Super Anchor Safety 2024 Quick Reference

SAS Commercial Anchors

Established in 1992, Super Anchor Safety manufactures commercial anchor designs with special features not offered by others. Our expert design and sales team work closely with architects, engineers and our dealer network to supply pre-engineered and custom designed fall protection anchors. Manufacturing and shipping lead times are reduced to a minimum based on an extensive inventory. 3rd party testing and engineering to current industrial safety standards are your assurance of high quality design and performance.

Compliance Standards
ANSI Z359.18-17 Type A/P*
CSA Z259.15-20 Type A/P*
ASNSI/IWCA I-14.1 window washing
CAL-OSHA Title 8 CRO anchors
OSHA 1926.502 / 1910.140
3rd Party Engineering/Lab Reports
*3rd party engineering by DH Glabe & Assoc. Report available on request
*Intertek Lab reports available on request.

Custom Services
- Anchor location plan service
- Project specific anchor designs
- Pre-engineered and custom designed HLL systems
- Project specific 3rd party structural engineering
- English/Spanish competent person training classes.

Specifications
- Single person PPE, window washing and horizontal lifeline systems (HLLs)
- Hot dip galvanized (HDG)
- Imported Q235 and 304ss
- USA supplied A-36, 304 and 316sst
- USA certified steel
- High strength single pc. cast steel loop and pass-thru tops w/permanent stamp marks for traceability
- Foam filled risers
- SST threaded vent hole plugs
- HLL accessories

Architects & Design
- BIMsmith Revit and AutoCAD Library
- Full MasterSpec Specification for CRA Anchors
- MasterSpec 11811P Facilities Fall Protection
- CRA Project Starter for Design Professionals
- BIM, AutoCAD, and DWG Files

CRA Anchor
w/S2 Hole Base Plate

CRO CAL-OSHA Anchor
w/8 Hole Base Plate

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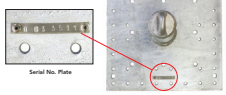
SAS Commercial Anchor Specifications

PID Labels
ANSI/CSA compliant adhesive back product id labels (PID's) specify anchor mfg. details and are factory attached with a clear cover. Replacement labels are available on request.

Serial No. Plate
CRA/CRA-PT imported models with base plates have factory attached serial number plates. Non-stock models display the serial number on the PID label.



SST Vent Hole Plug
When field welded risers require foam filling, it must be applied after welding thru the removable vent hole plug

RLT Field Weld Riser

Field Weld Risers
Heat sensitive PID labels and clear label covers are supplied loose for application after fielding welding.

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Anchor Model Specifications

SAS commercial anchor models are mfg. in two primary sizes: 3.0"od. and 4.5"od. risers with different wall thicknesses based on the riser height. 4.5"od. risers comply with CAL-OSHA Title 8 requirements for window washing and have thicker base plates and 2.0"id. loop tops. Consult catalog pages for model type specifications.

Model Type Comparisons

A Risers			Tensile Strength		Loop/PT Tops			Base Plate		Compliance
OD.	Sch	Height	Min.	● Proof	No.	Type	ID.	No. Holes	Fasteners	
3.0"	40 (0.203)	5"-18"	5,000lb	2,500lb	1090	Q235	1-3/8"	52	● Screws/Bolts	ANSI Z359.18-17 CSA Z259.15-22 ANSI/IWCA I-14.1 OSHA 1926.502
	80 (0.276)	19"-36"			1091					
					1090-S	316sst		4,8,16	● Bolts	
					1091-S					
4.5"	80 (0.337)	5"-36"	5,000lb		1093	Q345	2.0"	4,8,16	● Bolts	CAL-OSHA ANSI/CSA/OSHA
					1093-S	316sst				

▲ CID and wall thickness schedule dimensions are nominal.
● On site proof loading. ● Wood/metal deck screws max. riser ht. 18" single person PPE anchor only.
● Hex head, threaded rod, concrete embedment. Note 1: Risers w/o base plates are field welded on site.

Intertek Lab Reports

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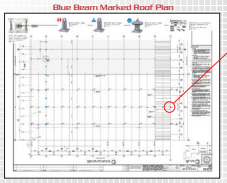
SAS Plan Service

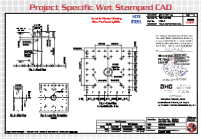
SAS Blue Beam plan service uses unique symbols to represent all of our anchor models.

Blue Beam Marked Roof Plan



Anchor Symbols

Project Specific Wet Stamped CAD



Engineering
SAS offers 3rd party structural engineering including project specific wet stamped anchor CAD's for every state and Canada.

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Anchor Model Types

Standard design anchors mfg. with base plates and 3.0"od. or 4.5" od. risers, are available in sloped, field weld and ridge mounted models. Standard designs are also available by custom mfg. for project specific applications. Consult catalog pages for model type specifications.

Standard Design Anchors w/Loop Tops
Base Plate/Field Weld Risers/Sloped/Ridge Mounted

Anchor Design Options
Symbols appear in the "Request Unit Pricing" sections to specify availability when ordering.

▲ Standard design stock part ready to ship
■ Standard design requires custom mfg. in HDG, 304 and 316sst

Note: The absence of symbols designates SAS factory mfg. at time of ordering. Typically 1-3 days

Horizontal Lifeline Anchors
Base Plate/Field Weld Risers/Sloped/Ridge Mounted

Special Application Anchors
Base Plate/Field Weld Risers/Sloped/Ridge Mounted

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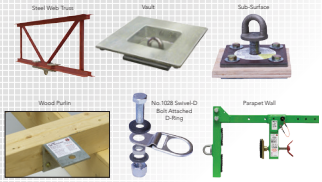
Anchor Model Types

D-Plate Anchors

Metal Roof Panel Anchors

Wood Framing

Special Application Anchors



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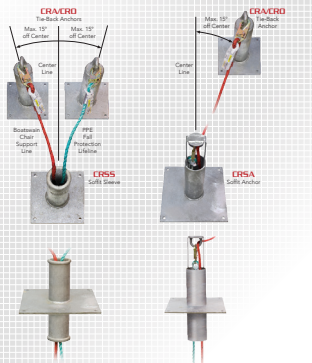
Anchor Model Types

Soffit anchors and sleeves are specified for use with CRA or CRO window washing anchors. The CRSA soffit anchor can be used to support a boatswain chair workers support) or PPE fall protection lifeline anchor. See catalog page for details.



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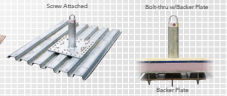
Anchor Installation Examples

Typical anchor installations most commonly specified.

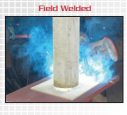
Wood Substrate
Screw Attached

Type-B Metal Decking
Screw Attached
Bolt-thru w/Backer Plate



Structural Steel Support

Field Welded



CMU Block
Bolt-thru w/Backer Plate

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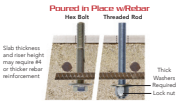
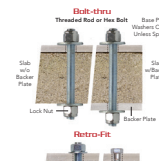
Concrete Specifications

Poured in Place

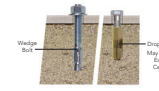
Poured in Place w/Rebar



Bolt-thru
Threaded Rod or Hex Bolt



Retro-Fit



Fall protection anchors installed in concrete substrates require project specific engineering based on the specified use. The examples shown here are for reference only.

Typical Installation Variables
- Specified fall protection use, PPE single person, window washing and HLL systems
- Concrete slab substrate and supporting structure
- Slab thickness and concrete PSI
- Poured in place or retro-fit
- Anchor riser heights and base plate dimensions
- Anchor attachment specifications

Installation Specifications
- 4 or 8 bolt attachment
- Min. 3,000 PSI concrete
- Min. slab thickness 3.0"
- Min. 1/2" grade 5 bolt or ÷
- Epoxy adhesive as required for wedge or drop-in bolts
- Min. #4 rebar used for additional slab reinforcement to be specified by the project engineer or 3rd party structural engineer

Project Specific Engineering
- Project architect or engineer
- 3rd party engineering
- Qualified person per/OSHA definition

J-Bolt

Not Approved for Fall Protection Anchors. Request DH Glabe & Assoc. J-Bolt report.

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QR-Pg.1

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