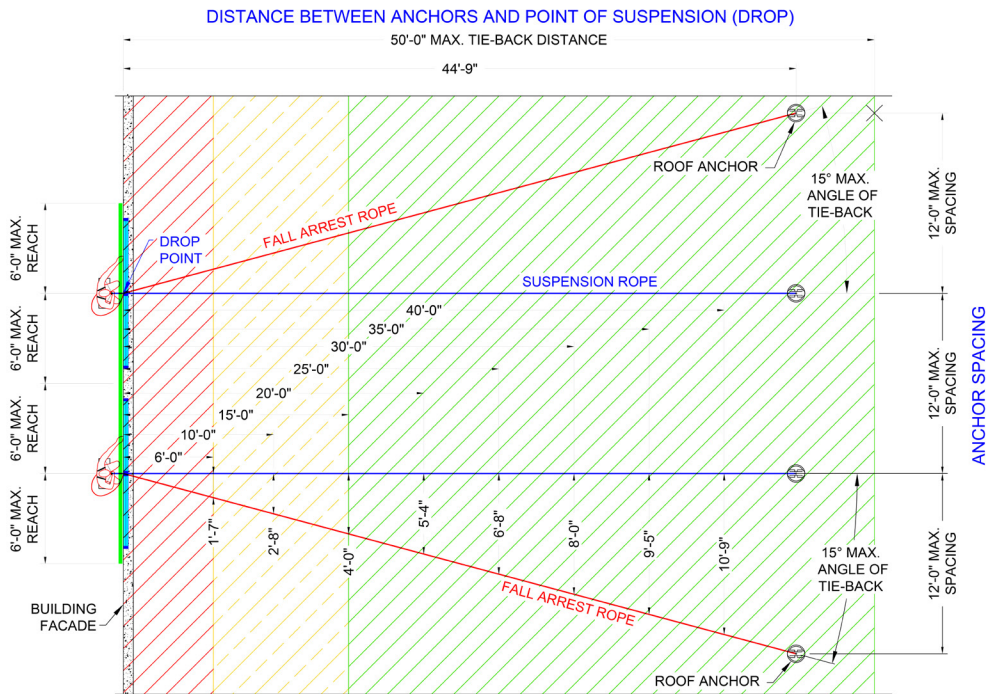
A-10





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

[illegible]

BOLT-ON ANCHORS - 4-HOLES

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

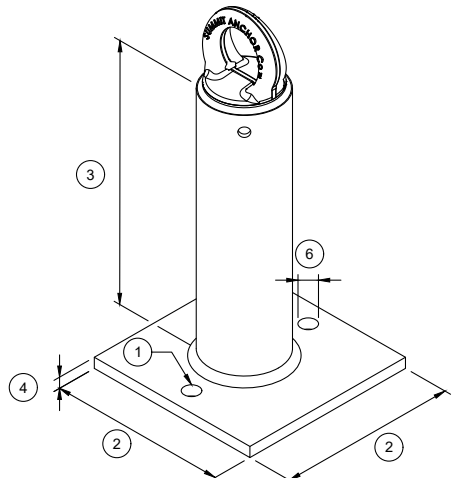
E1C-PH-05-080-080-00R0.0-G

SM-1-8-0-06

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

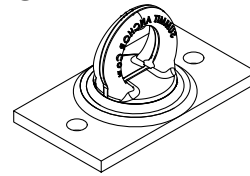
* NOTE: REPLACE O WITH X WHEN EYE WELDED DIRECTLY TO BASE PLATE

BOLT-ON ANCHORS - 2-HOLES

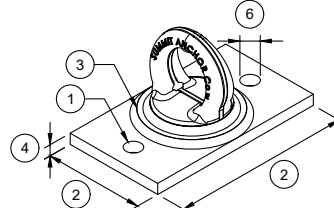


E1C-PH-05-080-080-00R0.0-G
SM-81-8-12-58-V-06

- 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 O WITH X WHEN EYE WELDED DIRECTLY TO BASE PLATE

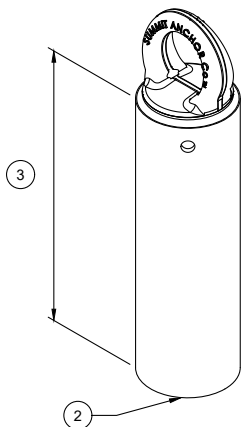
Summit Anchor Co.
400 West Main Street, Suite 100
P.O. Box 372, 10011 P.O. Box 372, 10011
P.O. Box 372, 10011 P.O. Box 372, 10011

SCALE: 1/4" = 1'-0"
DRAWN BY: J.E. Anderson
CHECKED BY: G. Smith
APPROVED BY: J.E. Anderson

NOMENCLATURE
SM-81

A-14

WELD ON ANCHORS



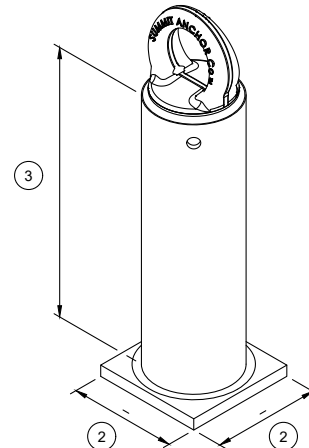
E1C-TW-00-000-000-12A3.5-G
SM-4-0-12

- 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 O WITH X WHEN EYE WELDED DIRECTLY TO BASE PLATE

Summit Anchor Co.
400 West Main Street, Suite 100
P.O. Box 372, 10011 P.O. Box 372, 10011
P.O. Box 372, 10011 P.O. Box 372, 10011

SCALE: 1/4" = 1'-0"
DRAWN BY: J.E. Anderson
CHECKED BY: G. Smith
APPROVED BY: J.E. Anderson

NOMENCLATURE
SM-4

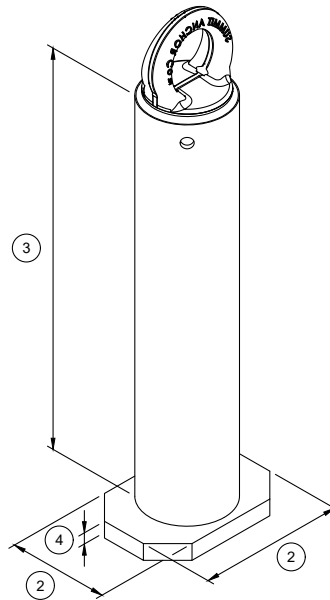
A-15



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

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SCALE: 1/4" = 1'-0"
DRAWN BY: M. Anderson
CHECKED BY: G. Smith
APPROVED BY:

NOMENCLATURE
SM-4

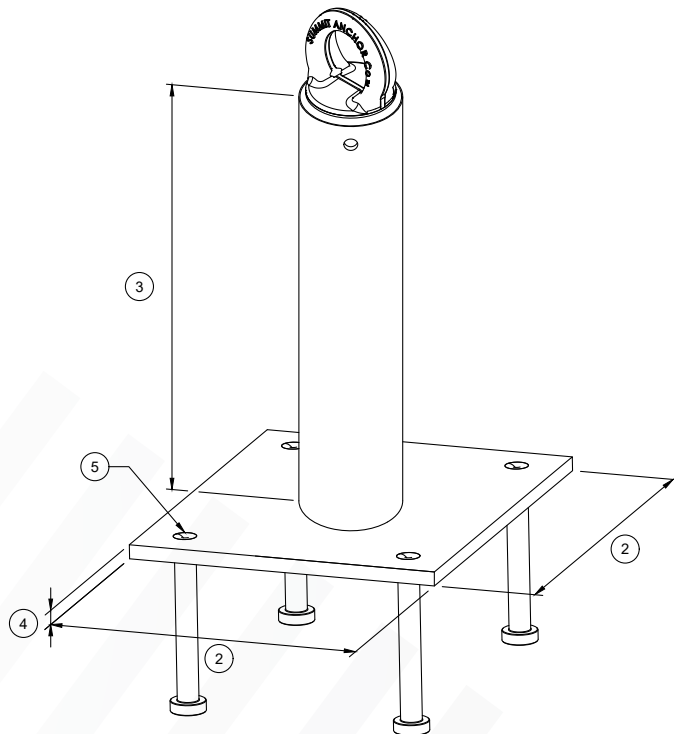
A-16

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



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SCALE: 1/4" = 1'-0"
DRAWN BY: M. Anderson
CHECKED BY: G. Smith
APPROVED BY:

NOMENCLATURE
SM-5

A-17

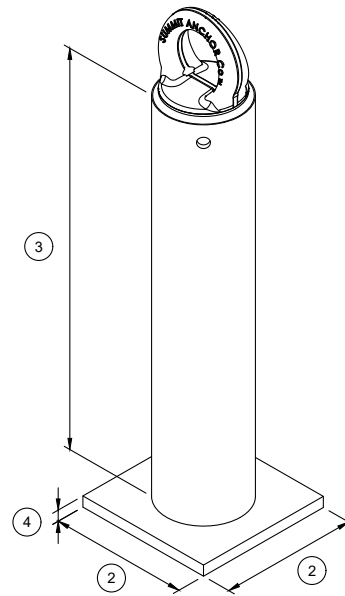


CONCRETE - EMBED ANCHORS

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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SCALE: 1/8" = 1'-0"
DRAWN BY: J.E. Anderson
CHECKED BY: G. Smith
APPROVED BY: J. Smith

NOMENCLATURE
SM-6

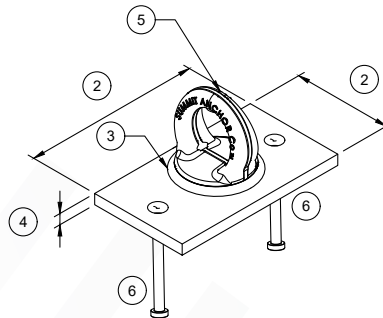
A-18

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



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

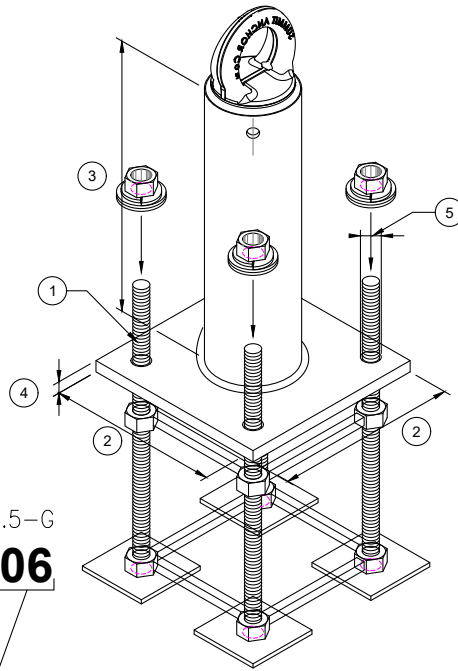
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SCALE: 1/8" = 1'-0"
DRAWN BY: J.E. Anderson
CHECKED BY: G. Smith
APPROVED BY: J. Smith

NOMENCLATURE
SM-85

A-19

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

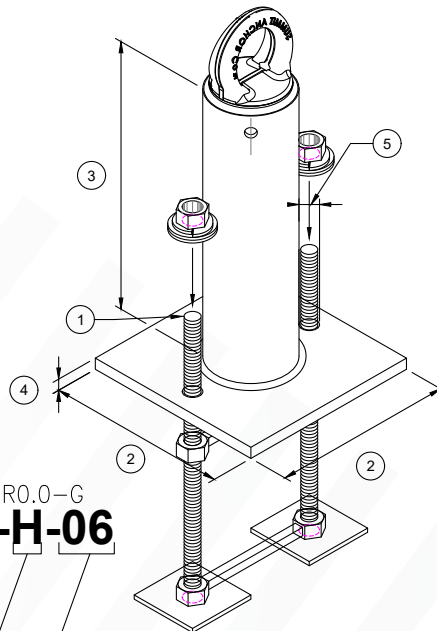
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 4035 Macomber Court, Suite 1 | Jackson, MS 39211
 P: (800) 372-1098 | F: (601) 952-5800
 www.summitanchor.com

STATE: MS
 PROJECT NO: 4035-0001
 DESIGNED BY: C. Smith
 APPROVED BY: C. Smith

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

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STATE: MS
 PROJECT NO: 4035-0001
 DESIGNED BY: C. Smith
 APPROVED BY: C. Smith

CIP CAGES

A-21



SM-1 Series Anchors - 4 Bolt Pattern

[illegible][illegible]

ROOF ANCHOR BOLTED THROUGH CONCRETE SLAB

Summit Anchor Co.

4507 Metropolitan Ct., Suite F, Frederick, MD 21704
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 Toll Free: 800.372.1098 Web: www.summitanchor.com

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SUMMIT STANDARD									
MODEL	MOLE SIZE IN BASE PLATE	TUBE LENGTH (L)	PIPE SIZE (P.S.)	BASE PLATE SIZE(B.P.)	HOLE SPACING (H.S.)	WELD SIZE (W.S.)	MIN SLAB THICKNESS (M.S.)	(TRA) =TRA-XX-XX	MIN. EDGE DISTANCE (E@)
SM-1-8-12-12-06	3/4"	12"	3/8" O.D. SCH.40, x 216"	8" X 8" X 1/2"	6"	1/8"	2,000-4.50" 3,000-4.75" 4,000-4.00" 4,500-4.00" 5,000-3.75" 2,000-4.50" 3,000-3.50" 4,000-3.00" 4,500-3.00" 5,000-2.75"	1/8" X XX-4"	30"
SM-1-10-12-08-06	3/4"	12"	3/8" O.D. SCH.40, x 216"	10" X 10" X 5/8"	8"	1/8"	2,000-4.50" 3,000-3.50" 4,000-3.00" 4,500-3.00" 5,000-2.50"	1/8" X XX-4"	24"
SM-1-12-12-08-06	3/4"	12"	3/8" O.D. SCH.40, x 216"	12" X 12" X 5/8"	10"	1/8"	2,000-4.50" 3,000-3.50" 4,000-3.00" 4,500-3.00" 5,000-2.50"	1/8" X XX-4"	24"
SM-1-14-12-08-06	3/4"	12"	3/8" O.D. SCH.40, x 216"	14" X 14" X 5/8"	12"	1/8"	2,000-4.50" 3,000-3.50" 4,000-3.00" 4,500-2.50" 5,000-2.50"	1/8" X XX-4"	24"
SM-1-16-12-08-06	3/4"	12"	3/8" O.D. SCH.40, x 216"	16" X 16" X 5/8"	14"	1/8"	2,000-4.50" 3,000-3.50" 4,000-3.00" 4,500-2.50" 5,000-2.50"	1/8" X XX-4"	12"
SM-1-10-18-08-06	3/4"	18"	3/8" O.D. SCH.80, x 300"	10" X 10" X 5/8"	8"	1/8"	2,000-4.50" 3,000-4.75" 4,000-4.00" 4,500-3.75" 5,000-3.75" 2,000-4.50" 3,000-3.50" 4,000-3.00" 4,500-3.00" 5,000-2.50"	1/8" X XX-4"	24"
SM-1-12-18-08-06	3/4"	18"	3/8" O.D. SCH.80, x 300"	12" X 12" X 5/8"	10"	1/8"	2,000-4.50" 3,000-4.75" 4,000-4.00" 4,500-3.75" 5,000-3.75" 2,000-4.50" 3,000-3.50" 4,000-3.00" 4,500-3.00" 5,000-2.50"	1/8" X XX-4"	24"
SM-1-14-18-08-06	3/4"	18"	3/8" O.D. SCH.80, x 300"	14" X 14" X 5/8"	12"	1/8"	2,000-4.50" 3,000-4.75" 4,000-4.00" 4,500-3.75" 5,000-3.75" 2,000-4.50" 3,000-3.50" 4,000-3.00" 4,500-3.00" 5,000-2.50"	1/8" X XX-4"	12"
SM-1-16-18-08-06	3/4"	18"	3/8" O.D. SCH.80, x 300"	16" X 16" X 5/8"	14"	1/8"	2,000-4.50" 3,000-4.75" 4,000-4.00" 4,500-3.75" 5,000-3.75"	1/8" X XX-4"	12"
SM-1-10-24-34-06	3/4"	24"	3/8" O.D. SCH.80, x 300"	10" X 10" X 3/4"	8"	1/8"	3,000-6.00" 4,000-6.00" 4,500-5.75" 5,000-4.50"	1/8" X XX-4"	26"
SM-1-14-24-34-06	3/4"	24"	3/8" O.D. SCH.80, x 300"	14" X 14" X 3/4"	12"	1/8"	2,000-4.25" 3,000-3.75" 4,000-3.25" 4,500-3.25" 5,000-3.00" 2,000-4.25" 3,000-3.75" 4,000-3.00" 4,500-3.00" 5,000-3.00"	1/8" X XX-4"	24"
SM-1-16-36-34-07	7/8"	36"	4/8" O.D. SCH.80, x 337"	16" X 16" X 3/4"	13"	1/8"	2,000-4.75" 3,000-4.00" 4,000-3.75" 4,500-3.50" 5,000-3.00"	1/8" X XX-4"	38"
SM-1-18-45-78-07	7/8"	45"	4/8" O.D. SCH.80, x 337"	18" X 18" X 7/8"	13"	1/8"	3,000-4.75" 4,000-4.25" 4,500-4.00" 5,000-4.00"	1/8" X XX-4"	30"

SM-1-8-12-12-06

○ HOLE PATTERN

○ PLATE SIZE SQUARE

○ TUBE LENGTH

○ PLATE THICKNESS

○ HOLE SIZE

FOR: 801567, 801568, 801576

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 Fax: 301.620.9819
 Toll Free: 800.372.1098
www.summitanchor.com

Summit Anchor Co.

MARKETING DRAWING FOR THRU-BOLTED ANCHORS

PROJECT: **SM-1-xx-xx** DRAWING: **A-1** PAGE: **NO. 2** of **1**

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Summit Anchor Co.

MARKETING DRAWING FOR THRU-BOLTED ANCHORS

PROJECT: **SM-1-xx-xx** DRAWING: **A-1** PAGE: **NO. 2** of **1**

ANCHOR MOUNTED WITH 4 PROXY FASTENERS - RE-500V3

Summit Anchor Co.

6836 English Muffin Way, Suite A, Frederick, MD 21703

Tel: 301.874.4911, Fax: 301.620.9819

Toll Free: 800.372.1098 Web: www.summitanchors.com

*Your one stop provider for all fall protection,

supending maintenance equipment, installation and testing."

NOTES:

- USING 3-1/2" O.D. WHERE POSSIBLE
- 4,000 PSI MIN. NORMAL WEIGHT CONCRETE (140-150 LB/FT³ (2240-2400 KG/M³).

SUMMIT STANDARD - EPOXY RE-500V3

MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (T)	PIPE SIZE (P)	BASE PLATE SIZE(B)	HOLE SPACING (S)	TUBE TO BASE WELD SIZE (W)	MIN. EMBEDMENT DEPTH (E)	MIN. SLAB THICKNESS (SH)	HILT HAS ROD (H)	MIN. EDGE DISTANCE (ED)
SM-1-8-0-12-06	3/4"	0"	N/A	8" X 8" X 1/2"	6"	N/A	6"	8"	Ø 8 X 7-5/8"	12"
SM-1-8-6-12-06	3/4"	6"	3/4" O.D. SCH.40, x 210"	8" X 8" X 1/2"	6"	1/2"	6"	8"	Ø 8 X 7-5/8"	12"
SM-1-10-15-58-06	3/4"	15"	3/4" O.D. SCH.40, x 210"	10" X 10" X 5/8"	8"	1/2"	6"	8"	Ø 8 X 7-5/8"	12"
SM-1-10-18-34-06	3/4"	18"	3/4" O.D. SCH.80, x 300"	10" X 10" X 3/4"	8"	1/2"	6.5"	8"	Ø 8 X 10"	18"
SM-1-10-24-34-06	3/4"	24"	3/4" O.D. SCH.80, x 300"	10" X 10" X 3/4"	8"	1/2"	7.5"	9"	Ø 8 X 10"	24"
SM-1-12-36-78-06	3/4"	36"	4/3" O.D. SCH.80, x 333"	12" X 12" X 7/8"	10"	1/2"	7.5"	9"	Ø 8 X 12"	30"
SM-1-13-45-78-06	3/4"	45"	4/3" O.D. SCH.80, x 333"	12" X 13" X 7/8"	11"	1/2"	8.5"	10"	Ø 8 X 12"	30"

SUMMIT STANDARD - EPOXY HVU2 CAPSULES

MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (T)	PIPE SIZE (P)	BASE PLATE SIZE(B)	HOLE SPACING (S)	TUBE TO BASE WELD SIZE (W)	MIN. EMBEDMENT DEPTH (E)	MIN. SLAB THICKNESS (SH)	HILT HAS ROD (H)	MIN. EDGE DISTANCE (ED)
SM-1-8-0-12-06	3/4"	0"	N/A	8" X 8" X 1/2"	6"	N/A	5"	7"	Ø 8 X 7-5/8"	12"
SM-1-10-12-58-06	3/4"	12"	3/4" O.D. SCH.40, x 210"	10" X 10" X 5/8"	8"	1/2"	5"	7"	Ø 8 X 7-5/8"	30"
SM-1-12-18-58-06	3/4"	18"	3/4" O.D. SCH.80, x 300"	12" X 12" X 5/8"	10"	1/2"	5"	7"	Ø 8 X 7-5/8"	38"
SM-1-14-24-34-06	3/4"	24"	3/4" O.D. SCH.80, x 300"	14" X 14" X 3/4"	12"	1/2"	5"	7"	Ø 8 X 7-5/8"	36"
SM-1-17-36-34-06	3/4"	36"	4/3" O.D. SCH.80, x 333"	17" X 17" X 3/4"	10"	1/2"	5"	8"	Ø 8 X 7-5/8"	30"
SM-1-20-45-34-06	3/4"	45"	4/3" O.D. SCH.80, x 333"	20" X 20" X 3/4"	18"	1/2"	5"	8"	Ø 8 X 7-5/8"	26"

SM-1-8-12-12-06

○ = 4 BOLT PATTERN

○ = PLATE SIZE SQUARE

○ = TUBE LENGTH

○ = PLATE THICKNESS

○ = HOLE SIZE

FOR: #0104, #01108, #01116, #01242, #01268,

#01307, #01308, #01309, #01316

FOR: #0104, #01108, #01116, #01242, #01268,

#01307, #01308, #01309, #01316

FOR: #0104, #01108, #01116, #01242, #01268,

#01307, #01308, #01309, #01316

FOR: #0104, #01108, #01116, #01242, #01268,

#01307, #01308, #01309, #01316

FOR: #0104, #01108, #01116, #01242, #01268,

#01307, #01308, #01309, #01316

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Frederick, MD 21703
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Toll Free: 800.372.1098 Web: www.summitanchors.com

DRAWING NO. 1104 SCALE: 1:1



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ROOF ANCHOR MOUNTED WITH UNDERCUT FASTENERS

SUMMIT MODEL #: SM-1 ROOF ANCHOR

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

1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
5,000 LB. TENSILE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)

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-HDA-TF M10X100/20 - ITEM 331545:** SHERADIZED 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

SM-1-X-X-X **A-1** **PLOT SCALE: 1:1**

PAGE NO. 1 OF 2

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ROOF ANCHOR MOUNTED WITH UNDERCUT FASTENERS

SUMMIT MODEL #: SM-1 ROOF ANCHOR

SUMMIT STANDARD											
MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (Tf)	PIPE SIZE (P.S.)	WELD SIZE (W.S.)	MIN. SLAB THICKNESS (Sh)	CONCRETE PSI	MIN. BASE PLATE THICKNESS (B.P.)	HOLE SIZE (Hs)	MIN. EMBEDMENT (Eb)	MIN. EDGE DISTANCE (Ed)	MIN. BOLT EDGE DISTANCE (Db)
SM-1-10-12-58-07	7/8"	12"	3 1/2" O.D. SCH. 40, x 216"	1/2"	7-3/4"	3,000	10"x10"x6"	7.5"	3-3/4"	14"	1.25"
						4,000	10"x10"x6"	7.5"	3-3/4"	12"	1.25"
						5,000	10"x10"x6"	7.5"	3-3/4"	12"	1.25"
						6,000	10"x10"x6"	7.5"	3-3/4"	12"	1.25"
SM-1-10-14-58-07	7/8"	14"	3 1/2" O.D. SCH. 40, x 216"	1/2"	7-3/4"	3,000	10"x10"x6"	7.5"	3-3/4"	27"	1.25"
						4,000	10"x10"x6"	7.5"	3-3/4"	12"	1.25"
						5,000	10"x10"x6"	7.5"	3-3/4"	12"	1.25"
						6,000	10"x10"x6"	7.5"	3-3/4"	12"	1.25"
SM-1-12-6-58-07	7/8"	6"	3 1/2" O.D. SCH. 40, x 216"	1/2"	9"	4,000	12"x12"x6"	9.5"	5"	5"	2.50"
						5,000	12"x12"x6"	9.5"	5"	5"	2.50"
SM-1-12-12-58-07	7/8"	6"	3 1/2" O.D. SCH. 40, x 216"	1/2"	9"	4,000	12"x12"x6"	9.5"	3-3/4"	12"	1.25"
						5,000	12"x12"x6"	9.5"	3-3/4"	12"	1.25"
SM-1-12-16-58-07	7/8"	6"	3 1/2" O.D. SCH. 40, x 216"	1/2"	7-3/4"	4,000	12"x12"x6"	9.5"	3-3/4"	12"	1.25"
						5,000	12"x12"x6"	9.5"	3-3/4"	12"	1.25"
SM-1-12-18-58-07	7/8"	6"	3 1/2" O.D. SCH. 40, x 216"	1/2"	7-3/4"	4,000	12"x12"x6"	9.5"	3-3/4"	12"	1.25"
						5,000	12"x12"x6"	9.5"	3-3/4"	12"	1.25"
SM-1-12-18-58-07	7/8"	18"	3 1/2" O.D. SCH. 80, x 300"	3/8"	7-3/4"	4,000	14"x14"x6"	11.5"	3-3/4"	20"	1.25"
						5,000	14"x14"x6"	11.5"	3-3/4"	20"	1.25"
SM-1-14-24-34-07	7/8"	24"	3 1/2" O.D. SCH. 80, x 300"	3/8"	7-3/4"	4,000	14"x14"x6"	11.5"	3-3/4"	20"	1.25"
						5,000	14"x14"x6"	11.5"	3-3/4"	20"	1.25"

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

SM-1-X-X-X **A-1** **PLOT SCALE: 1:1**

PAGE NO. 2 OF 2

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ROOF ANCHOR MOUNTED WITH HILTI KWIK BOLTS

SUMMIT MODEL #: SM-1 ROOF ANCHOR

1. **SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
2. **(Ps) 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-KB T2:** KWIK BOLT T2 STAINLESS STEEL EXPANSION ANCHOR ASSEMBLY:
a) 304 STAINLESS STEEL HEAVY HEX NUT
b) 1/4" 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

SM-1-XXXXXX **A-1** **PLOT SCALE: 1:1**

PAGE NO. 1 OF 2

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ROOF ANCHOR MOUNTED WITH HILTI KWIK BOLTS

SUMMIT MODEL #: SM-1 ROOF ANCHOR

SUMMIT STANDARD - NORMAL WEIGHT CONCRETE - HILTI KWIK BOLT T2 1/2"											
MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (Tf)	PIPE SIZE (P.S.)	BASE PLATE SIZE (B.P.)	HOLE SPACING (Hs)	HOLE PITCHING (Hp)	MIN. SLAB THICKNESS (Sh)	MIN. BASE PLATE THICKNESS (B.P.)	HOLE SIZE (Hs)	MIN. EMBEDMENT (Eb)	MIN. EDGE DISTANCE (Ed)
SM-1-8-12-58	3/4"	12"	3 1/2" O.D. SCH. 40, x 216"	8" x 8" x 8"	8"	F	3,000-4,000	3,000-4,000	3,000-4,000	3,000-4,000	3,000-4,000
							4,000-5,000	4,000-5,000	4,000-5,000	4,000-5,000	
							5,000-6,000	5,000-6,000	5,000-6,000	5,000-6,000	
							6,000-7,000	6,000-7,000	6,000-7,000	6,000-7,000	
SM-1-10-12-58-06	3/4"	12"	3 1/2" O.D. SCH. 40, x 216"	10" x 10" x 8"	10"	F	3,000-4,000	3,000-4,000	3,000-4,000	3,000-4,000	
							4,000-5,000	4,000-5,000	4,000-5,000	4,000-5,000	
							5,000-6,000	5,000-6,000	5,000-6,000	5,000-6,000	
							6,000-7,000	6,000-7,000	6,000-7,000	6,000-7,000	
SM-1-12-12-58-06	3/4"	12"	3 1/2" O.D. SCH. 40, x 216"	12" x 12" x 8"	12"	F	3,000-4,000	3,000-4,000	3,000-4,000	3,000-4,000	
							4,000-5,000	4,000-5,000	4,000-5,000	4,000-5,000	
							5,000-6,000	5,000-6,000	5,000-6,000	5,000-6,000	
							6,000-7,000	6,000-7,000	6,000-7,000	6,000-7,000	
SM-1-14-18-58-06	3/4"	18"	3 1/2" O.D. SCH. 40, x 216"	14" x 14" x 8"	14"	F	3,000-4,000	3,000-4,000	3,000-4,000	3,000-4,000	
							4,000-5,000	4,000-5,000	4,000-5,000	4,000-5,000	
							5,000-6,000	5,000-6,000	5,000-6,000	5,000-6,000	
							6,000-7,000	6,000-7,000	6,000-7,000	6,000-7,000	

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

SM-1-XXXXXX **A-1** **PLOT SCALE: 1:1**

PAGE NO. 2 OF 2

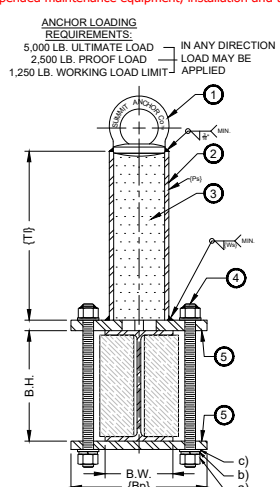




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ROOF ANCHOR WRAPPED AROUND STEEL BEAM



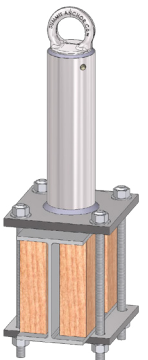
ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT

IN ANY DIRECTION
LOAD MAY BE APPLIED

- 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
a) F 594 HEX NUT
b) 18-8 STAINLESS STEEL LOCK WASHER
c) F 436 HARDENER GALVANIZED FLAT WASHER
- SM-PLT:** BOTTOM PLATE TO FIT BEAM.

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

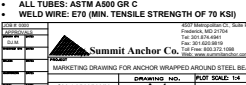
- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 1,250 LB. WORKING LOAD LIMIT (ALL DIMENSIONS)
b) 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
c) 5,000 LB. ULTIMATE LOAD (TEST 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 (e.g. SEE MSHA-141 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.
- 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 DETAIL SHALL BE FULLY DESIGNED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, TORSION, AND AXIAL FORCES ETC. THE RESULT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE CONNECTION DETAILS INCLUDING FIELD WELDS, CONCRETE COMPRESSION STRENGTH, REINFORCING STEEL, DETAILING LOCAL AND GLOBAL BUCKLING, CRACKING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING/ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY ENR. IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IS NOT A REPRESENTATION ASSOCIATED WITH THE LISTING OF PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION, AND PROPERTIES OF THE ROOF BEAM. THE ANALYSIS IS AVAILABLE FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.



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)



MARKING DRAWING FOR ANCHOR WRAPPED AROUND STEEL BEAM

SM-1-XX-XX A-1 PAGE NO. 1 OF 2



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ROOF ANCHOR WRAPPED AROUND STEEL BEAM

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 1/8"	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 1/8"	5"
SM-1-12-2-58-06	3/4"	2"	3/4" O.D. SCH.40, x .216"	12" X 12" X 5/8"	1/4"	9 1/8"	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 1/8"	4"
SM-1-10-12-58-06	3/4"	12"	3/4" O.D. SCH.40, x .216"	10" X 10" X 5/8"	1/4"	7 1/8"	5"
SM-1-12-12-58-06	3/4"	12"	3/4" O.D. SCH.40, x .216"	12" X 12" X 5/8"	1/4"	9 1/8"	6 1/2"
SM-1-8-18-58-06	3/4"	18"	3/4" O.D. SCH.80, x .300"	8" X 8" X 5/8"	5/16"	5 1/8"	4"
SM-1-10-18-58-06	3/4"	18"	3/4" O.D. SCH.80, x .300"	10" X 10" X 5/8"	5/16"	7 1/8"	5"
SM-1-12-18-58-06	3/4"	18"	3/4" O.D. SCH.80, x .300"	12" X 12" X 5/8"	5/16"	9 1/8"	6 1/2"
SM-1-8-24-34-06	3/4"	24"	3/4" O.D. SCH.80, x .300"	8" X 8" X 3/4"	5/16"	5 1/8"	4"
SM-1-10-24-34-06	3/4"	24"	3/4" O.D. SCH.80, x .300"	10" X 10" X 3/4"	5/16"	7 1/8"	5"
SM-1-12-24-34-06	3/4"	24"	3/4" O.D. SCH.80, x .300"	12" X 12" X 3/4"	5/16"	9 1/8"	6 1/2"

SM-1-8-12-12-06

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

PCN: #01550, #01589

Summit Anchor Co. MARKETING DRAWING FOR ANCHOR WRAPPED AROUND STEEL BEAM

SM-1-XX-XX A-2 PAGE NO. 2 OF 2

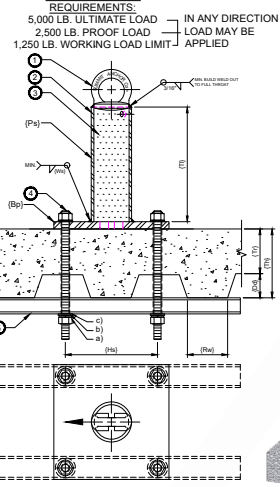


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ROOF ANCHOR WRAPPED AROUND CORRUGATED DECK

SUMMIT MODEL #: SM-1 ROOF ANCHOR



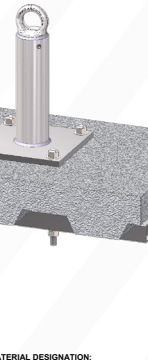
ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT

IN ANY DIRECTION
LOAD MAY BE APPLIED

- 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
a) F 594 HEX NUT
b) 18-8 STAINLESS STEEL LOCK WASHER
c) F 436 HARDENER GALVANIZED FLAT WASHER
- SM-PLT-TS:** 2"x2"x1/8" TUBE STEEL, SPAN A MINIMUM OF 3 BOTTOM RIBS

NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

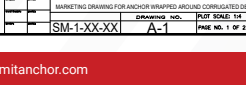
- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 1,250 LB. WORKING LOAD LIMIT (ALL DIMENSIONS)
b) 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
c) 5,000 LB. ULTIMATE LOAD (TEST 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 (e.g. SEE MSHA-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, PER AMERICAN CONCRETE INSTITUTE.
- 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 IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAIL SHALL BE FULLY DESIGNED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, TORSION, AND AXIAL FORCES ETC. THE RESULT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE CONNECTION DETAILS INCLUDING FIELD WELDS, CONCRETE COMPRESSION STRENGTH, REINFORCING STEEL, DETAILING LOCAL AND GLOBAL BUCKLING, CRACKING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- ENGINEERING/ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY ENR. IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IS NOT A REPRESENTATION ASSOCIATED WITH THE LISTING OF PROPOSED BUILDING, EXISTING OR PROPOSED BUILDING CONFIGURATION, AND PROPERTIES OF THE CORRUGATED DECK. THE ANALYSIS IS AVAILABLE FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.



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)



MARKETING DRAWING FOR ANCHOR WRAPPED AROUND CORRUGATED DECK

SM-1-XX-XX A-1 PAGE NO. 1 OF 2



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ROOF ANCHOR WRAPPED AROUND CORRUGATED DECK

SUMMIT MODEL #: SM-1 ROOF ANCHOR

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 5/8"	7/8"	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 5/8"	7/8"	8"	2"	4"	6"
SM-1-10-24-34-06	3/4"	24"	3/4" O.D. SCH. 80, x .300"	5/16"	10" X 10" X 3/4"	7/8"	8"	3"	5"	8"
SM-1-10-36-34-06	3/4"	36"	5/8" O.D. SCH. 80, x .337"	5/16"	10" X 10" X 3/4"	7/8"	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 5/8"	5"	10"	2"	2-1/2"	4-1/2"

SM-1-8-12-12-06

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

PCN: #0073, #01398, #01481

Summit Anchor Co. MARKETING DRAWING FOR ANCHOR WRAPPED AROUND CORRUGATED DECK

SM-1-XX-XX A-2 PAGE NO. 2 OF 2

CONTACT US FOR MORE INFORMATION:

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info@summitanchor.com

Page 21

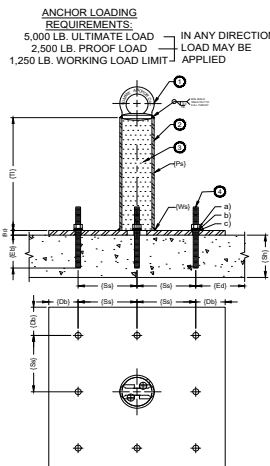
SM-1 Series Anchors - Custom



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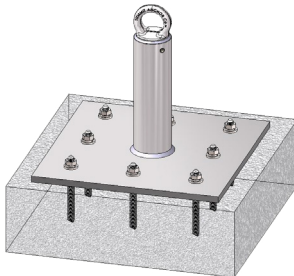
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ROOF ANCHOR MOUNTED WITH 8 EPOXY FASTENERS



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

- 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**
 - F 504 HEX NUT
 - 18-8 STAINLESS STEEL LOCK WASHER
 - 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 INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
a) 5,000 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
c) 1,250 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. ANCHORS MUST BE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED BY THE MANUFACTURER. INSTALLATION OF ANCHORS MUST BE SUPERVISED BY 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 AND BE TESTED IN A GREEN CONSTRUCTION ENVIRONMENT.
- THE ADHESIVE OR EPOXY SHALL BE RATED FOR LIVE, DYNAMIC LOADS BY THE FASTENER 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 SYSTEMS WITH AN AMERICAN, 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 DRAWINGS INCLUDING SHEAR, TENSION, AND AXIAL FORCES ETC. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE ANCHORS TO THE STRUCTURE. THE BUILDING DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD, CRAWLING ANCHORS AND ANCHORS CONNECTIONS. FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDED CONNECTIONS, STEEL BRACING, ANCHORS OR MECHANICAL FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- THE ANCHOR TABLE WAS PREPARED USING HILTI'S PROSPER SOFTWARE. EACH ANCHOR MUST BE ANALYZED AND APPROVED ON A PROJECT-BY-PROJECT BASIS BY A PROFESSIONAL ENGINEER WHO IS REGISTERED AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

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)

Summit Anchor Co.
ANCHORS MOUNTED WITH EPOXY FASTENERS & BOLTS PATTERN
DRAWING NO. **SM-1-xx-xx** PLOT SCALE: 1:1 PAGE NO. 1 OF 2

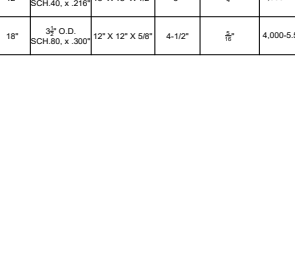


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ROOF ANCHOR MOUNTED WITH 8 EPOXY FASTENERS

SUMMIT STANDARD											
MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (TL)	PIPE SIZE (Pa)	BASE PLATE SIZE (Bp)	HOLE SPACING (Sh)	TUBE TO BASE WELD SIZE (Wb)	MIN. EMBEDMENT DEPTH (Ed)	MIN. SLAB THICKNESS (Sn)	HILTI HAS ROD (Hr)	MIN. EDGE DISTANCE (Ed)	BOLT EDGE DISTANCE (Db)
SM-1-18-12-12-05	5/8"	12"	3/4" O.D. SCH.40, x 2.16"	18" X 18" X 1/2"	6"	1/2"	4,000-2.75"	4,000-4.50"	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"	5/8"	4,000-5.50"	4,000-9.00"	2" Ø X 7-1/2"	12"	1-1/2"



ANCHOR 3D VIEW

SM-1-8-12-12-06

- Ø = BOLT PATTERN
- = PLATE SIZE SQUARE
- TL = TUBE LENGTH
- = PLATE THICKNESS
- Ø = HOLE SIZE

Summit Anchor Co.
ANCHORS MOUNTED WITH EPOXY FASTENERS & BOLTS PATTERN
DRAWING NO. **SM-1-xx-xx** PLOT SCALE: 1:1 PAGE NO. 2 OF 2

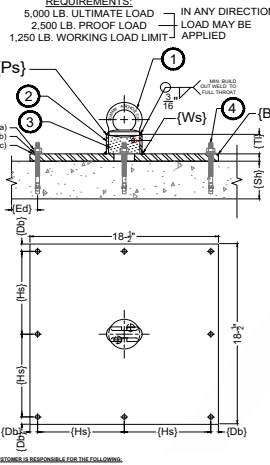


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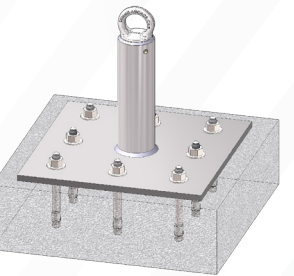
ROOF ANCHOR MOUNTED WITH 8 HILTI KWIK BOLTS

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
1,250 LB. WORKING LOAD LIMIT

- SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
- (Pa) 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:**
 - 304 STAINLESS STEEL HEAVY HEX NUT
 - 1/8-8 STAINLESS STEEL LOCK WASHER
 - F 436 HARDENER GALVANIZED FLAT WASHER



ANCHOR 3D VIEW

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)

Summit Anchor Co.
ANCHORS MOUNTED WITH EPOXY FASTENERS & BOLTS PATTERN
DRAWING NO. **SM-1-xx-xx** PLOT SCALE: 1:1 PAGE NO. 1 OF 2

Summit Anchor Co.
ANCHORS MOUNTED WITH EPOXY FASTENERS & BOLTS PATTERN
DRAWING NO. **SM-1-xx-xx** PLOT SCALE: 1:1 PAGE NO. 2 OF 2



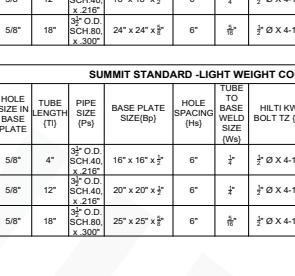
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ROOF ANCHOR MOUNTED WITH 8 HILTI KWIK BOLTS

SUMMIT STANDARD - NORMAL WEIGHT CONCRETE											
MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (TL)	PIPE SIZE (Pa)	BASE PLATE SIZE (Bp)	HOLE SPACING (Sh)	TUBE TO BASE WELD SIZE (Wb)	HILTI KWIK BOLT TZ (Hr)	PSI + MIN SLAB THICKNESS (Sn)	MIN. EFFECTIVE EMBEDMENT DEPTH (He)	MIN. EDGE DISTANCE (Ed)	BOLT EDGE DISTANCE (Db)
SM-1-18-12-12-04	1/2"	2"	3/4" O.D. SCH.40, x 2.16"	18" X 18" X 1/2"	6"	1/2"	2" Ø X 5"	3000-4.00"	2"	18"	34"
SM-1-12-14-12-05	5/8"	4"	3/4" O.D. SCH.40, x 2.16"	12" X 12" X 1/2"	5"	1/2"	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 2.16"	18" X 18" X 1/2"	6"	1/2"	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"	5/8"	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 (Pa)	BASE PLATE SIZE (Bp)	HOLE SPACING (Sh)	TUBE TO BASE WELD SIZE (Wb)	HILTI KWIK BOLT TZ (Hr)	PSI + MIN SLAB THICKNESS (Sn)	MIN. EFFECTIVE EMBEDMENT DEPTH (He)	MIN. EDGE DISTANCE (Ed)	BOLT EDGE DISTANCE (Db)
SM-1-16-4-12-05	5/8"	4"	3/4" O.D. SCH.40, x 2.16"	16" X 16" X 1/2"	6"	1/2"	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 2.16"	20" X 20" X 1/2"	6"	1/2"	2" Ø X 4-1/2"	/	2"	41"	1"
SM-1-25-18-58-05	5/8"	18"	3/4" O.D. SCH.80, x .300"	25" X 25" X 1/2"	6"	5/8"	2" Ø X 4-1/2"	/	2"	82"	3-1/2"



ANCHOR 3D VIEW

SM-1-8-12-12-06

- Ø = BOLT PATTERN
- = PLATE SIZE SQUARE
- TL = TUBE LENGTH
- = PLATE THICKNESS
- Ø = HOLE SIZE

Summit Anchor Co.
ANCHORS MOUNTED WITH EPOXY FASTENERS & BOLTS PATTERN
DRAWING NO. **SM-1-xx-xx** PLOT SCALE: 1:1 PAGE NO. 2 OF 2

CONTACT US FOR MORE INFORMATION:

www.summitanchor.com

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info@summitanchor.com

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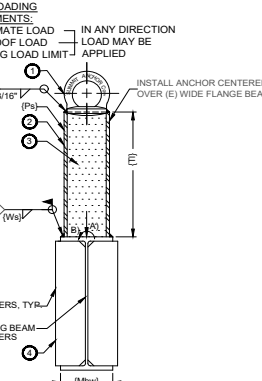
SM-4 Series - Weld-On Anchor



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

IN ANY DIRECTION LOAD MAY BE APPLIED



MIN. BUILD WELD OUT TO FULL THROAT 3/16"

INSTALL ANCHOR CENTERED OVER (B) WIDE FLANGE BEAM

MIN. (W_{SL})

STIFFENER PLATE BY OTHERS, TYP.

EXISTING BEAM BY OTHERS

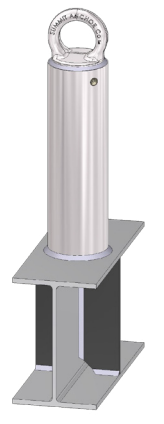
(M_{bw})

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 ANCHOR(S) 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 INCLUDES 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 OUT OF THIS SCOPE. 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 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)

MODEL	(T) TUBE LENGTH	HSS TUBE SIZE (P _s) (F _y =46 KSI)	(B _p) PLATE SIZE	(M _{bw}) MINIMUM BEAM WIDTH	SIZE OF WELD (W _s)	A) KIPS	B) KIP-IN
SM-4-X-X	A-1	18"	4-1/2"x8"x3/8"	5-1/2"	5/8"	5	107

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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

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

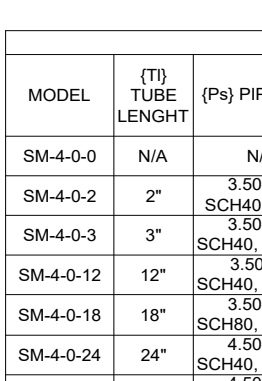
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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT

IN ANY DIRECTION LOAD MAY BE APPLIED



MIN. BUILD WELD OUT TO FULL THROAT 3/16"

INSTALL ANCHOR CENTERED OVER (B) WIDE FLANGE BEAM

MIN. (W_{SL})

STIFFENER PLATE BY OTHERS, TYP.

EXISTING BEAM BY OTHERS

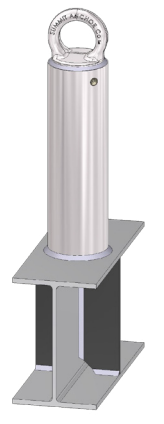
(M_{bw})

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 ANCHOR(S) 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 INCLUDES 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 OUT OF THIS SCOPE. 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 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)

MODEL	(T) TUBE LENGTH	HSS TUBE SIZE (P _s) (F _y =46 KSI)	(B _p) PLATE SIZE	(M _{bw}) MINIMUM BEAM WIDTH	SIZE OF WELD (W _s)	A) KIPS	B) KIP-IN
SM-4-0-0	N/A	N/A	4-1/2"	5-1/2"	5/8"	5	4.0
SM-4-0-2	2"	3.50 O.D. SCH40, x .216	4"	5-1/2"	5/8"	5	26.3
SM-4-0-3	3"	3.50 O.D. SCH40, x W.216	4"	5-1/2"	5/8"	5	7.8
SM-4-0-12	12"	3.50 O.D. SCH40, x W.216	4"	5-1/2"	5/8"	5	19
SM-4-0-18	18"	3.50 O.D. SCH80, x W.300	4-1/8"	5-1/2"	5/8"	5	26.5
SM-4-0-24	24"	4.50 O.D. SCH40, x W.237	5"	5-1/2"	5/8"	5	34.0
SM-4-0-36	36"	4.50 O.D. SCH80, x W.337	5-1/8"	5-1/2"	5/8"	5	49
SM-4-0-45	45"	5.563 O.D. SCH40, x W.258	6-5/16"	5-1/2"	5/8"	5	60.3

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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

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

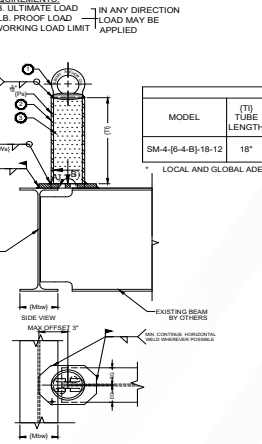
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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT

IN ANY DIRECTION LOAD MAY BE APPLIED



MIN. BUILD WELD OUT TO FULL THROAT 3/16"

INSTALL ANCHOR CENTERED OVER (B) WIDE FLANGE BEAM

MIN. (W_{SL})

STIFFENER PLATE BY OTHERS, TYP.

EXISTING BEAM BY OTHERS

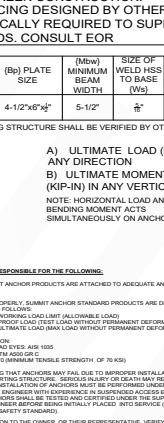
(M_{bw})

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 ANCHOR(S) 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 INCLUDES 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 OUT OF THIS SCOPE. 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



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)

MODEL	(T) TUBE LENGTH	HSS TUBE SIZE (P _s) (F _y =46 KSI)	(B _p) PLATE SIZE	(M _{bw}) MINIMUM BEAM WIDTH	SIZE OF WELD (W _s)	A) KIPS	B) KIP-IN
SM-4-R-4-B-18-12	18"	3.50 O.D. x 300	4-1/2"x8"x3/8"	5-1/2"	5/8"	5	107

Summit Anchor Company Inc.
Frederick, MD 21704
Tel: 301.874.4841, Fax: 301.620.9819
Toll Free: 800.372.1098 Web: www.summitanchor.com

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

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

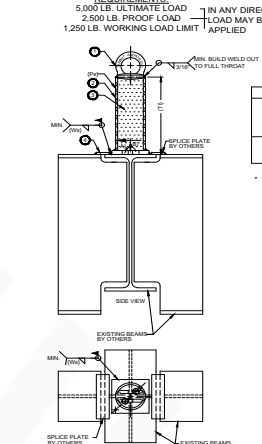
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ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT

IN ANY DIRECTION LOAD MAY BE APPLIED



MIN. BUILD WELD OUT TO FULL THROAT 3/16"

INSTALL ANCHOR CENTERED OVER (B) WIDE FLANGE BEAM

MIN. (W_{SL})

STIFFENER PLATE BY OTHERS, TYP.

EXISTING BEAM BY OTHERS

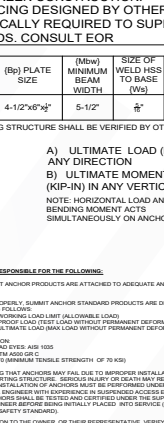
(M_{bw})

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 ANCHOR(S) 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 INCLUDES 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.
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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. BRACING DESIGNED BY OTHERS, TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT EOR



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)

MODEL	(T) TUBE LENGTH	HSS TUBE SIZE (P _s) (F _y =46 KSI)	(B _p) PLATE SIZE	(M _{bw}) MINIMUM BEAM WIDTH	SIZE OF WELD (W _s)	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"	5/8"	5	107

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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

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

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

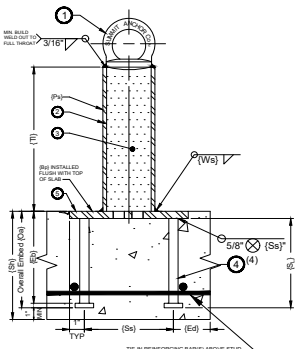
SM-5 Series - 4 Stud CIP Pattern Anchor



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"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

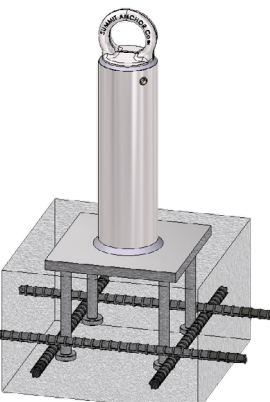


NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ASSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPLIANT STRUCTURE.
2. WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
4,125 LB. WORKING LOAD LIMIT (ALLOWABLE)
8,250 LB. PROOF LOAD LIMIT (LOAD WITHOUT PERMANENT DEFORMATION)
16,500 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 SUPERVISED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUPPORTED ACCESS EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE (i.e., SEE INCA-14.1 WINDOW CLEANING SAFETY STANDARD).
4. THE ANCHOR OR EPOXY SHALL BE RATED FOR LIVE DYNAMIC LOADS BY THE FACTORER. MANUFACTURER'S PROFESSIONAL ENGINEER SHALL SPECIFY THE FACTORS FOR THE ATTACHMENT OF THE ANCHOR TO THE STRUCTURE IN ACCORDANCE WITH STRENGTH DESIGN, PER AMERICAN CONCRETE INSTITUTE.
5. PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LAYOUT COMPLETES 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 LOADS INDICATED ON THE DRAWING INCLUDING MOMENT, SHEAR, TORSION AND LOADS, IMPACTS, ETC., THE PROJECT ENGINEER OR ARCHITECT, FOR THE BUILDING, IS RESPONSIBLE FOR THE DESIGN ELEMENTS BY THE CONNECTION OF THE ANCHOR TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: MAIN STRUCTURAL ELEMENTS INCLUDING VERTICAL AND HORIZONTAL LOADS, CHANGING MOMENTS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSION STRENGTH, REINFORCING STEEL, DETAILING/LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OF MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
7. THE ANCHOR TIE WAS PREPARED USING HLT'S PROPS SOFTWARE. EACH ANCHOR MUST BE ANALYZED AND APPROVED ON A PROJECT-BY-PROJECT BASIS BY A PROFESSIONAL ENGINEER WHO IS REGISTERED AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

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

1. SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
2. HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS AS REQUIRED FOR APPLICATION.
3. SM-FOM: OPTIONAL MOLDED URETHANE INSULATION INJECTED INSIDE H.S.S. TUBE REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
4. SM-STUD: 3/8" Ø NELSON STUDS, WELDED TO BASE PLATE, TOP AND BOTTOM.
5. SM-PLT: BASE PLATE SIZED AS REQUIRED FOR APPLICATION.



ANCHOR 3D VIEW

MATERIAL DESIGNATION:

- ALL 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-5-12-29-34	29"	4" O.D. SCH. 40, x .237"	12" X 12" X .500"	8"	8/16"	4.50"	5.00"	12"

MARKETING DRAWING FOR ANCHORS CAST IN PLACE WITH STUDS

SM-5-xx-xx DRAWING NO. A-1 PAGE NO. 1/1



Summit Anchor Co.
6836 English Muffin Way, Suite A Frederick, MD 21703
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."

NOTES:

- USING 3-1/2" O.D. WHERE POSSIBLE
- 4,000 PSI MIN. NORMAL WEIGHT CONCRETE (140-150 LB/FT³) (2240-2400 KG/M³)
- ASSUMES BOTTOM OF SLAB IS INTERIOR CONDITION
- IF BOTTOM OF SLAB IS EXTERIOR CONDITION THEN COVER MUST BE 2" FROM THE BOTTOM OF THE STUD TO THE BOTTOM OF THE SLAB.

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

MODEL	STUD SIZE (S)	TUBE LENGTH (TL)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	STUD SPACING (Ss)	TUBE TO BASE WELD SIZE (Ws)	STUD LENGTH (After weld) (L)	EFFECTIVE EMBEDMENT DEPTH (Eb) (TOP OF HEAD STUD TO TOP OF BASEPLATE)	OVERALL EMBEDMENT DEPTH (Oa) (TOP OF CONCRETE TO BOTTOM OF STUD)	MIN. SLAB THICKNESS (Sh) (ROUNDED TO THE NEXT INCH)	ONE EDGE MIN. DISTANCE (Ed)
SM-5-8-10-12-05	5/8"	0"	N/A	8" X 8" X 1/2"	6"	N/A	2.50"	2.69"	3"	4"	12"
SM-5-8-8-12-05	5/8"	8"	3 1/2" O.D. SCH. 40, x 216"	8" X 8" X 1/2"	6"	1/4"	4.00"	4.188"	4.50"	6"	12"
SM-5-8-12-58-05	5/8"	12"	3 1/2" O.D. SCH. 40, x 216"	8" X 8" X 5/8"	6"	1/4"	4.00"	4.313"	4.625"	6"	14"
SM-5-8-15-34-05	5/8"	15"	3 1/2" O.D. SCH. 40, x 216"	8" X 8" X 3/4"	6"	5/16"	5.00"	5.313"	5.625"	7"	12"
SM-5-8-16-34-05	5/8"	16"	3 1/2" O.D. SCH. 80, x .300"	8" X 8" X 3/4"	6"	5/16"	5.00"	5.313"	5.625"	7"	12"
SM-5-8-18-34-05	5/8"	18"	3 1/2" O.D. SCH. 80, x .300"	8" X 8" X 3/4"	8"	5/16"	6.00"	6.438"	6.75"	8"	12"
SM-5-10-22-34-05	5/8"	22"	3 1/2" O.D. SCH. 80, x .300"	10" X 10" X 3/4"	8"	5/16"	6.00"	6.438"	6.75"	8"	12"
SM-5-10-24-34-05	5/8"	24"	3 1/2" O.D. SCH. 80, x .300"	10" X 10" X 3/4"	8"	5/16"	6.00"	6.438"	6.75"	8"	12"
SM-5-10-25-34-05	5/8"	25"	4" O.D. SCH. 40, x .237"	10" X 10" X 3/4"	8"	5/16"	6.00"	6.438"	6.75"	8"	12"
SM-5-12-32-34-05	5/8"	32"	4" O.D. SCH. 40, x .237"	12" X 12" X 3/4"	10"	5/16"	6.00"	6.438"	6.75"	8"	12"
SM-5-12-36-78-05	5/8"	36"	4" O.D. SCH. 80, x .337"	12" X 12" X 7/8"	10"	3/8"	6.00"	6.53"	6.875"	8"	12"
SM-5-12-45-1-06	5/8"	45"	4" O.D. SCH. 80, x .337"	12" X 12" X 1"	10"	7/16"	6.375"	7.063"	7.375"	9"	12"

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

SM-5-8-16-34-05

HOLE AND STUD MODEL # GUIDE

03 = 3/8"
04 = 1/2"
05 = 5/8"
06 = 3/4"
07 = 1"
08 = 1 1/4"

FOR CONCRETE, TIMES APPLICATION
- PLATE SIZE SQUARE
- TUBE LENGTH
- PLATE THICKNESS
- STUD SIZE

MODEL	STUD SIZE (S)	TUBE LENGTH (TL)	PIPE SIZE (Ps)	BASE PLATE SIZE (Bp)	STUD SPACING (Ss)	TUBE TO BASE WELD SIZE (Ws)	STUD LENGTH (After weld) (L)	EFFECTIVE EMBEDMENT DEPTH (Eb) (TOP OF HEAD STUD TO TOP OF BASEPLATE)	OVERALL EMBEDMENT DEPTH (Oa) (TOP OF CONCRETE TO BOTTOM OF STUD)	MIN. SLAB THICKNESS (Sh) (ROUNDED TO THE NEXT INCH)	ONE EDGE MIN. DISTANCE (Ed)
SM-5-XX-XX-XX-XX	A-2										

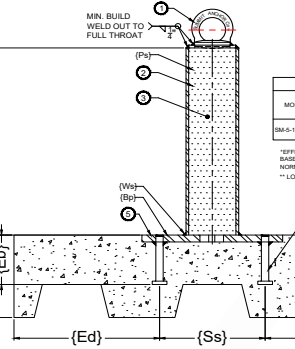
MARKETING DRAWING FOR ANCHORS CAST IN PLACE WITH STUDS

SM-5-XX-XX-XX-XX DRAWING NO. A-2 PAGE NO. 1/1



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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



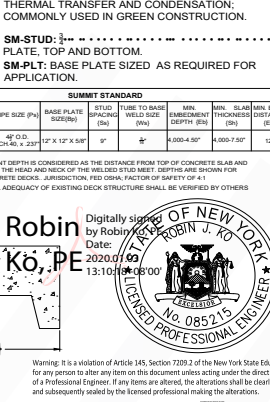
NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ASSURE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPLIANT STRUCTURE.
2. WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
4,125 LB. WORKING LOAD LIMIT (ALLOWABLE)
8,250 LB. PROOF LOAD LIMIT (LOAD WITHOUT PERMANENT DEFORMATION)
16,500 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
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4. THE ANCHOR OR EPOXY SHALL BE RATED FOR LIVE DYNAMIC LOADS BY THE FACTORER. MANUFACTURER'S PROFESSIONAL ENGINEER SHALL SPECIFY THE FACTORS FOR THE ATTACHMENT OF THE ANCHOR TO THE STRUCTURE IN ACCORDANCE WITH STRENGTH DESIGN, PER AMERICAN CONCRETE INSTITUTE.
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ROOF ANCHOR CAST IN PLACE
SUMMIT MODEL# SM-5-XX-XX

FOR C.I.P. DURING ROOF DECK POUR

1. SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
2. HSS TUBE: HEIGHT, DIAMETER, AND THICKNESS AS REQUIRED FOR APPLICATION.
3. SM-FOM: OPTIONAL MOLDED URETHANE INSULATION INJECTED INSIDE H.S.S. TUBE REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
4. SM-STUD: 3/8" Ø NELSON STUDS, WELDED TO BASE PLATE, TOP AND BOTTOM.
5. SM-PLT: BASE PLATE SIZED AS REQUIRED FOR APPLICATION.



ANCHOR 3D VIEW

MATERIAL DESIGNATION:

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

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-5-12-29-34	29"	4" O.D. SCH. 40, x .237"	12" X 12" X .500"	8"	8/16"	4.50"	5.00"	12"

MARKETING DRAWING FOR ANCHORS CAST IN PLACE WITH STUDS

SM-5-xx-xx DRAWING NO. A-1 PAGE NO. 1/1



SM-6 Series - Single Pipe CIP Anchor



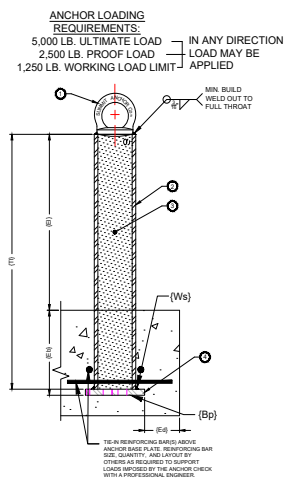
Summit Anchor Co.
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ROOF ANCHOR CAST IN PLACE
SUMMIT MODEL# SM-6

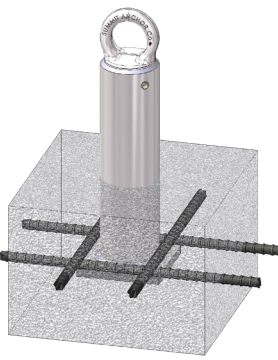
- SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED, ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- HSS TUBE:** HEIGHT, DIAMETER, AND THICKNESS AS REQUIRED FOR APPLICATION.
- SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION INJECTED INSIDE H.S.S. TUBE REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY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

ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
2,500 LB. PROOF LOAD
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:
a) 250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 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 IRC-11.4 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.
- ENSURING THAT THE APPLICATION IN WHICH THE ANCHORS ARE USED AND THE STRUCTURE TO WHICH THEY ARE 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 ON THE DRAWING INCLUDING MOMENTS, SHEAR, TORSION, AND AXIAL FORCES ETC. THE PROJECT ENGINEER OR FIELDCHIEF 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'S 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 CHC IS ONLY FOR EQUIPMENT DESIGNER'S USE. THESE PLANS AND ANY NO TAG REPRESENTS ENGINEERING ASSOCIATED WITH THE ANCHOR'S PROPER INSTALLATION. NO TAG OR PROPER BUILDING CODES, REGULATIONS, AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USES OF EQUIPMENT IS OUT OF THIS SCOPE.



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 CAST IN PLACE WITH SINGLE PLATE

DRAWING NO. **SM-6-xx-xx** PLT SCALE: 1:1 PAGE NO.



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ROOF ANCHOR CAST IN PLACE
SUMMIT MODEL# SM-6

SUMMIT STANDARD ANCHOR MODELS

MODEL #	TUBE LENGTH {Ti}	EXPOSED LENGTH {Ei}	EMBED DEPTH {Eb}	MIN. SLAB THICKNESS {Ms}	TUBE DIA/SCH. {Di, SCH.}	BASE PLATE SIZE {Bp}	EDGE DISTANCE {Ed}
SM-6-5-6-12"	6"	1 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"x1/2"	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"x1/2"	14"
SM-6-5-18-12"	18"	12 1/2"	4,000 PSI - 7.50" 4,500 PSI - 7.50" 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"x1/2"	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 - 6.00"	4,000 PSI - 8.50" 4,500 PSI - 8.50" 5,000 PSI - 8.00" 6,000 PSI - 7.50"	4 1/2" O.D. SCH.40, x .237"	6"x6"x1/2"	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"x1/2"	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"x1/2"	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"x1/2"	20"

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

SM-6-5-18-12

○ FOR CONCRETE

○ EMBED APPLICATION

○ PLATE SIZE SQUARE

○ TUBE LENGTH

○ PLATE THICKNESS

○ FOR CONCRETE

○ EMBED APPLICATION

○ PLATE SIZE SQUARE

○ TUBE LENGTH

○ PLATE THICKNESS

POR: #01381, #01466

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MARKETING DRAWING FOR ANCHORS CAST IN PLACE WITH SINGLE PLATE

DRAWING NO. **SM-6-xx-xx** PLT SCALE: 1:1 PAGE NO.

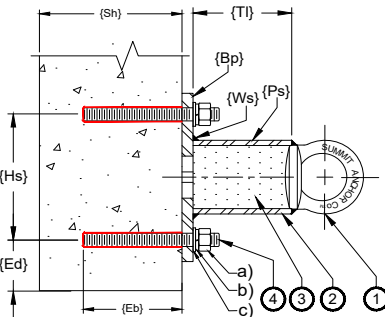
SM-81 Series - 2 Bolt Pattern Anchor



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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

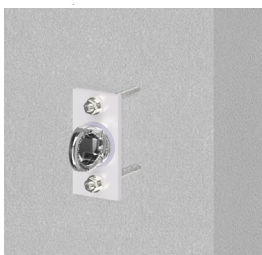


NOTE: CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ASSURANCE 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 (i.e. SEE NCA-1-1 WINDOW CLEANING SAFETY STANDARDS).
4. 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 STRUCTURAL DESIGN PER AMERICAN CONCRETE INSTITUTE.
5. 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.
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 (WHERE INCLUDES VERTICAL AND HORIZONTAL LOAD CARRYING MEMBERS AND ASSOCIATED CONNECTIONS); FIELD CONNECTION DETAILS (INCLUDING ANY FIELD WELDS); CONCRETE, COMPRESSIVE STRENGTH; REINFORCING STEEL (DETAILED/LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS).
7. THE ANCHOR TABLE WAS PREPARED USING HILTI'S PROSPER SOFTWARE. EACH ANCHOR MUST BE ANALYZED AND APPROVED ON A PROJECT-BY-PROJECT BASIS BY A PROFESSIONAL ENGINEER WHO IS REGISTERED AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

ANCHOR MOUNTED WITH 2 EPOXY FASTENERS

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.
4. SM-TRA-ADH: 5/8" O.D. or 3/4" O.D. 304 B8 CHISEL TIPPED STAINLESS STEEL THREADED RODS
a) F 594 HEX NUT
b) 19-8 STAINLESS STEEL LOCK WASHER
c) F 436 HARDENER GALVANIZED FLAT WASHER
SM-EPX-RE-500: HILTI-RE-500 V3 EPOXY ADHESIVE. INSTALLATION PER ESR-3814



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)



MARKETING DRAWING FOR MOUNTED ANCHORS ON WALL WITH EPOXY FASTENERS
DRAWING NO. **SM-81-xx-xx** PLT SCALE: 1:1 PAGE NO.

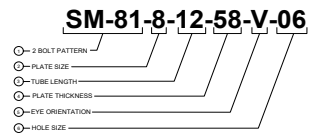


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ANCHOR MOUNTED WITH 2 EPOXY FASTENERS

MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (TI)	PIPE SIZE (P.S.)	(Wt) TUBE TO BASE WELD SIZE	(Bt) BASE PLATE SIZE	(St) STUD SPACING	MIN EMBED DEPTH (Eb)	MIN SLAB THICKNESS (Ms)	HAS ROD DESCRIPTION	MIN. EDGE DISTANCE (Ed)	MIN. BOLT 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 - 4.50	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.216"	1/2"	8" X 8" X 1/2"	6"	3,500 PSI - 5.625	3,000 PSI - 7/8"	1/2" X 7/8"	18"	
SM-81-8-4-12-06	5/8"	4-1/2"	3/4" O.D. SCH.40, x.216"	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.216"	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.216"	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.216"	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.216"	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"	5/8"	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"	5/8"	10" X 10" X 3/4"	7"	6,000 PSI - 7.00	6,000 PSI - 9"	1/2" X 9/8"	13"	



FOR: #01255, #01297, #01485, #01542



MARKETING DRAWING FOR MOUNTED ANCHORS ON WALL WITH EPOXY FASTENERS
DRAWING NO. **SM-81-xx-xx** PLT SCALE: 1:1 PAGE NO.



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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



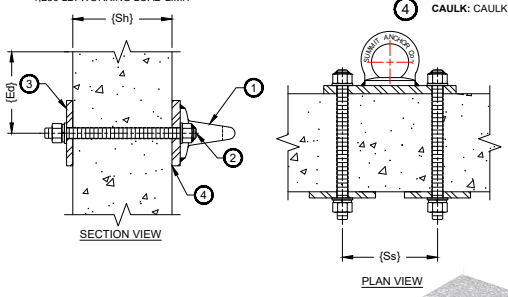
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WALL ANCHOR BOLTED THROUGH CONCRETE WALL

SUMMIT MODEL #: SM-81

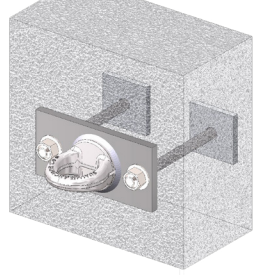
ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD — IN ANY DIRECTION
2,500 LB. PROOF LOAD — LOAD MAY BE
1,250 LB. WORKING LOAD LIMIT — APPLIED



SECTION VIEW

PLAN VIEW

- 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.



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:
a) 2,500 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 5,000 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 as per 100% VISUAL 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.
- 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 LOADS FROM DEBRIS, COLLISION, AND WIND 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 FIELD WELDS; CONCRETE COMPRESSIVE STRENGTH; REINFORCING STEEL; DETAIL LOGICAL AND 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 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.	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	 Summit Anchor Co. MARKETING DRAWING FOR THROUGH BOLTED WALL ANCHORS	DRAWING NO. SM-81-xx-xx A-1 PAGE NO. 1 of 2
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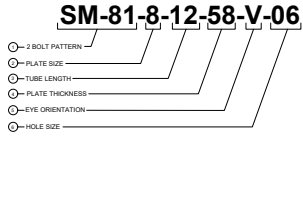


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WALL ANCHOR BOLTED THROUGH CONCRETE WALL

SUMMIT MODEL #: SM-81



ANCHOR 3D VIEW

SUMMIT STANDARD

MODEL	HOLE SIZE IN BASE PLATE	TUBE LENGTH (TL)	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"	3,000-8,000" 4,000-8,000" 5,000-8,000"	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"	3,000-8,000" 4,000-8,000" 5,000-8,000"	5/8"Ø x XX+4"	5"

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

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

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	 Summit Anchor Co. MARKETING DRAWING FOR THROUGH BOLTED WALL ANCHORS	DRAWING NO. SM-81-xx-xx A-2 PAGE NO. 2 of 2
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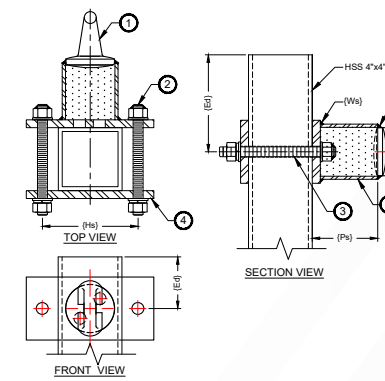
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"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

WALL ANCHOR WRAPPED AROUND STEEL TUBE

SUMMIT MODEL #: SM-81-XX-XX

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



TOP VIEW

SECTION VIEW

FRONT VIEW

- 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



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:
a) 2,500 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 5,000 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 as per 100% VISUAL 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.
- 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 LOADS FROM DEBRIS, COLLISION, AND WIND 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 FIELD WELDS; CONCRETE COMPRESSIVE STRENGTH; REINFORCING STEEL; DETAIL LOGICAL AND 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 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)

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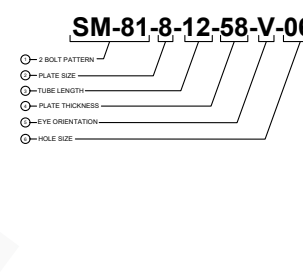


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WALL ANCHOR WRAPPED AROUND STEEL TUBE

SUMMIT MODEL #: SM-81-XX-XX



ANCHOR 3D VIEW

SUMMIT STANDARD ANCHOR WRAPPED AROUND STEEL TUBE

MODEL	HOLE SIZE IN BASE PLATE	MAX. TUBE LENGTH (TL)	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 2.16"	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 2.16"	1/2"	8" X 4" X 1/2"	6"	6"

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

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

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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:
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 INCA 1.4.1 WINDOW CLEANING SAFETY STANDARD).
- THE ADHESIVE OR EPOXY SHALL BE RATED FOR LIVE DYNAMIC LOADS BY THE FASTENER 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 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 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 INCLUDES VERTICAL AND HORIZONTAL LOADS; FIELD CONNECTIONS (INCLUDING ANY FIELD WELDS); CONCRETE COMPRESSIVE STRENGTH; REINFORCING STEEL; DETAIL 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 OHC IS ONLY FOR EQUIPMENT DESIGN EXISTING ON THESE AND NO OTHER EQUIPMENT IS ANALYZED OR PROPOSED BUILDING CONFIGURATION AND EQUIPMENT HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR EXISTED 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 A600 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

Summit Anchor Co.
MARKETING DRAWING FOR MOUNTED WITH CIP CAGE
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"x 3/8"	3/8" Ø - 7"	3/8"	4,000 - 8.00" 5,000 - 7.00"	12"	14"
SM-1-12-18-58	18"	3 1/2" O.D. SCH.40, x .300"	12"x12"x 3/8"	3/8" Ø - 9"	5/8"	4,000 - 8.00" 5,000 - 7.00"	12"	14"

Summit Anchor Co.
MARKETING DRAWING FOR MOUNTED WITH CIP CAGE
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:
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 INCA 1.4.1 WINDOW CLEANING SAFETY STANDARD).
- THE ADHESIVE OR EPOXY SHALL BE RATED FOR LIVE DYNAMIC LOADS BY THE FASTENER 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 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 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 INCLUDES VERTICAL AND HORIZONTAL LOADS; FIELD CONNECTIONS (INCLUDING ANY FIELD WELDS); CONCRETE COMPRESSIVE STRENGTH; REINFORCING STEEL; DETAIL LOCALIZED STEEL STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- THE ANCHOR TABLE WAS PREPARED USING HL7'S PROPS SOFTWARE. EACH ANCHOR MUST BE ANALYZED AND APPROVED ON A PROJECT-BY-PROJECT BASIS BY A PROFESSIONAL ENGINEER WHO IS REGISTERED AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

MATERIAL DESIGNATION:

- ALL BASE PLATES: ASTM A572 GR 50
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A600 GR C
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)

Summit Anchor Co.
MARKETING DRAWING FOR CAST IN PLACE ANCHOR WITH STUDS
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	3/4"	8" X 4" X 1/2"	6"	4,000 - 4.00" 5,000 - 3.50" 6,000 - 5.50"	4,000 - 6.00" 5,000 - 6.00" 6,000 - 6.00"	12"	12"
SM-85-8-4-12-06	5/8"	4"	3 1/2" O.D. SCH.40, x .216"	3/4"	8" X 4" X 1/2"	6"	4,000 - 6.75" 5,000 - 6.25" 6,000 - 5.75"	4,000 - 8.00" 5,000 - 8.00" 6,000 - 7.00"	24"	24"
SM-85-10-12-34-06	5/8"	12"	3 1/2" O.D. SCH.40, x .216"	3/4"	10" X 4" X 3/4"	7"	6,000 PSI - 5.50"	6,000 PSI - 7"	15"	15"

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

FOR CONCRETE
MINIMUM APPLICATION
PLATE SIZE SQUARE
TUBE LENGTH 1"
PLATE THICKNESS
EYE ORIENTATION TO
HOLE CENTER
STUD SIZE

Summit Anchor Co.
MARKETING DRAWING FOR CAST IN PLACE ANCHOR WITH STUDS
SM-85-xx-xx A-2 PAGE NO. 1/1



Various Attachment Details provided by Summit Anchor Co.



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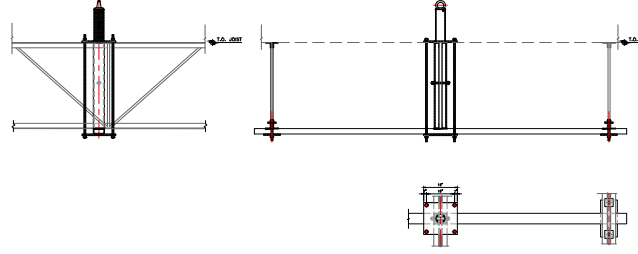
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ANCHOR WRAPPED AROUND STEEL JOIST SM-1 - CUSTOM

- 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
 - F 594 HEX NUT
 - 18-8 STAINLESS STEEL LOCK WASHER
 - 436 HARDENER GALVANIZED FLAT WASHER

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

BACK PLATE PER APPLICATION



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) 5,000 LB. ULTIMATE LOAD
b) 5,000 LB. PROOF LOAD
c) 1,250 LB. WORKING LOAD LIMIT (WITHOUT PERMANENT DEFORMATION)
d) 1,250 LB. PROOF LOAD (WITH PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SUMMIT ANCHOR DOES NOT GUARANTEE THE PROPER INSTALLATION OF ANCHORS. THE USER MUST BE RESPONSIBLE FOR THE PROPER INSTALLATION OF ANCHORS. THE USER MUST BE RESPONSIBLE FOR THE PROPER INSTALLATION OF ANCHORS. THE USER MUST BE RESPONSIBLE FOR THE PROPER INSTALLATION OF ANCHORS.
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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 JOIST

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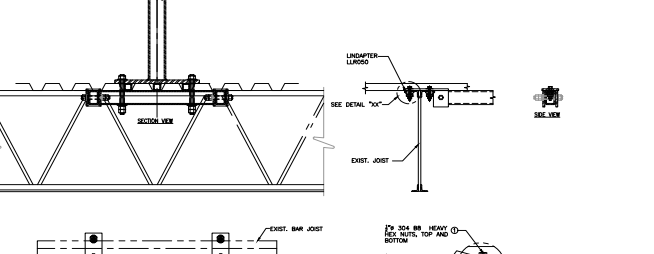
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ANCHOR WRAPPED AROUND STEEL JOIST SM-1 - CUSTOM

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

BACK PLATE PER APPLICATION



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) 5,000 LB. ULTIMATE LOAD
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MATERIAL DESIGNATION:

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- WELD WIRE: E70 WITH A MINIMUM TENSILE STRENGTH OF 70 KSI

MARKETING DRAWING FOR ANCHORS WRAPPED AROUND STEEL JOIST

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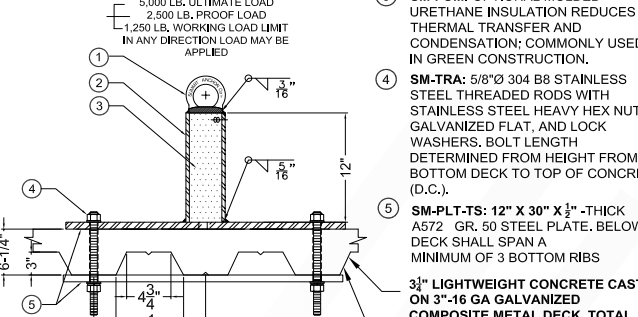


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Tel: 301.874.4941, Fax: 301.620.9819
Toll Free: 800.372.1098 Web: www.summitanchor.com

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 B8 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.)
- SM-PLT-TS:** 12" X 30" X 1/2" - THICK A572 GR. 50 STEEL PLATE. BELOW DECK SHALL SPAN A MINIMUM OF 3 BOTTOM RIBS

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



3 1/2" LIGHTWEIGHT CONCRETE CAST ON 3"-16 GA 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

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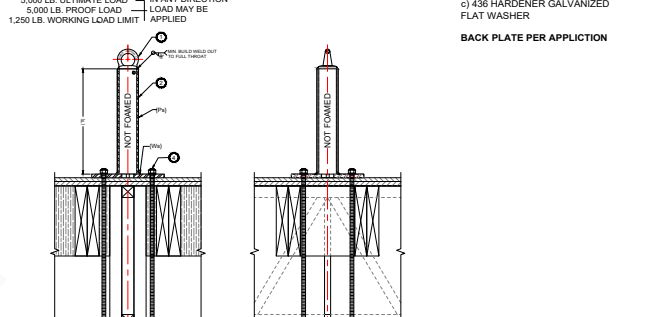
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ROOF ANCHOR MOUNTED ON WOODEN STRUCTURE SM-1 - CUSTOM

- 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
 - F 594 HEX NUT
 - 18-8 STAINLESS STEEL LOCK WASHER
 - 436 HARDENER GALVANIZED FLAT WASHER

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

BACK PLATE PER APPLICATION



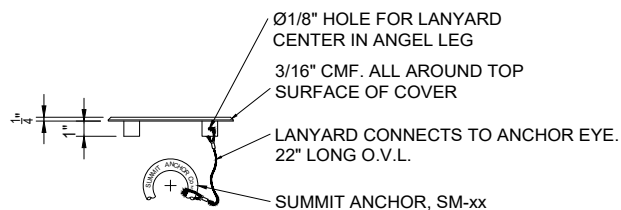
MATERIAL DESIGNATION:

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

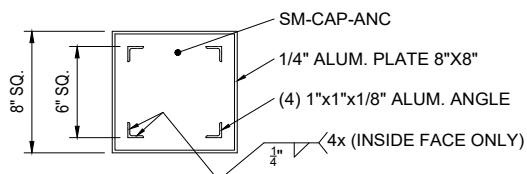
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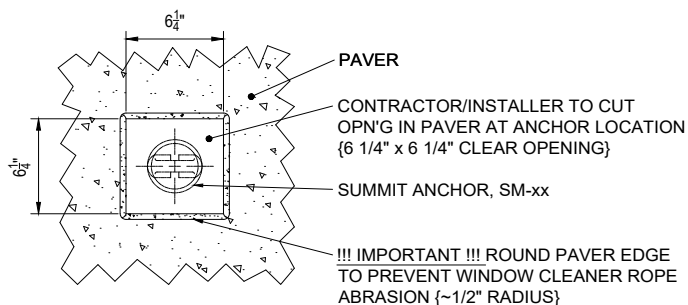
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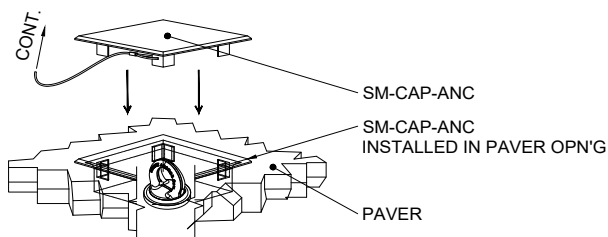
SIDE VIEW



PLAN VIEW



PLAN VIEW PAVR OPN'G
SM-CAP-ANC OMITTED



SM-CAP-ANC INSTALLATION



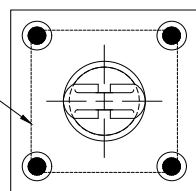
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RECESSED BALCONY ANCHOR

- ① **SM-1, SM-4, OR SM-6:** AND FASTENERS SUITABLE FOR APPLICATION. ENTIRE ANCHOR HOT-DIPPED 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-CAP-ANC:** 8" X 8" X 1/4" BRUSHED FINISH ALUMINUM COVER PLATE.

OTHER FINISH IS AVAILABLE AT DIRECTION OF THE ARCHITECT.

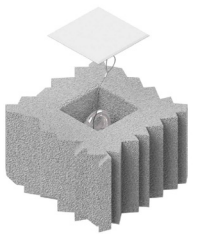
OUTLINE OF 6-1/4" X 6-1/4" HOLE CUT IN PAVR



PLAN VIEW

ROUND OFF PAVR EDGE TO PREVENT ABRASION

SECTION VIEW



DRAWING NO. SM-ANCH-CAP		PAGE NO. 1 of 1	
MODEL/PART NUMBER		DRAWING NO. A-1	
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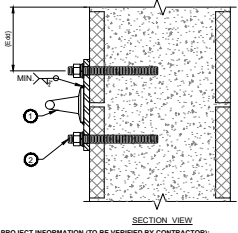
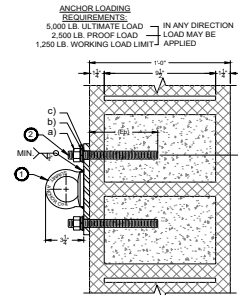
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WALL ANCHOR MOUNTED WITH CHEMICAL FASTENERS SUMMIT MODEL #: SM-81-XX-XX



- SM-81: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.**
- SM-TRA-AD: 1/2" Ø 304 B8 CHSEL TIPPED STAINLESS STEEL THREADED RODS**
 - F 594 HEX NUT
 - 18-8 STAINLESS STEEL LOCK WASHER
 - F 436 HARDENER GALVANIZED FLAT WASHER
- SM-EPX-HY-270: HILTI-HY-270 EPOXY ADHESIVE. INSTALLATION PER ESR-4143**



PROJECT INFORMATION (TO BE VERIFIED BY CONTRACTOR):

- CMU WALL 12" THICKNESS FILLED WITH GROUT
- MASONRY MIN. COMPRESSIVE STRENGTH 1800 PSI
- GROUT SHALL BE PROPORTIONED TO ASTM C476 MIN. COMPRESSIVE STRENGTH OF THE MORTAR SHALL BE 3000 PSI
- ALL CONCRETE MASONRY UNITS SHALL BE HOLLOW, NORMAL WEIGHT, 2-CELL BLOCKS THAT CONFORM TO ASTM C90 UNL.
- 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 3,000 PSI.



MODEL	MAX. TUBE LENGTH (T)	PIPE SIZE (P)	TUBE TO BASE WELD SIZE (W)	HOLE SIZE IN BASE PLATE FOR FASTENERS	BASE PLATE SIZE (B)	HOLE SPACING (S)	MIN. EDGE DISTANCE (E)	MIN. EDGE DISTANCE (E)	MIN. EMBEDMENT DEPTH (ED)
SM-81-8-0-12-06	N/A	N/A	N/A	1"	8" X 8" X 1/2"	6"	24"	24"	4.5"

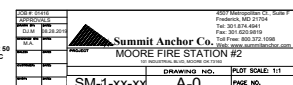
** ADEQUACY OF EXISTING STRUCTURE TO SUPPORT TIEBACK LOADING IS BY OTHERS.

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ASSURANCE 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) 1200 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 2400 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
c) 3600 LB. ULTIMATE LOAD
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 BEFORE BEING INSTALLED MUST BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE. SEE AISC 341-14 VISION CLEARING SAFETY STANDARDS.
4. 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.
5. 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: MANUFACTURING ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD, CARTRIDGE MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSION 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 STATIONARY USE 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

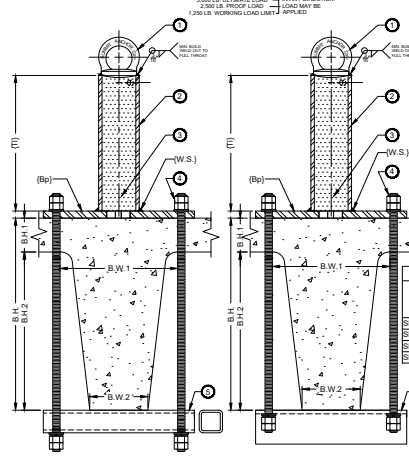


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ROOF ANCHOR WRAPPED AROUND CONCRETE JOIST SUMMIT MODEL #: SM-1-X-X-X ROOF ANCHOR

- 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**



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

MATERIAL DESIGNATION:

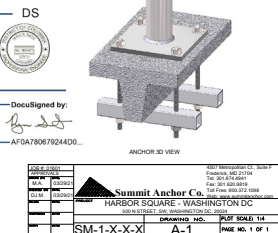
- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70

PROJECT INFORMATION:

- CONCRETE JOIST: B.H. 1" 3", B.H. 2" 1", 0"
- 2 BE 1" 3", 2 BE 2" 1", 0"
- NORMAL WEIGHT CONCRETE
- COMPRESSIVE STRENGTH f_c = 3500 PSI

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ASSURANCE 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) 1200 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 2400 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
c) 3600 LB. ULTIMATE LOAD
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 BEFORE BEING INSTALLED MUST BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INSTALLED INTO SERVICE. SEE AISC 341-14 VISION CLEARING SAFETY STANDARDS.
4. THE ANCHORS OR BODY SHALL BE RATED FOR LIVE, DYNAMIC LOADS BY THE FACTOR. MANUFACTURER, A PROFESSIONAL ENGINEER SHALL SPECIFY THE FASTENERS FOR THE ATTACHMENT OF THE ANCHOR TO THE STRUCTURE IN ACCORDANCE WITH STRUCTURAL DESIGN FOR AMERICAN CONCRETE INSTITUTE.
5. 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.
6. 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: MANUFACTURING ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD, CARTRIDGE MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSION 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 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 STATIONARY USE ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.



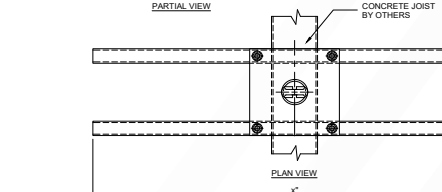
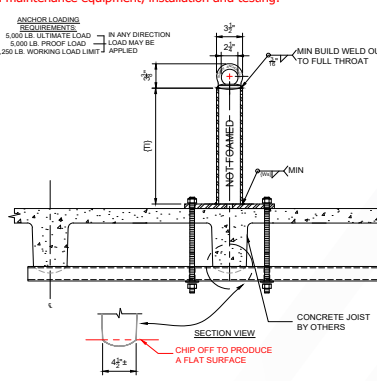
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ROOF ANCHOR - WRAPPED AROUND CONCRETE JOISTS SUMMIT MODEL #: SM-1-X-X-X

- 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**

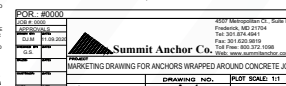


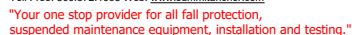
NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ASSURANCE 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) 1200 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
b) 2400 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
c) 3600 LB. ULTIMATE LOAD
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 INSTALLED INTO SERVICE. SEE AISC 341-14 VISION CLEARING SAFETY STANDARDS.
4. 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.
5. 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: MANUFACTURING ELEMENTS WHICH INCLUDES VERTICAL AND HORIZONTAL LOAD, CARTRIDGE MEMBERS AND ASSOCIATED CONNECTIONS, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, CONCRETE COMPRESSION 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 STATIONARY USE ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

MATERIAL DESIGNATION:

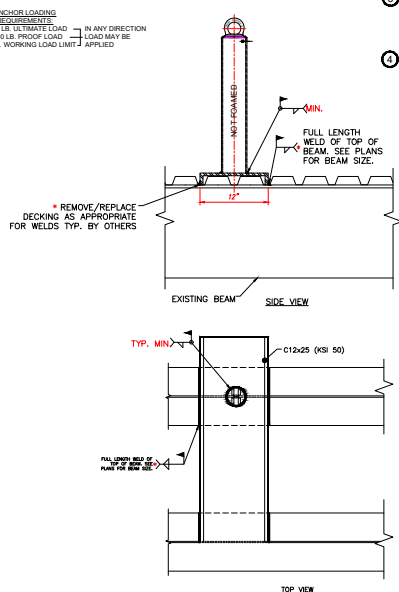
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)





SUMMIT 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 FOR

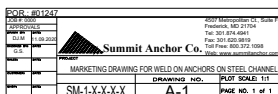


NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ASSURE 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) 2,500 LB. HORIZONTAL LOAD (MAX. ALLOWABLE SLIP LOAD)
 - b) 2,500 LB. UPLIFT LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - c) 5,000 LB. UPLIFT LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)
- THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO INADEQUATE INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH COULD RESULT FROM ANCHOR FAILURE. INSTALLATION MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUPPLEMENTED ANCHOR EQUIPMENT. ADDITIONALLY, ANCHORS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT PROFESSIONAL ENGINEER BEFORE BEING INSTALLED PLACED INTO SERVICE (e.g. SEE IBC 1804.11.10.10 CLEANING SAFETY STANDARD).
- THE CONTRACTOR SHALL INFORM THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LOAD CAPACITY WITH APPLICABLE LOCAL AND STATE DESIGN REQUIREMENTS.

MATERIAL DESIGNATION:

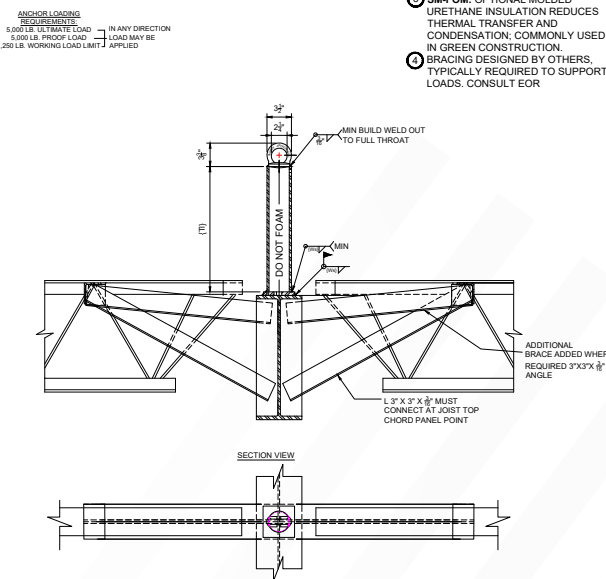
- ALL FORGED PAD EYES: AISI 1035
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)



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

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 FOR

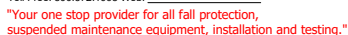
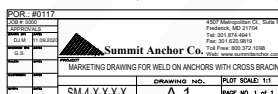


NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING

1. ASSURANCE 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) 1,350 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)

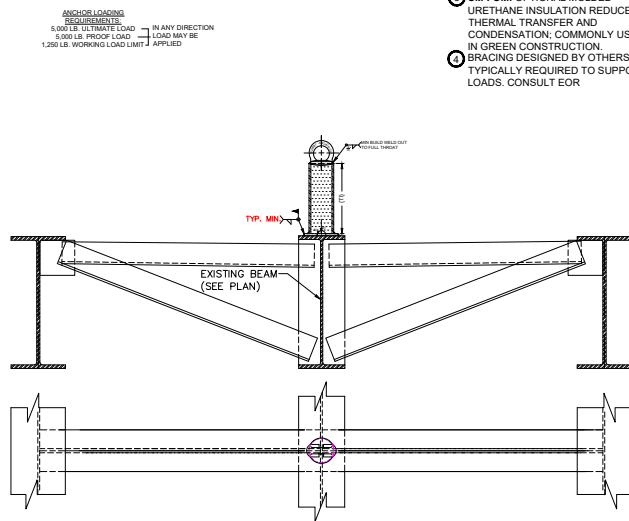
MATERIAL DESIGNATION:

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



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) HSX 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 TYPICALLY REQUIRED TO SUPPORT LOADS. CONSULT FOR

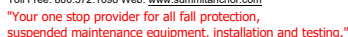
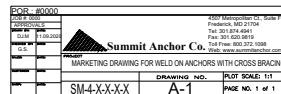


NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ASSURANCE THAT SUMMIT/ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
2. WHEN INSTALLED PERFORMER / SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
1.1 250.0 LB. HOISTING LOAD (LIMIT ALLOWABLE LOAD)
2.1 250.0 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
3.1 500.0 LB. ULTIMATE LOAD (MAX. LOAD WITHOUT CEILING DEFORMATION)
3. THE UNDERSTANDING THAT ANCHORS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE 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 INSTALLED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (SEE THE CLEARING SAFETY STANDARD).

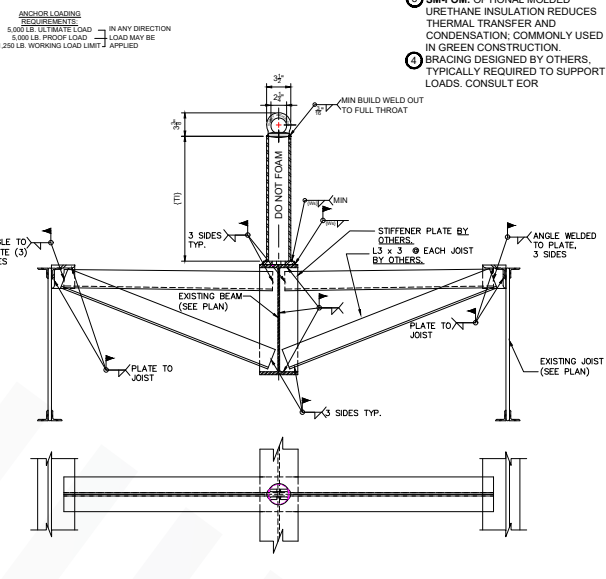
MATERIAL DESIGNATION:

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



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 FOR

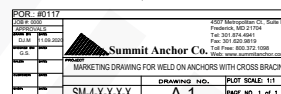


NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ASSURANCE 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 LBS. WORKING LOAD (ALLOWABLE LOAD)
 - b) 2,500 LBS. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - c) 5,000 LBS. ULTIMATE LOAD (MAX. LOAD WITHOUT PERMANENT DEFORMATION)

MATERIAL DESIGNATION:

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

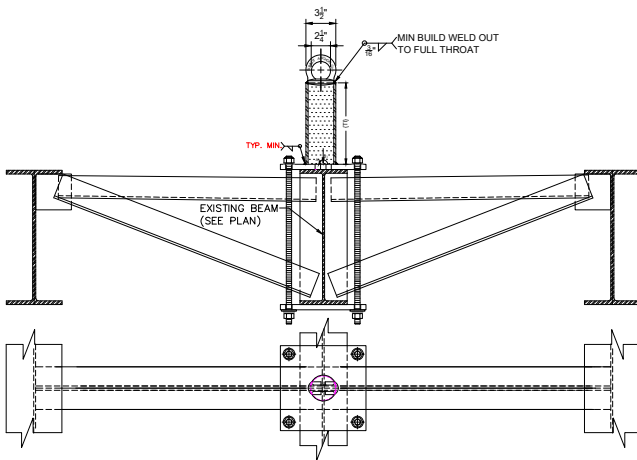


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Tel: 301.874.4941, Fax: 301.620.9819
Toll Free: 800.372.1098 Web: www.summitanchor.com

ANCHOR LOADING REQUIREMENTS:

100,000 LB. ULTIMATE LOAD	}	IN ANY DIRECTION LOAD MAY BE APPLIED
50,000 LB. PROOF LOAD		
10,000 LB. WORKING LOAD LIMIT		



NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ASSURANCE THAT SUBMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
2. WHEN INSTALLED PROPERLY, SUBMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 (a) 2,500 LB. PROOF LOAD LIMIT (ALL ALLOWABLE)
 (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 OR MAY RESULT IN LOSS OR FAILURE. INSTALLATION OF ANCHORS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN RESPONSE TO EQUIPMENT. ADDITIONALLY ANCHORS SHALL BE UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (e.g. SEE IBC CLEANING SAFETY STANDARDS).
4. PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE ANCHOR LOAD COMPLIES WITH THE DESIGN AND SAFETY STANDARDS FOR THE INTENDED APPLICATION.

MATERIAL DESIGNATION:

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

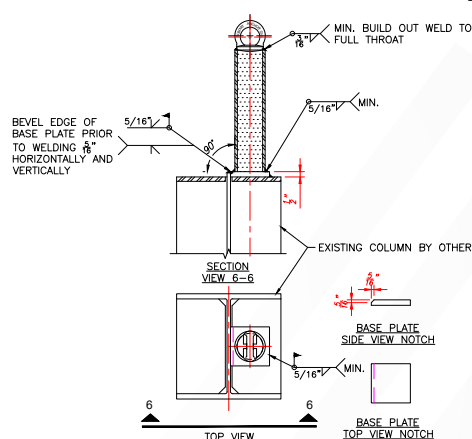
 Summit Anchor Co. Fax: 301.620.9819 Toll Free: 800.372.1098 www.summitanchor.com	
PROJ. NO. MARKETING DRAWING FOR ANCHORS WRAPPED AROUND BEAM WITH CROSS BRACIN	
DRAWING NO. SM-1-X-X-X-X	PLOT SCALE: 1:1 PAGE NO. 1 of 1

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

ANCHOR LOADING REQUIREMENTS:

100,000 LB. ULTIMATE LOAD	} IN ANY DIRECTION LOAD MAY BE APPLIED
60,000 LB. PROOF LOAD	
30,000 LB. WORKING LOAD LIMIT	



NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:
1. ASSURANCE 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)

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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MARKETING DRAWING FOR ANCHORS WELDED TO TOP OF COLUMN		
SM-4-X-X-X-X	DRAWING NO. A-1	PLOT SCALE: 1:1 PAGE NO. 1 of 1

CONTACT US FOR MORE INFORMATION:

www.summitanchor.com



(800) 372-1098



info@summitanchor.com

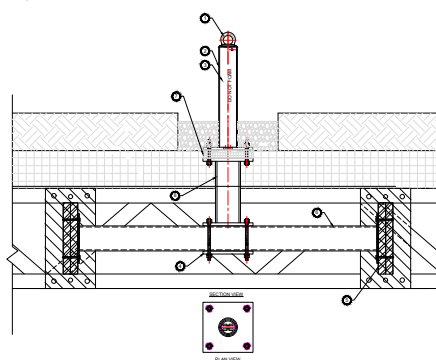
Page 32

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Tel: 201-274-1044 Fax:

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

ANCHOR LOADING REQUIREMENTS:

100 LB. ULTIMATE LOAD	}	IN ANY DIRECTION LOAD MAY BE APPLIED
500 LB. PROOF LOAD		
LB. WORKING LOAD LIMIT		



- 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-PLT:** BOTTOM PLATE TO FIT BEAM.
- ⑤ WOOD TRUSSES PER STRUCTURAL DRAWINGS
- ⑥ STEEL STRUCTURE PER STRUCTURAL DRAWINGS
- ⑦ THERMAL BREAK
- ⑧ STEEL PEDESTAL

NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- [illegible]

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)

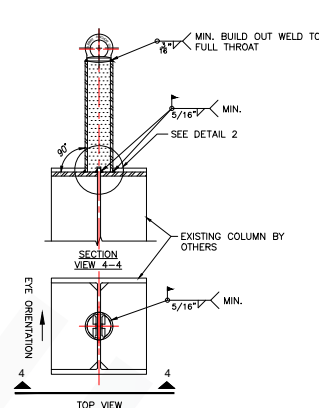
 Summit Anchor Co. 1800 Highway 27 North Fort Collins, CO 80504 Tel: 970.474.4841 Fax: 970.474.4841 Toll Free: 800.372.1088 Web: www.summitanchor.com	
MARKETING DRAWING FOR ANCHOR WRAPPED AROUND STEEL BEAM (WOOD STRUCTURE)	
SML-YY.XX.XX	DRAWING NO. Δ 1
PAGE NO. 1 OF 1	PLOT SCALE: 1=4

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Toll Free: 800.372.1098 Web: www.summitanchor.com

ANCHOR LOADING REQUIREMENTS:

5,000 LB. ULTIMATE LOAD	} IN ANY DIRECTION LOAD MAY BE APPLIED
5,000 LB. PROOF LOAD	
1,250 L.B. WORKING LOAD LIMIT	



NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:**
1. ASSURANCE 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)

MATERIAL DESIGNATION:

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

01436	4507 Maplelawn Ct., Suite F Frederick, MD 21704 Tel: 301.874.4941 Fax: 301.620.9819 Toll Free: 800.372.1098 Web: www.summitanchor.com
	Summit Anchor Co.
MARKETING DRAWING FOR ANCHORS WELDED ON TOP OF COLUMN	
SM-4-X-X-X-X	DRAWING NO. A-1 PLOT SCALE: 1/1 PAGE NO. 1 of 1



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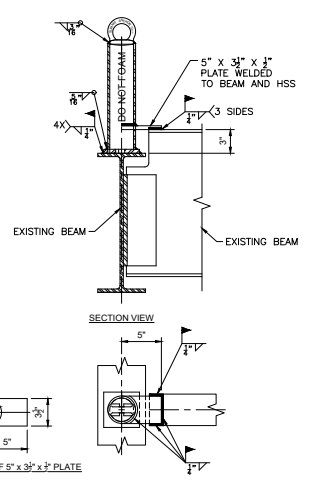
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ROOF ANCHOR - WELD TO BEAM W/ HALF MOON PLATE

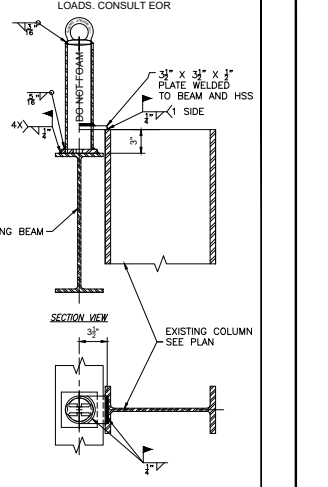
SUMMIT MODEL #: SM-4-CUSTOM

- 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.

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



SECTION VIEW
PLAN VIEW



SECTION VIEW
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:
• 5,000 LB. WORKING LOAD LIMIT (ALL DIMENSIONS)
• 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
• 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 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 INITIALLY PLACED INTO SERVICE IN A GREEN (I-I-I) WINDOW CLIMBING SAFETY SYSTEM.
- 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 IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAIL MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING MOMENT, SHEAR, TENSION, AND AXIAL FORCES. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE TO WHICH THE ANCHORS ARE ATTACHED. THESE LOADS SHALL BE INCLUDED, BUT ARE NOT LIMITED TO, MIN. 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 THE APPLICABLE STEEL, STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- UNDERSTANDING THAT ANCHORS ARE PROVIDED UNDER THIS STAMP AND SEAL BY INC. 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 PROPOSED USE HAVE NOT BEEN REVIEWED. EQUIPMENT IS MARKED FOR IDENTIFICATION ONLY. PROPOSED LOADS 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)

PCOR #0046	DATE	REV	DESCRIPTION
0046	01/01/2010	1	INITIAL RELEASE

Summit Anchor Co.
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Toll Free: 800.372.1098 Web: www.summitanchor.com

MARKETING DRAWING FOR ANCHORS WELDED TO BEAM WITH HALF MOON PLATE
DRAWING NO. **A-1** PLAT SCALE: 1:1
PAGE NO. 1 OF 1



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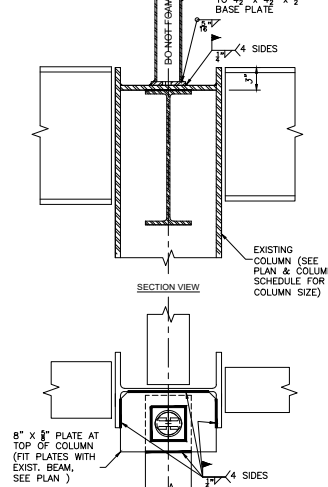
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ROOF ANCHOR - WELD TO STEEL COLUMN

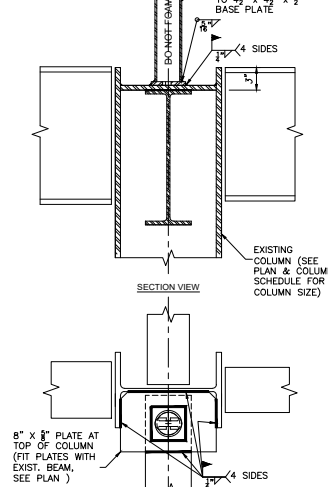
SUMMIT MODEL #: SM-4-CUSTOM

- 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.

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



SECTION VIEW
PLAN VIEW



SECTION VIEW
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:
• 5,000 LB. WORKING LOAD LIMIT (ALL DIMENSIONS)
• 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
• 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 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 INITIALLY PLACED INTO SERVICE IN A GREEN (I-I-I) WINDOW CLIMBING SAFETY SYSTEM.
- 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 IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAIL MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING MOMENT, SHEAR, TENSION, AND AXIAL FORCES. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE TO WHICH THE ANCHORS ARE ATTACHED. THESE LOADS SHALL BE INCLUDED, BUT ARE NOT LIMITED TO, MIN. 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 THE APPLICABLE STEEL, STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- UNDERSTANDING THAT ANCHORS ARE PROVIDED UNDER THIS STAMP AND SEAL BY INC. 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 PROPOSED USE HAVE NOT BEEN REVIEWED. EQUIPMENT IS MARKED FOR IDENTIFICATION ONLY. PROPOSED LOADS 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)

PCOR #0046	DATE	REV	DESCRIPTION
0046	01/01/2010	1	INITIAL RELEASE

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Toll Free: 800.372.1098 Web: www.summitanchor.com

MARKETING DRAWING FOR ANCHORS WELDED TO STEEL COLUMN
DRAWING NO. **A-1** PLAT SCALE: 1:1
PAGE NO. 1 OF 1



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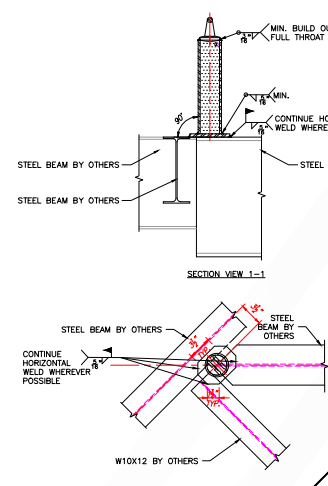
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ROOF ANCHOR - WELD AT 3-WAY BEAM INTERSECTION

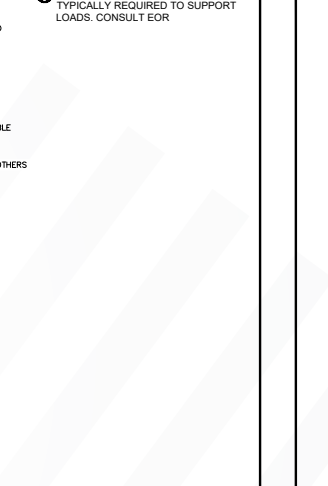
SUMMIT MODEL #: SM-4-X-X-X

- 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.

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



SECTION VIEW 1-1
PLAN VIEW



SECTION VIEW 1-1
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:
• 5,000 LB. WORKING LOAD LIMIT (ALL DIMENSIONS)
• 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
• 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 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 INITIALLY PLACED INTO SERVICE IN A GREEN (I-I-I) WINDOW CLIMBING SAFETY SYSTEM.
- 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 IT IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAIL MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING MOMENT, SHEAR, TENSION, AND AXIAL FORCES. THE PROJECT ENGINEER OF RECORD FOR THE BUILDING IS RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE TO WHICH THE ANCHORS ARE ATTACHED. THESE LOADS SHALL BE INCLUDED, BUT ARE NOT LIMITED TO, MIN. 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 THE APPLICABLE STEEL, STIFFENERS, STEEL BRACING, ADHESIVE OR MECHANICAL ANCHOR FASTENERS, OR ANY OTHER ELEMENT REQUIRED TO SUPPORT THE ABOVE LOADS.
- UNDERSTANDING THAT ANCHORS ARE PROVIDED UNDER THIS STAMP AND SEAL BY INC. 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 PROPOSED USE HAVE NOT BEEN REVIEWED. EQUIPMENT IS MARKED FOR IDENTIFICATION ONLY. PROPOSED LOADS 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)

PCOR #01436	DATE	REV	DESCRIPTION
01436	01/01/2010	1	INITIAL RELEASE

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 WELDED TO 3-WAY BEAM INTERSECTION
DRAWING NO. **A-1** PLAT SCALE: 1:1
PAGE NO. 1 OF 1



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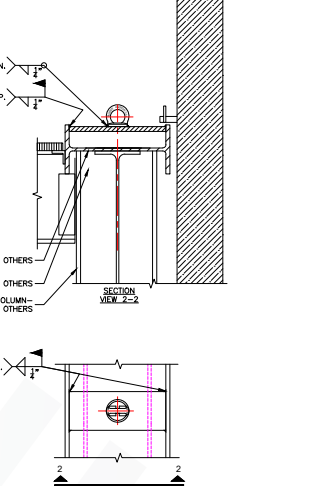
"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

ROOF ANCHOR - WELD TO BEAM

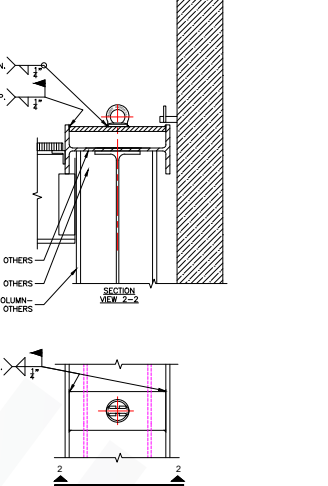
SUMMIT MODEL #: SM-4-X-X-X

- 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.

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



SECTION VIEW 1-1
TOP VIEW



SECTION VIEW 1-1
TOP VIEW

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• 5,000 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
• 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 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 INITIALLY PLACED INTO SERVICE IN A GREEN (I-I-I) WINDOW CLIMBING SAFETY SYSTEM.
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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)

PCOR #01436	DATE	REV	DESCRIPTION
01436	01/01/2010	1	INITIAL RELEASE

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MARKETING DRAWING FOR ANCHORS WELDED TO BEAM
DRAWING NO. **A-1** PLAT SCALE: 1:1
PAGE NO. 1 OF 1

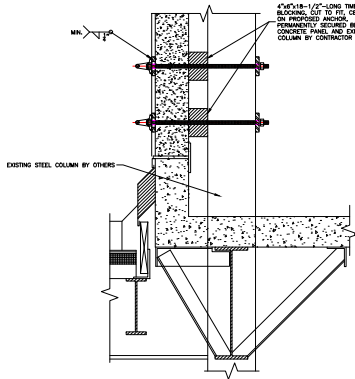


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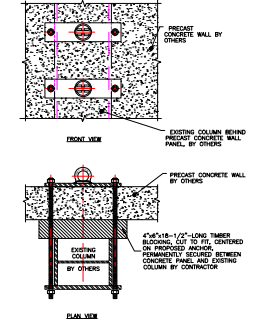
ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
5,000 LB. PROOF LOAD LOAD MAY BE
1,250 LB. WORKING LOAD LIMIT - APPLIED



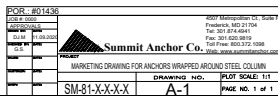
WALL ANCHOR - WRAPPED AROUND STEEL COLUMN

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

- SM-81: 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:
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• ALL TUBES: ASTM A500 GR C
• WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

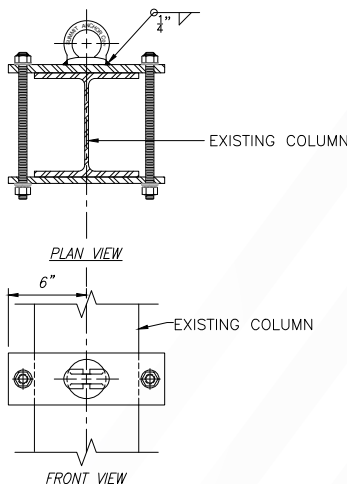


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5,000 LB. PROOF LOAD LOAD MAY BE
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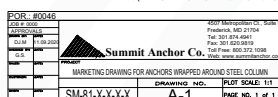


WALL ANCHOR - WRAPPED AROUND STEEL COLUMN

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

- SM-81: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
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MATERIAL DESIGNATION:
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• ALL TUBES: ASTM A500 GR C
• WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

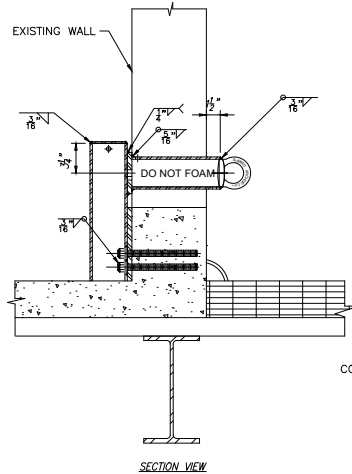


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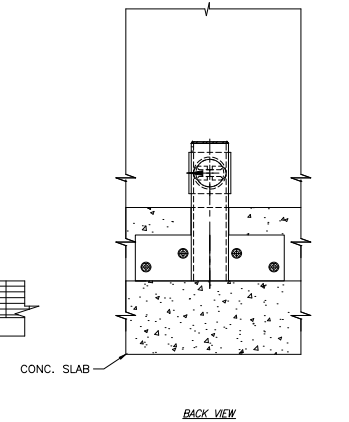
ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
5,000 LB. PROOF LOAD LOAD MAY BE
1,250 LB. WORKING LOAD LIMIT - APPLIED



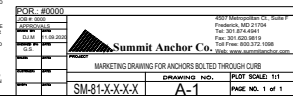
WALL ANCHOR - BOLT THROUGH CURB

SUMMIT MODEL #: SM-81-CUSTOM

- SM-81: 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: AISI 1035
• ALL TUBES: ASTM A500 GR C
• WELD WIRE: E70 (MINIMUM TENSILE STRENGTH OF 70 KSI)

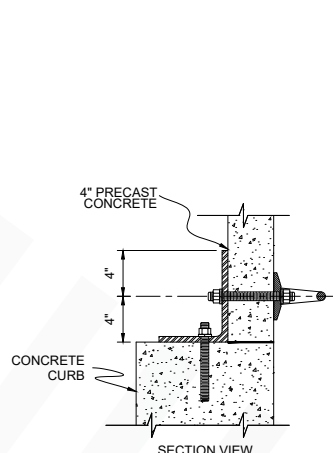


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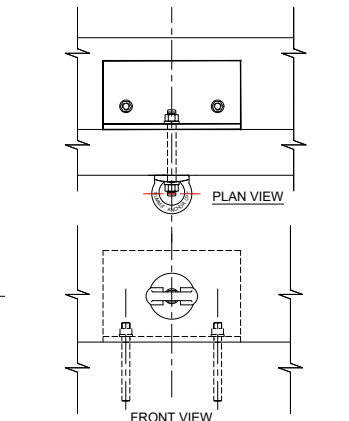
ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD IN ANY DIRECTION
5,000 LB. PROOF LOAD LOAD MAY BE
1,250 LB. WORKING LOAD LIMIT - APPLIED



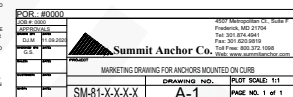
WALL ANCHOR - MOUNTED TO CURB

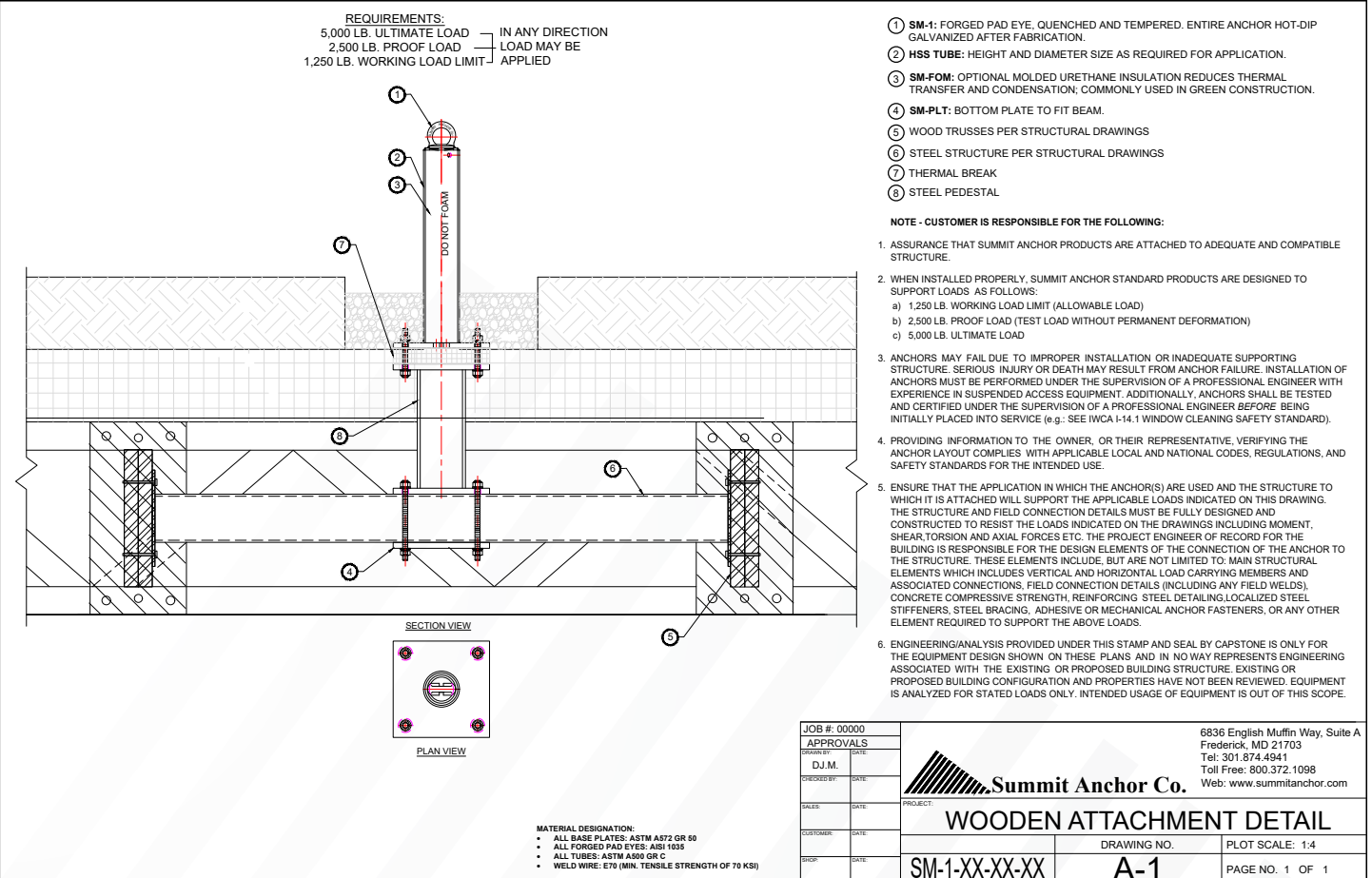
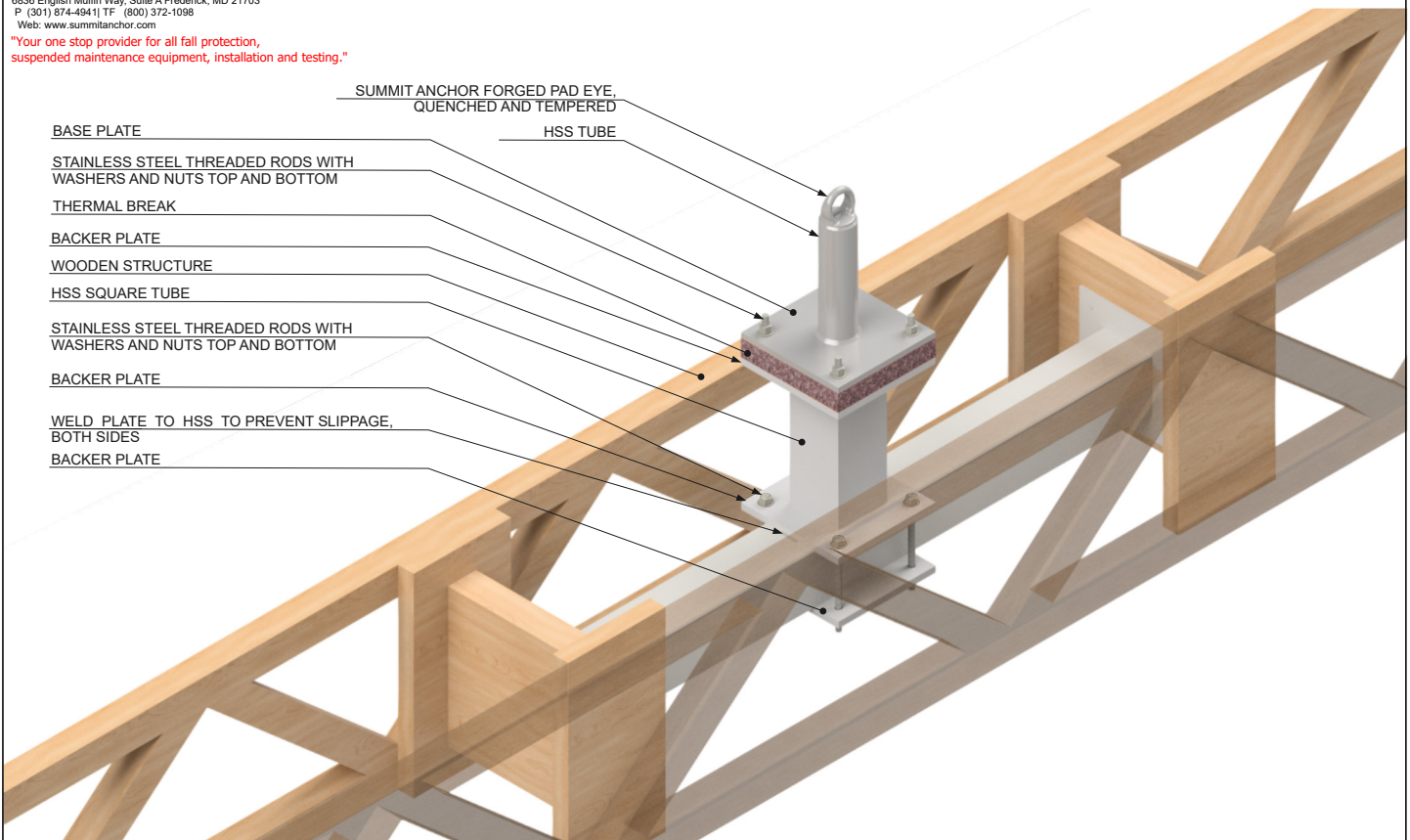
SUMMIT MODEL #: SM-81-CUSTOM

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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)





ROOF ANCHOR BOLTED ON WOODEN STRUCTURE

CONSTRUCTION FASTENERS FROM
LSL PLINTH INTO LSL BLOCKING

5/8" CARRIAGE BOLTS+NUTS
+WASHERS, W/LOCTITE RED

SUMMIT ANCHOR FORGED PAD EYE,
QUENCHED AND TEMPERED
HSS TUBE
BASE PLATE

LAMINATED STRAND
LUMBER 1.5" THICK
DECKING

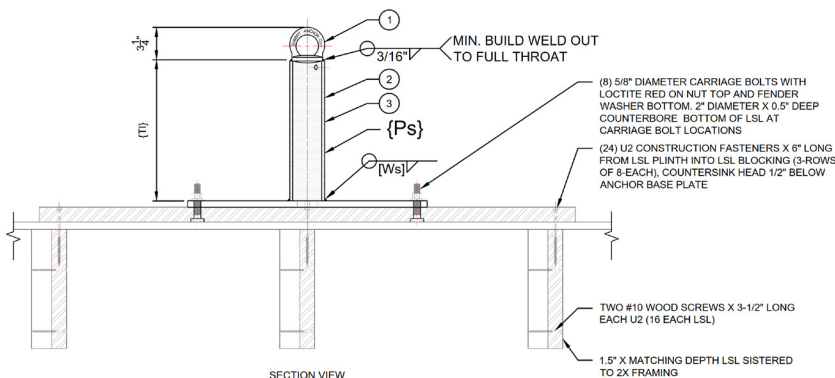
#10 WOOD SCREWS (2 FOR EACH
FASTENER ON TOP)

LSL SISTERED TO 2X FRAMING
MATCHING DEPTH
FRAMING

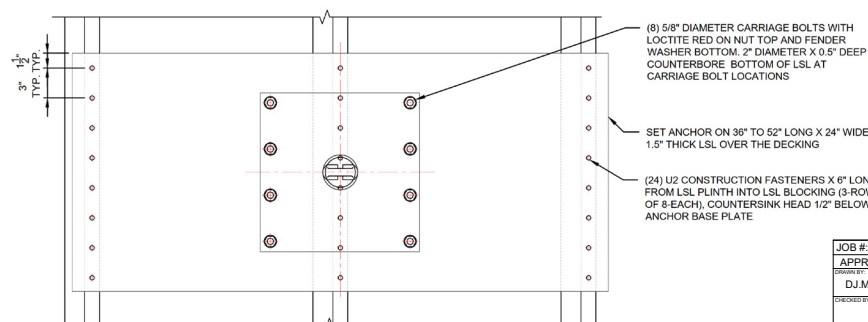
EXPLODED SCHEME

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



SECTION VIEW



PLAN VIEW

- ① **SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- ② **HSS TUBE:** HEIGHT AND DIAMETER PER THE TABLE BELOW
- ③ **SM-FOM:** OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.

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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
3. 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 1-14.1 WINDOW CLEANING SAFETY STANDARD).
4. 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.
5. ENSURE THAT THE APPLICATION IN WHICH THE ANCHOR(S) IS 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 DESIGNED AND CONSTRUCTED 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 INCLUDES 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 CAPSTONE IS ONLY FOR THE EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING STRUCTURE. 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
- WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)
- THREADED RODS: HILTI HAS-R A304 OR A193 B8 CLASS 2 STAINLESS STEEL

JOB #: 00000

APPROVALS

DJ.M. DATE

CREATED BY: DATE

DATE: DATE

CUSTOMER: DATE

DATE: DATE



Summit Anchor Co.

WOODEN ATTACHMENT DETAIL

SM-1-XX-XX-XX

DRAWING NO.

A-1

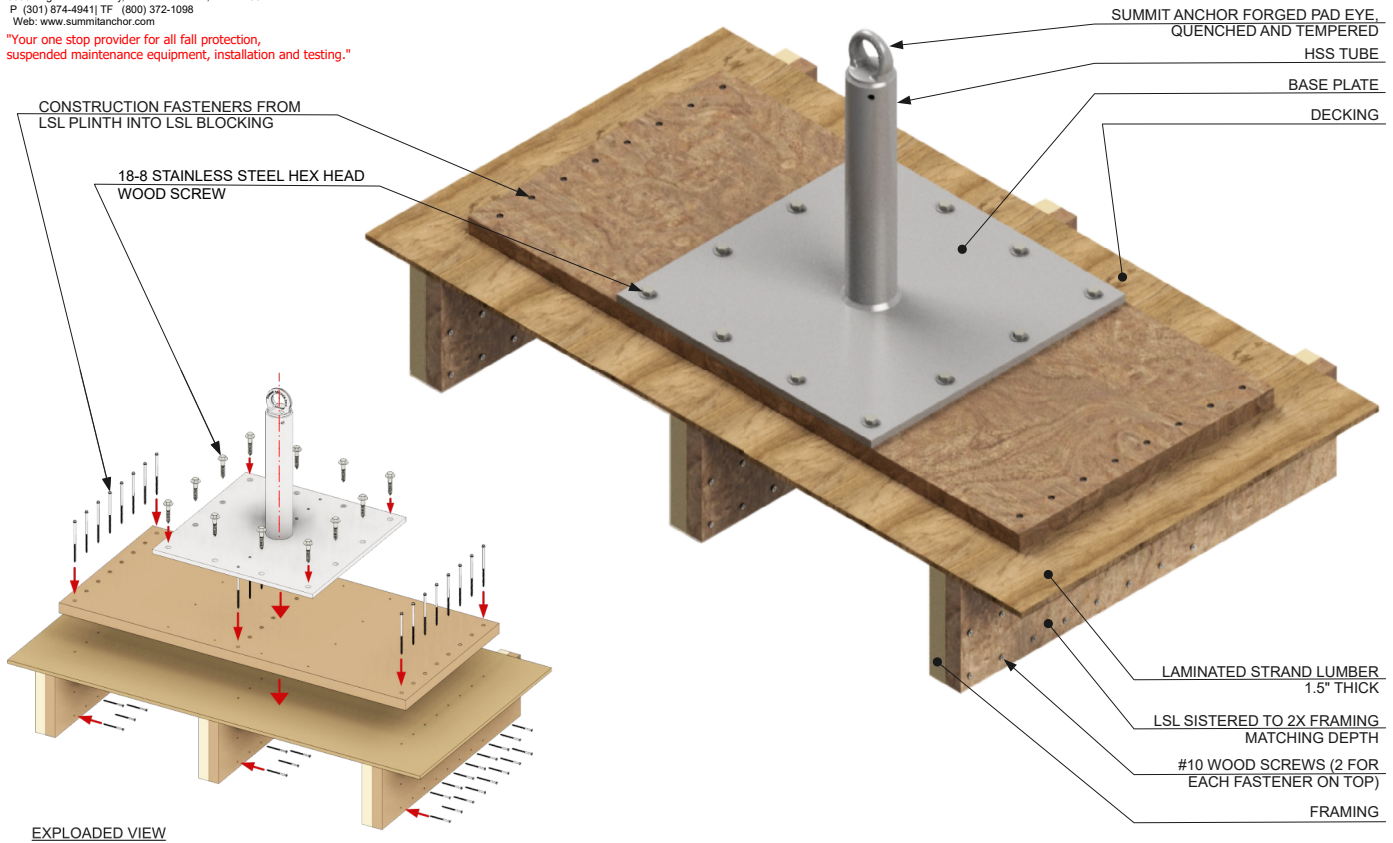
PLOT SCALE: 1:4

PAGE NO. 1 OF 1



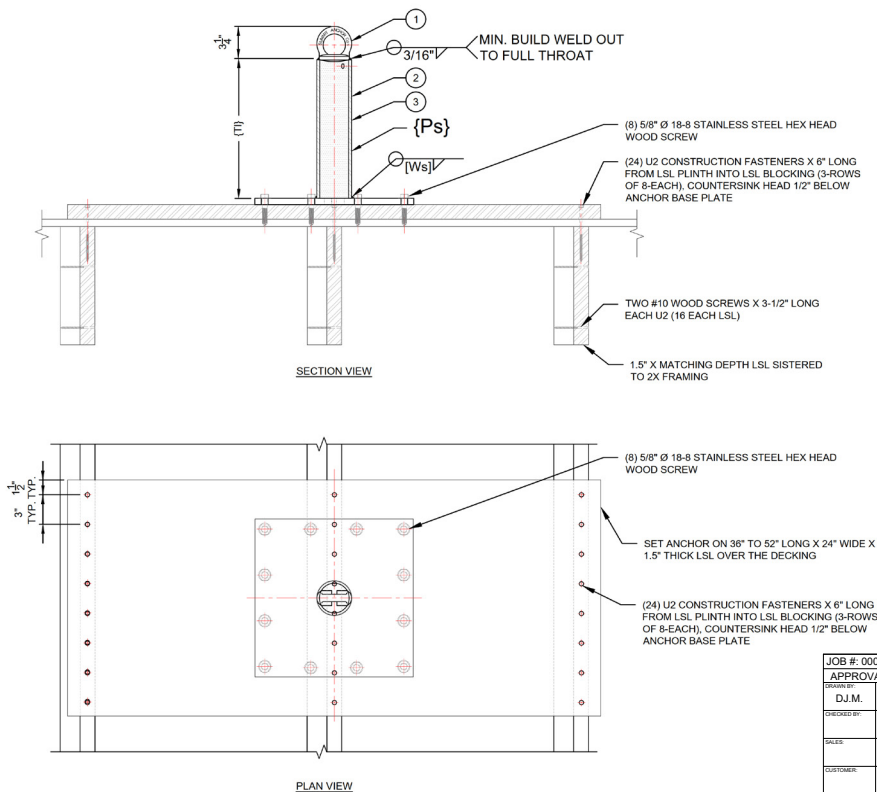
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ROOF ANCHOR BOLTED ON WOODEN STRUCTURE



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



- ① **SM-1:** FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- ② **HSS TUBE:** HEIGHT AND DIAMETER PER THE TABLE BELOW
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MATERIAL DESIGNATION:
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• ALL FORGED PAD EYES: AISI 1035
• WELD WIRE: E70 (MIN. TENSILE STRENGTH OF 70 KSI)
• THREADED RODS: HILTI HAS-R A304 OR A193 B8 CLASS 2 STAINLESS STEEL

JOB #:	00000
APPROVALS	
DESIGNED BY:	D.J.M.
CHECKED BY:	
SALES:	
CUSTOMER:	
SHIP:	

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SUMMIT ANCHOR FORGED PAD EYE, QUENCHED AND TEMPERED

HSS TUBE

ANCHOR SADDLE

FLAT BLOCKING TIGHT AGAINST SADDLE

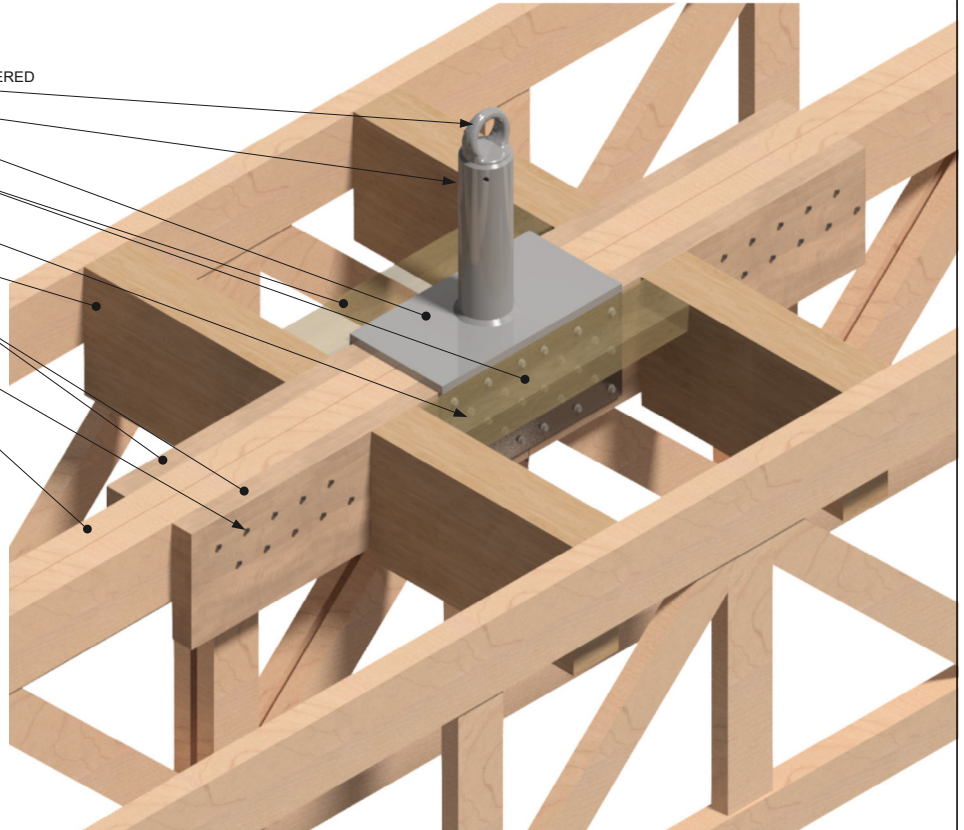
HIGH-STRENGTH STRUCTURAL WOOD SCREWS

BLOCKING W/STRAP PER EOR - MIN. 3 BAYS BOTH
SIDES OF ANCHOR MIN. 48" EACH DIRECTION

ENGINEERED BEAM ATTACHED TO DBL TRUSS
PER EOR - CENTERED TO ANCHOR

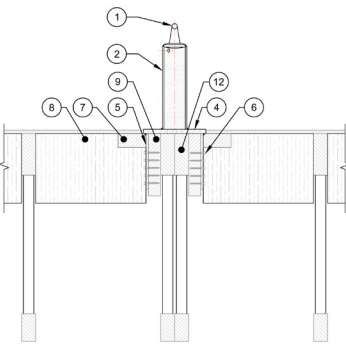
STRONG-DRIVE HEAVY-DUTY CONNECTOR SCREWS

STRUCTURAL SUPPORT DBL TRUSS BY EOR,
2 PLY MIN

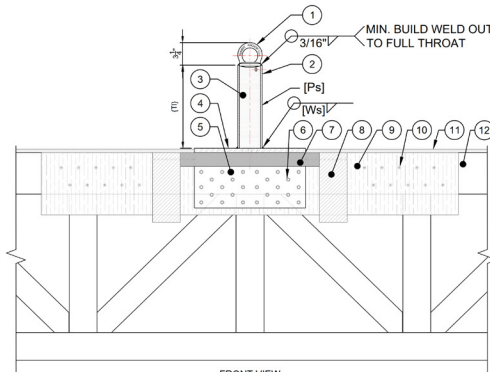


ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
2,500 LB. PROOF LOAD
1,250 LB. WORKING LOAD LIMIT

IN ANY DIRECTION
LOAD MAY BE APPLIED



SECTION VIEW



FRONT VIEW

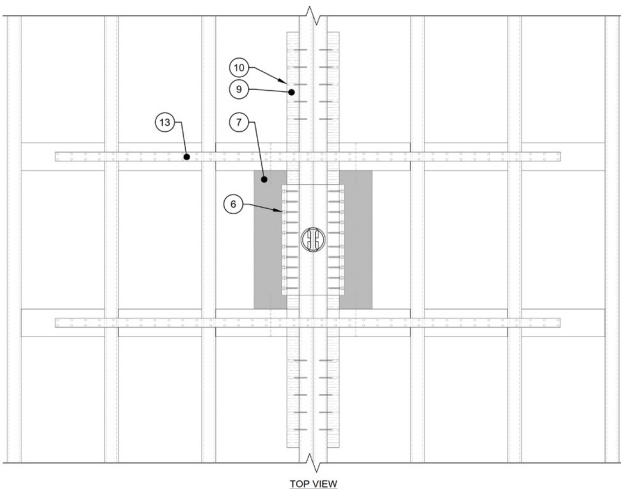
- ① SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
- ② HSS TUBE: HEIGHT AND DIAMETER PER THE TABLE BELOW
- ③ SM-FOM: OPTIONAL MOLDED URETHANE INSULATION REDUCES THERMAL TRANSFER AND CONDENSATION; COMMONLY USED IN GREEN CONSTRUCTION.
- ④ SM-PLT: SADDLE BASE PLATE
- ⑤ SM-PLT: SADDLE SIDE PLATES x2
- ⑥ SDS SCREWS: 1/4" X 2 1/2"
- ⑦ FLAT BLOCKING: TIGHT AGAINST SADDLE
- ⑧ BLOCKING W/STRAP: MIN. 3 BAYS BOTH SIDES OF SA EQUIPMENT MIN. 48" (BY OTHERS)
- ⑨ ENGINEERED BEAM: CENTERED WITH SA EQUIPMENT, ATTACHED TO DBL TRUSS (BY OTHERS)
- ⑩ SDS SCREWS: 1/4" X 3"
- ⑪ ROOF SHEATHING: PER EOR
- ⑫ STRUCTURAL SUPPORT: DBL TRUSS BY EOR, 2 PLY MIN.
- ⑬ STRAP OVER PLYWOOD: MIN. 3 BAYS BOTH SIDES OF SA EQUIPMENT MIN. 48" (BY OTHERS)

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NOTE - CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

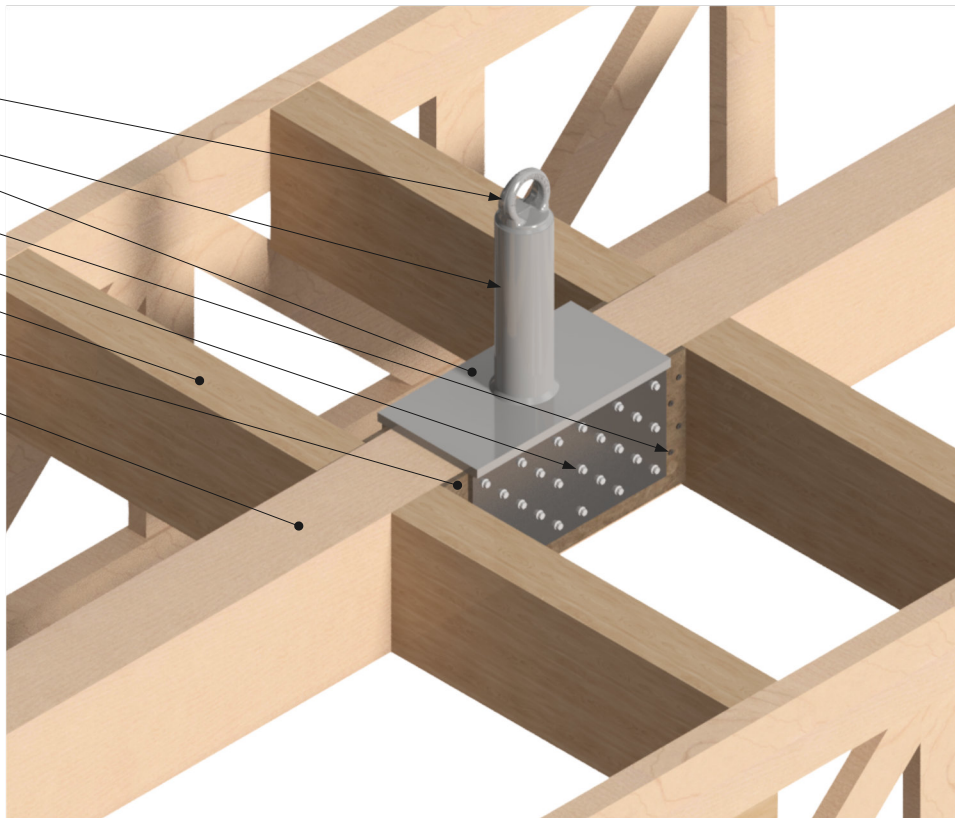
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2. WHEN INSTALLED PROPERLY, SUMMIT ANCHOR STANDARD PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
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TOP VIEW

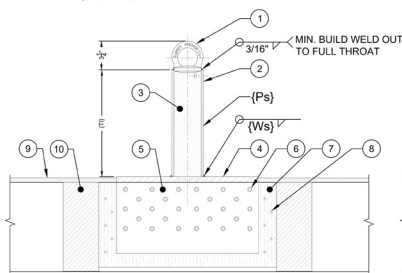
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APPROVALS	DATE	WOODEN ATTACHMENT DETAIL	
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SALES	DATE		
CUSTOMER	DATE		
SHOP	DATE	PROJECT	
SM-1-XX-XX-XX		DRAWING NO.	A-1
		PLOT SCALE:	1:4
		PAGE NO.	1 OF 1

- SUMMIT ANCHOR FORGED PAD EYE, QUENCHED AND TEMPERED
- HSS TUBE
- ANCHOR SADDLE
- ADDITIONAL NAILS FOR FILLER TO EWP - BOTH ENDS
- HIGH-STRENGTH STRUCTURAL WOOD SCREWS
- SOLID PLYWOOD FILLER
- ENGINEERED BEAM ATTACHED TO EWP PER EOR - CENTERED TO THE ANCHOR
- STRUCTURAL BEAM BY EOR

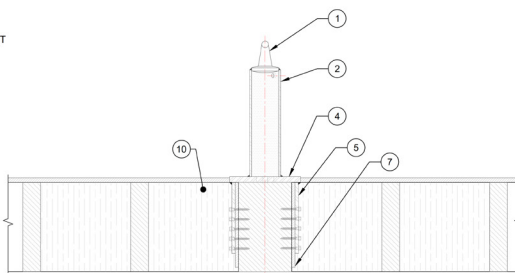


ANCHOR LOADING REQUIREMENTS:
5,000 LB. ULTIMATE LOAD
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1,250 LB. WORKING LOAD LIMIT

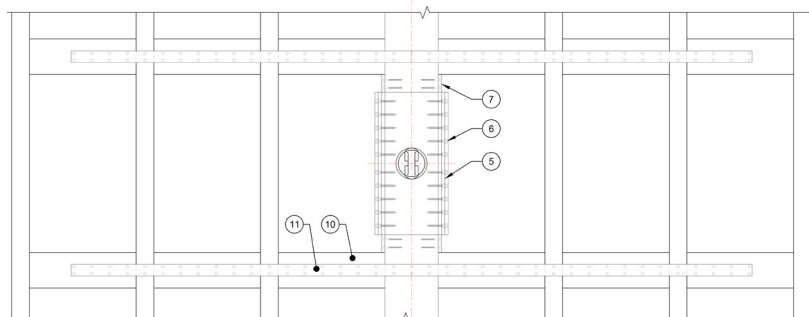
IN ANY DIRECTION
LOAD MAY BE APPLIED



FRONT VIEW



SECTION VIEW



TOP VIEW

- ① SM-1: FORGED PAD EYE, QUENCHED AND TEMPERED. ENTIRE ANCHOR HOT-DIP GALVANIZED AFTER FABRICATION.
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- ④ SM-PLT: SADDLE BASE PLATE
- ⑤ SM-PLT: SADDLE SIDE PLATES x2
- ⑥ SDS SCREWS: 1/4" X 2 1/2"
- ⑦ SOLID PLYWOOD FILLER: TO BE NAILED TO EWP PRIOR TO THE ANCHOR INSTALLATION.
- ⑧ ADDITIONAL NAILS FOR FILLER TO EWP - BOTH ENDS
- ⑨ ROOF SHEATHING: PER EOR
- ⑩ BLOCKING W/STRAP: MIN. 3 BAYS BOTH SIDES OF SA EQUIPMENT, MIN. 48" EACH DIRECTION (BY OTHERS)
- ⑪ STRAP OVER PLYWOOD, BY OTHERS

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JOB #:	00000
APPROVALS	
DESIGNED BY:	D.J.M.
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DATE:	
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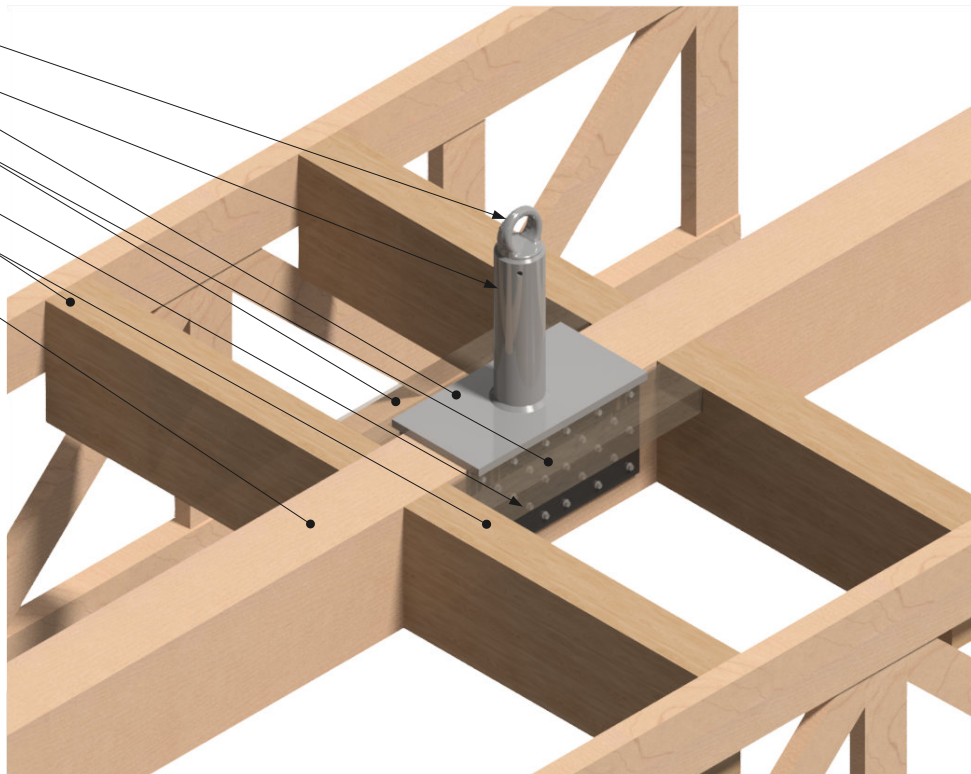
WOODEN ATTACHMENT DETAIL

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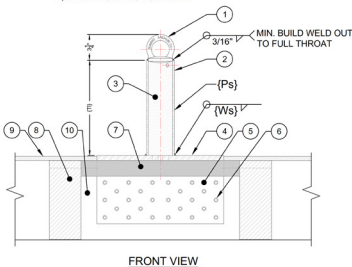


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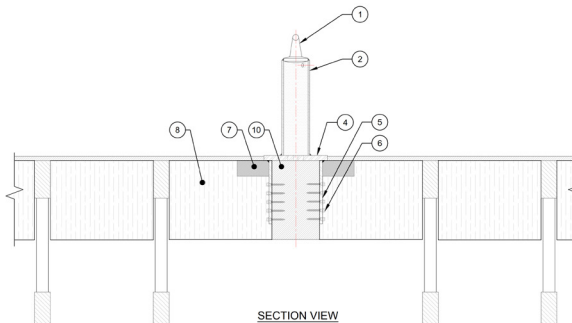


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1,250 LB. WORKING LOAD LIMIT

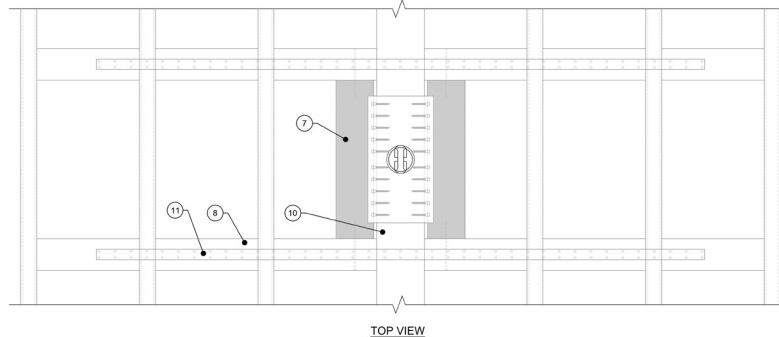
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FRONT VIEW



SECTION VIEW



TOP VIEW

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