SECTION 04 05 19

MASONRY ANCHORS AND ACCESSORIES

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\*\* NOTE TO SPECIFIER \*\* Heckmann Building Products Div. of Mechanical Plastics Corp.; anchors, ties, plates, weeps, vents, flashing.
This section is based on the products of Heckmann Building Products Div. of Mechanical Plastics Corp., which is located at:110 Richards Ave.Norwalk, CT 06854Toll Free Tel: 800-621-4140 Fax: 708-865-2640Email: [request info (info@heckmannanchors.com)](https://arcat.com/rfi?action=email&company=Heckmann%252BBuilding%252BProducts%252BDiv.%252Bof%252BMechanical%252BPlastics%252BCorp.&message=RE%253A%2520Spec%2520Question%2520(04085hbp)%253A%2520&coid=33019&spec=04085hbp&rep=&fax=708-865-2640)
Web: <https://heckmannbuildingprods.com>
 [ [Click Here](https://arcat.com/company/heckmann-building-products-div-of-mechanical-plastics-corp-33019) ] for additional information.
Back in 1923, Richard Heckmann began the business by making an automated corrugated wall tie machine at a time when steel was first being used to reinforce masonry. In 1958 he handed the business to his daughter Patricia and her husband Howard Curtis, and today their son, Paul Curtis is our product technical specialist with 45+ years of masonry anchor experience.
We've been working hard to earn the trust of contractors everywhere by delivering the best, hardest working anchors, and ties possible, and we will do the best we can to deliver our made-to-order anchors and ties to you when you need them.
We understand that when reputation matters, architects and contractors choose the best quality materials for their projects, and they work hard for that reputation. For over a century we've worked to ensure that you get the best quality anchors & ties that work hard for you.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Masonry veneer anchors and ties.
		2. Stone veneer anchors and ties.
		3. Masonry accessories.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 04 27 23 - Cavity Wall Unit Masonry.
		2. Section 04 42 00 - Exterior Stone Cladding .
		3. Section 04 43 13 - Stone Masonry Veneer.
		4. Section 04 40 00 - Stone Assemblies.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. TMS 402/602-22 Building Code Requirements and Specification for Masonry Structures 2022.
			1. Anchoring systems.
		2. ASTM A153/A153M-16a - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; - 2023
		3. ASTM A240/A240M-24b Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
		4. ASTM A276/A276M-24a - Standard Specification for Stainless Steel Bars and Shapes ASTM A479/A479M-24 - Standard Specification for Stainless and Heat-Resisting Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels ASTM A580/A580M-23 - Standard Specification for Stainless Steel Wire
		5. ASTM A641/A641M-19 - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire; 1998.
		6. ASTM A666/666M-24 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar
		7. ASTM A1008/A1008M-24 Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable.
		8. ASTM B69-13 Zinc Alloy 710 for Firewall Anchors (available 1/8" thick only)SYSTEM DESCRIPTION
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Manufacturer's submittal sheets on each product to be used.
		3. Certificates: Product certificates signed by the manufacturer certifying material compliance with specified performance characteristics and criteria, and physical requirements.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Store products in manufacturer's unopened packaging until ready for installation.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Heckmann Building Products Div. of Mechanical Plastics Corp., which is located at:110 Richards Ave.Norwalk, CT 06854Toll Free Tel: 800-621-4140 Fax: 708-865-2640Email: [request info (info@heckmannanchors.com)](https://arcat.com/rfi?action=email&company=Heckmann%252BBuilding%252BProducts%252BDiv.%252Bof%252BMechanical%252BPlastics%252BCorp.&message=RE%253A%2520Spec%2520Question%2520(04085hbp)%253A%2520&coid=33019&spec=04085hbp&rep=&fax=708-865-2640);Web: <https://heckmannbuildingprods.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	1. MATERIAL
		1. General:
			1. Stainless Steel: Type 304.
				1. Sheet Metal: ASTM A240/A240M-24b.
				2. Wire: ASTM A580/A580M-23.
				3. Bars: ASTM A479/A479M-24, annealed and ground.
				4. Plates, Bars, and Shapes: ASTM A666/666M-24 or ASTM A276/A276M 24a.
			2. Hot-Dip Galvanized Steel: Hot-dip galvanized after fabrication in accordance with ASTM A153/A153M-16a.
				1. Wire: Minimum 3/16 inch (4.76 mm) diameter.
			3. Mill galvanized steel.
			4. Sheet Metal: ASTM A641/A641M-19

\*\*NOTE TO SPECIFIER \*\* Edit the following combinations of materials. Mill galvanized is typically used for interior applications and hot-dip galvanized and stainless for exterior applications.

* + 1. Material for Anchors and Ties in Interior Walls:
			1. Mill galvanized steel.
			2. Structural Plates, Angles, and Bars: Plain steel primed where exposed.

\*\* NOTE TO SPECIFIER \*\* Select one of the following 3 combinations of materials for exterior and embedded applications: all stainless steel, all hot-dip galvanized, or hot-dip galvanized except for items completely embedded in mortar. Delete the inappropriate choices.

* + 1. Material for Anchors and Ties in Exterior Walls:
			1. Stainless steel.
			2. Hot-dip galvanized after fabrication.
		2. Material for Anchors and Ties Exposed to Air in Exterior Walls:
			1. Stainless steel.
			2. Hot-dip galvanized after Fabrication.
		3. Material for Ties in Interior Walls:
			1. Mill galvanized.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. MASONRY VENEER ANCHORS AND TIES
		1. Adjustable Two Piece Masonry Veneer Ties: Requires minimum 1-1/2 inches (38 mm) embedment in brick mortar or a minimum of one half of the thickness of a block wall with at least 5/8 inches (16 mm) mortar cover to the outside face.

\*\* NOTE TO SPECIFIER \*\* Select the anchor types that are required and delete those not required.

* + - 1. Anchor Type: Original Pos-I-Tie Anchors and Pos-I-Tie Wire Tie.
				1. Pos-I-Tie Barrel Screws:

\*\* NOTE TO SPECIFIER \*\* Delete the screw type and substrate option not required.

Screw Type and Substrate: Self-Drilling Screws. For steel studs.

Screw Type and Substrate: Concrete Screws. For CMU, brick, or wood.

\*\* NOTE TO SPECIFIER \*\* Delete barrel length options not required.

Barrel Length: 5/8 inch (16 mm).

Barrel Length: 1 inch (25 mm).

Barrel Length: 1-1/2 inch (39 mm).

Barrel Length: 2 inch (51 mm).

Barrel Length: 2-1/2 inch (64 mm).

Barrel Length: 3 inch (76 mm).

Barrel Length: 3-1/2 inch (89 mm).

Barrel Length: 4 inch (102 mm).

Barrel Length: 4-1/2 inches (114 mm).

Barrel Length: 5 inches (127 mm).

Barrel Length: 5-1/2 inches (140 mm).

\*\* NOTE TO SPECIFIER \*\* Delete Wire-Tie-Length options not required.

* + - * 1. Pos-I-Tie Wire Ties: Triangle Wire Tie.

Wire Tie Length: 3 inch (76 mm).

Wire Tie Length: 3-1/2 inch (89 mm).

Wire Tie Length: 4 inch (102 mm).

Wire Tie Length: 5 inch (127 mm).

* + - 1. Anchor Type: ThermalClip Pos-I-Tie System:
				1. Pos-I-Tie Barrel Screws (choose type for backup).

\*\* NOTE TO SPECIFIER \*\* Delete screw type options not required.

Screw Type: Self-Drilling Screw for Steel Studs.

Screw Type: Concrete Screw for CMU, Brick, or Wood.

\*\* NOTE TO SPECIFIER \*\* Delete barrel length options not required.

* + - * 1. Barrel Length: 5/8 inch (16 mm).
				2. Barrel Length: 1 inch (25 mm).
				3. Barrel Length: 1-1/2 inch (39 mm).
				4. Barrel Length: 2 inch (51 mm).
				5. Barrel Length: 2-1/2 inch (64 mm).
				6. Barrel Length: 3 inch (76 mm).
				7. Barrel Length: 3-1/2 inch (89 mm).
				8. Barrel Length: 4 inches (102 mm).
				9. Barrel Length: 4-1/2 inches (114 mm).
				10. Barrel Length: 5 inches (127 mm).
				11. Barrel Length: 5-1/2 inches (140 mm).
				12. Anchor Type: Pos-I-Tie Wire Ties. Pintle Wire Tie:

\*\* NOTE TO SPECIFIER \*\* Delete wire tie length options not required.

Wire Tie Length: 3 inch (76 mm).

Wire Tie Length: 3-1/2 inch (89 mm).

Wire Tie Length: 4 inch (102 mm).

Wire Tie Length: 5 inch (127 mm).

POS-I-TIE THERMALCLIP COMPOSITE THERMAL BREAK CLIP

* + - 1. Anchor Type: Strap Anchors with Triangle Ties:
				1. Strap Anchor: For attachment to backup using triangle ties.

\*\* NOTE TO SPECIFIER \*\* Delete the weld-on or screw-on paragraph. Whichever is not required.

Weld-On Anchor Rod No.315:

\*\* NOTE TO SPECIFIER \*\* Delete diameter and steel type options not required.

Diameter: 1/4 inch (6.3 mm). Length: 5 inches (127 mm).

Diameter: 1/4 inch (6.3 mm). Length: 9 inches (229 mm).

Steel Type: Type 304 Stainless Steel.

Steel Type: Plain Steel.

Screw-On Anchor Plate No.315-D (WxL): 1-1/4 x 6 inches (32 x 152 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material thickness and steel type options not required.

Material Thickness: 12 gage (2.7 mm).

Material Thickness: 14 gage (1.9 mm).

Steel Type: Type 304 Stainless Steel.

Steel Type: Hot dip galvanized.

* + - * 1. Triangle Tie: No.316 Triangle Tie 3/16 inch diameter (4.76 mm).

\*\* NOTE TO SPECIFIER \*\* Delete length and steel type options not required.

Length: 3 inch (76 mm).

Length: 4 inch (102 mm).

Length: 5 inch (127 mm).

Length: 6 inch (152 mm).

Length: 7 inch (178 mm).

Length: 9 inch (229 mm) log.

Steel Type: Type 304 stainless steel.

Steel Type: Hot dip galvanized.

* + - 1. Anchor Type: Strap Anchors with Pintle Ties:
				1. Strap Anchor for attachment to backup with pintle tie:

Wire Veneer Anchor System No.213: 14 gage (1.9 mm) backplate for use with following insulation thickness:

\*\* NOTE TO SPECIFIER \*\* Delete insulation and steel type options not required.

Insulation: None.

Insulation: 1 inch (25 mm).

Insulation: 1-1/2 inches (38 mm).

Insulation: 2 inches (51 mm).

Insulation: 2-1/2 inch (64 mm).

Insulation: 3 inches (76 mm).

Insulation: 3-1/2 inches (89 mm).

Insulation: 4 inches (102 mm).

Steel Type: Type 304 Stainless Steel.

Steel Type: Hot dip Galvanized.

* + - * 1. Double Pintle Wire Tie No.282: 3/16 inch (5 mm) diameter.

\*\* NOTE TO SPECIFIER \*\* Delete length and steel type options not required.

Length: 3-1/4 inch (83 mm).

Length: 4-1/4 inch (108 mm).

Length: 5-1/4 inch (133 mm).

Steel Type: Type 304 stainless steel.

Steel Type: Hot dip galvanized.

* + 1. One Piece Non-Adjustable Masonry Veneer Ties:

\*\* NOTE TO SPECIFIER \*\* Select one of the following anchor type paragraphs and delete those not required.

* + - 1. Anchor Type: Triangular Wire Veneer Anchor, No.103-C, 12 gage (2.7 mm) anchor with 3/16 inch diameter (4.76 mm) Triangle tie.

\*\* NOTE TO SPECIFIER \*\* Delete Length and steel type options not required.

* + - * 1. Length: 3 inch (76 mm) long.
				2. Length: 4 inch (102 mm) long.
				3. Length: 5 inch (127 mm) long.
				4. Length: 7 inch (178 mm) long.
				5. Length: 9 inch (229 mm) long.
				6. Steel Type: Type 304 Stainless Steel.
				7. Steel Type: Hot dip Galvanized.
			1. Anchor Type: Corrugated Brick Veneer Anchor No.187, one-piece rigid bent straps, screwed on, with corrugated ends.
				1. Gage: 16 gage (1.5 mm).
				2. Width: 1-1/4 inch (32 mm).

\*\* NOTE TO SPECIFIER \*\* Delete length and steel type options not required.

* + - * 1. Length: 3-1/2 inch (89 mm).
				2. Length: 5-1/2 inch (140 mm).
				3. Steel Type: Type 304 Stainless steel.
				4. Steel Type: Hot dip galvanized.
				5. Hole Diameter: 5/16 inches (8 mm).
				6. Bend: 1-1/2 inch (38 mm).
			1. Anchor Type: Z-Wire Tie 2 inch (51 mm) bends No.251.

\*\* NOTE TO SPECIFIER \*\* Delete diameter and length options not required.

* + - * 1. Diameter: 3/16 inch (4.76 mm).
				2. Diameter: 1/4 inch (6.3 mm).
				3. Length: 6 inch (152.4 mm).
				4. Length: 8 inch (203 mm).
				5. Length: 10 inch (254 mm).
			1. Anchor Type: Series Custom Anchors No.340.

\*\* NOTE TO SPECIFIER \*\* Delete anchor options not required.

* + - * 1. L -Type Corrugated Anchor No.340.
				2. Corrugated L-Anchor With Hole No.340-A.
				3. Corrugated L-Anchor with Slot No.340-B.
				4. L-Anchor with Hole No.341.
				5. L-Anchor with Two Holes No.341-A.
				6. L-Anchor with a Hole and Slot No.341-B.
				7. Slotted L-Anchor No.342.
				8. L-Anchor with Hole and Slot No.342-A.
				9. L-Anchor with Two Slots No.342-B.

\*\* NOTE TO SPECIFIER \*\* Edit the following paragraphs as required. Delete paragraphs not required.

* + - * 1. Gauge: \_\_\_\_\_\_\_\_.
				2. Length: \_\_\_\_\_\_\_\_.
				3. Thickness: \_\_\_\_\_\_\_\_.
				4. Width: \_\_\_\_\_\_\_\_.
				5. Bend Length: \_\_\_\_\_\_\_\_.
				6. Hole Size and Location Where Applicable: \_\_\_\_\_\_\_\_.
				7. Slot Size and Location Where Applicable: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete steel type option not required.

* + - * 1. Steel Type: Type 304 Stainless Steel.
				2. Steel Type: Zinc Alloy 710 Firewall Material.
			1. Anchor Type: Anchor/Ties to Structural Steel: One-piece straps that hook over beam/column flanges and into masonry cores; use in pairs.
			2. Anchor Type: Where vertical column flanges are parallel to wall, use:

\*\* NOTE TO SPECIFIER \*\* Delete L-Type or Corrugated Type column anchor. Whichever is not required. Delete steel type not required.

* + - * 1. L-Type Column Anchor No.189:

Thickness: 1/8 inch (3.1 mm).

Width: 2 inch (51 mm).

Length: 7 inch (178 mm).

Flange Slot: 5/8 inch (15.8 mm) by 1 inch (25.5 mm).

Bend: 1-1/2 inch (38 mm).

Steel Type: Type 304 stainless steel.

Steel Type: Zinc alloy 710 firewall material.

* + - * 1. Corrugated Type Column Anchor No.196:

Thickness: 1/8 inch (3.1 mm).

Width: 2 inch (51 mm).

Length: 7 inch (178 mm).

Flange Slot: 5/8 inch (15.8 mm) by 1 inch (25.5 mm).

Steel Type: Type 304 stainless steel.

Steel Type: Zinc alloy 710 firewall material.

* + - 1. Anchor Type: Where vertical column flanges are perpendicular to wall, use:
				1. Twisted L-Type Column Anchor No.195:

Thickness: 1/8 inch (3.1 mm).

Width: 1-1/4 inch (31 mm).

\*\* NOTE TO SPECIFIER \*\* Delete length option not required.

Length: As indicated on the Drawings.

Length: \_\_\_ inches (\_\_\_ mm).

Flange Foldback: 1-1/4 inch (32 mm) by 1-1/2 inch (38 mm).

* + - * 1. Corrugated Column Anchor No.197:

Thickness: 1/8 inch (3.1 mm).

Width: 1-1/4 inch (31 mm).

Length: \_\_\_ inches (\_\_\_ mm).

Flange Foldback: 1-1/4 inch (32 mm) by 1-1/2 inch (38 mm).

\*\* NOTE TO SPECIFIER \*\* Delete steel type option not required.

Steel Type: Type 304 stainless steel.

Steel Type: Zinc alloy 710 firewall material.

* + - 1. Anchor Type: Where beam flanges are perpendicular to wall, use:

\*\* NOTE TO SPECIFIER \*\* Delete flange and steel type options not required.

* + - * 1. Top Flange Column Anchor No.191:

Thickness: 1/8 inch (3.1 mm).

Width: 1-1/4 inch (31 mm).

Length: \_\_\_ inches (\_\_\_ mm).

Bend: \_\_\_ inches (\_\_\_ mm).

Flange Foldback: 1-1/4 inch (32 mm) by 1-1/2 inch (38 mm).

Steel Type: Type 304 Stainless Steel.

Steel Type: Zinc Alloy 710 Firewall Material.

* + - * 1. Bottom Flange Column Anchor No.192:

Thickness: 1/8 inch (3.1 mm).

Width: 1-1/4 inch (31 mm).

\*\* NOTE TO SPECIFIER \*\* Delete length and steel type options not required.

Length: As indicated on the Drawings.

Length: \_\_\_ inches (\_\_\_ mm).

Flange Foldback: 1-1/4 inch (32 mm) by 1-1/2 inch (38 mm).

Steel Type: Type 304 Stainless Steel.

Steel Type: Zinc Alloy 710 Firewall Material.

* + - 1. Anchor Type: Twist-On Corrugated Column Anchor No. 394: 1/8 or 3/16 inches by 3-1/4 inch (38 mm) wide corrugated anchor with Twist-On Hook.

\*\* NOTE TO SPECIFIER \*\* Delete length, diameter and steel type options not required.

* + - * 1. Length: As indicated on the Drawings.
				2. Length: \_\_\_ inches (\_\_\_ mm).
				3. Diameter of Vertical Sliding Rail: 1/2 inch (13 mm).
				4. Diameter of Vertical Sliding Rail: 3/4 inch (19 mm).
				5. Diameter of Vertical Sliding Rail: 1 inch (25 mm).
				6. Steel Type: Type 304 Stainless Steel.
				7. Steel Type: Zinc Alloy 710 Firewall Material.

\*\* NOTE TO SPECIFIER \*\* Select the stone anchors and ties required the following paragraphs. Delete the ones not required. Custom strap ties, fabricated to suit details and installation requirements. Indicate sizes requires. Delete article if not required.

* 1. STONE VENEER ANCHORS AND TIES
		1. For Anchoring Into Edge of Dimension Stone Panels:
			1. Dovetail Stone Pin Anchor No.118: Use with concrete backup containing No.100 Dovetail Anchor Slot.

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required. 3/16 inches is standard.

* + - * 1. Metal Thickness: 1/4 inches (6.4 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.1 mm).
				4. Metal Thickness: 12 gage (2.7 mm).
				5. Width: 1 inch (25 mm).
				6. Length: \_\_\_ inches (\_\_\_ mm).
				7. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.35 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Diameter: 1/2 inch (12.5 mm).

Pin Diameter: 5/8 inch (15.87 mm).

Pin Length: \_\_\_ inches (\_\_\_ mm).

Steel Type: Type 304 stainless steel.

* + - 1. Channel Slot Pin Anchor No.137: Use with backup system with channel slots.

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required.

* + - * 1. Metal Thickness: 12 Gage (2.7 mm).
				2. Metal Thickness: 1/4 inch (6.4 mm).
				3. Metal Thickness: 3/16 inch (4.7 mm).
				4. Metal Thickness: 1/8 inch (3.1 mm).
				5. Width: 1-1/4 inch (31.71 mm).
				6. Length: \_\_\_ inches (\_\_\_ mm).
				7. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.35 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Diameter: 1/2 inch (12.5 mm).

Pin Diameter: 5/8 inch (15.87 mm).

Length: 3 inches (76 mm).

* + - 1. Flat Pin Stone Anchor No.150:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: 1-1/4 inch (31.71 mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.35 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Diameter: 1/2 inch (12.5 mm).

Pin Diameter: 5/8 inch (15.87 mm).

Pin Length: \_\_\_ inches (\_\_\_ mm).

Steel Type: Type 304 Stainless Steel

* + - 1. Corrugated Stone Pin Anchor No.151:
				1. Metal Thickness:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required.

Metal Thickness: 1/4 inch (6.35 mm).

Metal Thickness: 3/16 inch (4.7 mm).

Metal Thickness: 1/8 inch (3.17 mm).

* + - * 1. Width: 1-1/4 inch (32 mm).
				2. Length: \_\_\_ inches (\_\_\_ mm).
				3. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.35 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Diameter: 1/2 inch (12.7 mm).

Pin Diameter: 5/8 inch (15.87 mm).

Pin Length: \_\_\_ inches (\_\_\_ mm).

Steel Type: Type 304 Stainless Steel.

* + - 1. L-Type Stone Pin Anchor No.152:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness and bend options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: 1-1/4 inch (31.71 mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Bend: 3/4 inch (19 mm).
				7. Bend: \_\_\_ inches (\_\_\_ mm).
				8. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.35 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Diameter: 1/2 inch (12.5 mm).

Pin Diameter: 5/8 inch (15.87 mm).

Pin Length: \_\_\_ inches (\_\_\_ mm).

Steel Type: Type 304 stainless steel.

* + - 1. L-Type Stone Half-Pin Anchor No.152-A:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: 1-1/4 inch (31.71 mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Bend 3/4 inch (19 mm).
				7. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.35 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Diameter: 1/2 inch (12.5 mm).

Pin Diameter: 5/8 inch (15.87 mm).

Pin Length: \_\_\_ inches (\_\_\_ mm).

Steel Type: Type 304 Stainless Steel.

* + - 1. Split Bend Pin Anchor No.152-S:

\*\* NOTE TO SPECIFIER \*\* Delete metal options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: 1-1/4 inch (31.71 mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Split Bend 3/4 inch (19 mm).
				7. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.35 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Diameter: 1/2 inch (12.5 mm).

Pin Diameter: 5/8 inch (15.87 mm).

Pin Length: \_\_\_ inches (\_\_\_ mm).

Steel Type: Type 304 Stainless Steel.

* + - 1. Two-Way Stone Pin Anchor No.154:

\*\* NOTE TO SPECIFIER \*\* Delete metal options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: 1-1/4 inch (31.71 mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.35 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Diameter: 1/2 inch (12.5 mm).

Pin Diameter: 5/8 inch (15.87 mm).

Pin Length: \_\_\_ inches (\_\_\_ mm).

Steel Type: Type 304 stainless steel.

* + - 1. Double Half-Pin Stone Anchor No.154-A:

\*\* NOTE TO SPECIFIER \*\* Delete metal options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: 1-1/4 inch (31.71 mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.35 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Diameter: 1/2 inch (12.5 mm).

Pin Diameter: 5/8 inch (15.87 mm).

Pin Length: \_\_\_ inches (\_\_\_ mm).

Steel Type: Type 304 stainless steel.

* + - 1. Pin-Type Screw-On Anchor No.276:

\*\* NOTE TO SPECIFIER \*\* Delete metal options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: 1-1/4 inch (31.71 mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.35 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Diameter: 1/2 inch (12.5 mm).

Pin Diameter: 5/8 inch (15.87 mm).

Pin Length: \_\_\_ inches (\_\_\_ mm).

Steel Type: Type 304 stainless steel.

* + - 1. Split-Bend Screw on Stone Anchor. No.274:

\*\* NOTE TO SPECIFIER \*\* Delete metal and steel type options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: 1-1/4 inch (31.71 mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Split Bend: 3/4 inch (19 mm).
				7. Steel Type: Type 304 stainless steel.
				8. Steel Type: Zinc alloy 710 firewall material.
			1. Bent Screw-on Stone Anchor No.275.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs, whichever one is not required.

* + - * 1. No.275-U for both bends in same direction.
				2. No.275-Z for bends in opposite directions.

\*\* NOTE TO SPECIFIER \*\* Delete metal and steel type options not required.

* + - * 1. .Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: \_\_\_ inches (\_\_\_ mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Bend: \_\_\_ inches (\_\_\_ mm).
				7. Steel Type: Type 304 stainless steel.
				8. Steel Type: Zinc alloy 710 firewall material.
		1. For Anchoring Into Edge of Dimension Stone Panels: Use slot type;
			1. Dovetail Bent Stone Anchor No.115 (For use with concrete backup with No.100 Dovetail Anchor Slot.

\*\* NOTE TO SPECIFIER \*\* Delete metal and steel type options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: 1 inch (25.5 mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Bend: \_\_\_ inches (\_\_\_ mm).
				7. Steel Type: Type 304 stainless steel,
				8. Steel Type: Zinc Alloy 710 firewall material,
			1. Dovetail Split-Bend Anchor No.117: Anchor. For use with concrete backup with No.100 Dovetail Anchor Slot.
				1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm) .
				3. Width: 1-1/4 inch (31.75 mm).
				4. Length: \_\_\_ inches (\_\_\_ mm).
				5. Split Bend: \_\_\_ inches (\_\_\_ mm).

Split Bend Length: \_\_\_ inches (\_\_\_ mm).

* + - 1. Channel Slot Bent Anchor No.135: Use with backup system with Channel Slots.

\*\* NOTE TO SPECIFIER \*\* Delete metal and steel type options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: 1-1/4 inch (31.75 mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Bend: 3/4 inch (19 mm).
				7. Steel Type: Type 304 stainless steel.
				8. Steel Type: Zinc alloy 710 firewall material.
			1. Split-Bend Channel Slot Anchor No.136: Use with backup system with channel slots.

\*\* NOTE TO SPECIFIER \*\* Delete metal and steel type options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.35 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.17 mm).
				4. Width: 1-1/4 inch (31.75 mm).
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Split-Bend: \_\_\_ inches (\_\_\_ mm).
				7. Steel Type: Type 304 Stainless Steel.
				8. Steel Type: Zinc Alloy 710 Firewall Material.
		1. For Anchoring Into Edge of Dimension Stone Panels:
			1. Z-Type Stone Anchor No.140:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required.

* + - * 1. Metal Thickness: 1/2 inch (12.7 mm).
				2. Metal Thickness: 3/8 inch (9.53 mm).
				3. Metal Thickness: 1/4 inch (6.35 mm).
				4. Metal Thickness: 3/16 inch (4.76 mm).
				5. Metal Thickness: 1/8 inch (3.17 mm).
				6. Width: \_\_\_ inches (\_\_\_ mm).
				7. Length: \_\_\_ inches (\_\_\_ mm).
				8. Bends: \_\_\_ inches (\_\_\_ mm).
				9. Steel Type: type 304 Stainless Steel.
			1. U-Type Stone Anchor No.141:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required.

* + - * 1. Metal Thickness: 1/2 inch (12.7 mm).
				2. Metal Thickness: 3/8 inch (9.53 mm).
				3. Metal Thickness: 1/4 inch (6.35 mm).
				4. Metal Thickness: 3/16 inch (4.76 mm).
				5. Metal Thickness: 1/8 inch (3.17 mm).
				6. Width: \_\_\_ inches (\_\_\_ mm).
				7. Length: \_\_\_ inches (\_\_\_ mm).
				8. Bends: \_\_\_ inches (\_\_\_ mm).
				9. Steel Type: Type 304 stainless steel.
			1. Twisted -Type Stone Anchor No.143:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness and width options not required.

* + - * 1. Metal Thickness: 3/16 inch (4.76 mm).
				2. Metal Thickness: 1/8 inch (3.17 mm).
				3. Metal Thickness: 11 gage (3.0 mm).
				4. Metal Thickness: 12 gage (2.7 mm).
				5. Metal Thickness: 16 gage (1.5 mm).
				6. Width: 1-1/4 inch (32 mm).
				7. Width: 1-1/2 inch (38 mm).
				8. Length: \_\_\_ inches (\_\_\_ mm).
				9. Bend: \_\_\_ inches (\_\_\_ mm).
				10. Steel Type: Type 304 stainless steel.
			1. L-Type Stone Anchor No.144:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required.

* + - * 1. Metal Thickness: 1/2 inch (12.7 mm).
				2. Metal Thickness: 3/8 inch (9.53 mm).
				3. Metal Thickness: 1/4 inch (6.35 mm).
				4. Metal Thickness: 3/16 inch (4.76 mm).
				5. Metal Thickness: 1/8 inch (3.17 mm).
				6. Width: \_\_\_ inches (\_\_\_ mm).
				7. Length: \_\_\_ inches (\_\_\_ mm).
				8. Bend: \_\_\_ inches (\_\_\_ mm).
				9. Steel Type: Type 304 stainless steel.
			1. Split Bend Stone Anchor No.145:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required.

* + - * 1. Metal Thickness: 3/8 inch (9.53 mm).
				2. Metal Thickness: 1/4 inch (6.35 mm).
				3. Metal Thickness: 3/16 inch (4.76 mm).
				4. Metal Thickness: 1/8 inch (3.17 mm).
				5. Width: \_\_\_ inches (\_\_\_ mm).
				6. Length: \_\_\_ inches (\_\_\_ mm).
				7. Split Bends: \_\_\_ inches (\_\_\_ mm).
				8. Bend: \_\_\_ inches (\_\_\_ mm).
				9. Steel Type: Type 304 stainless steel.
			1. Flat Split-Bend Stone Anchor No.148:

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

* + - * 1. Metal Thickness: 3/8 inch (9.53 mm).
				2. Metal Thickness: 1/4 inch (6.35 mm).
				3. Metal Thickness: 3/16 inch (4.76 mm).
				4. Metal Thickness: 1/8 inch (3.17 mm).
				5. Width: \_\_\_ inches (\_\_\_ mm).
				6. Length: \_\_\_ inches (\_\_\_ mm).
				7. Split Bend: \_\_\_ inches (\_\_\_ mm).
				8. Steel Type: Type 304 stainless steel.
			1. Dowel No.155:

\*\* NOTE TO SPECIFIER \*\* Delete metal diameter options not required.

* + - * 1. Metal Diameter: 3/16 inch (4.7 mm).
				2. Metal Diameter: 1/4 inch (6.35 mm).
				3. Metal Diameter: 3/8 inch (9.5 mm).
				4. Metal Diameter: 1/2 inch (12.5 mm).
				5. Metal Diameter: 5/8 inch (15.9 mm).
				6. Metal Diameter: 3/4 inch (22.22 mm).
				7. Metal Diameter: 1 inch (25.4 mm).
				8. Length: \_\_\_ inches (\_\_\_ mm).
				9. Steel Type: Type 304 stainless steel.
			1. No 355 Spring Loaded Dowel

\*\* NOTE TO SPECIFIER \*\* Delete diameter and length options not required.

* + - * 1. Metal Diameter: 3/8 inch (9.5 mm).
				2. Metal Diameter: 1/02 inch (12.5 mm).
				3. Length: 3 inches (76 mm).
				4. Length: 4 inches (102 mm).
				5. Material: Type 304 stainless steel.

\*\* NOTE TO SPECIFIER \*\* The following anchors are part of a two part system - the part that attaches to the backup or structure and the tie or other attachment to the cladding. These anchors are suitable for masonry veneer, stone, and other claddings. Be sure, if any of these are used, that the second part - the tie or other attachment to the cladding is also specified. Delete the types not required. If more than one type for a particular application is required, be sure to indicate where each is to be used. Delete article if not required.

* 1. CHANNEL SLOT ANCHORS AND TIES

\*\* NOTE TO SPECIFIER \*\* Delete any of the following types that would not be likely to be required on the project.

* + 1. Weld-On Type Channel Slots:
			1. Weld-On Channel Slots: No.130.
				1. Size (WxL): 1-3/8 x 8 inches (35 x 203 mm).
				2. Slot: 9/16 x 5-1/2 inch (14 x 140 mm).

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required.

* + - * 1. Steel Type: Type 304 stainless steel, 11 gage (3.0 mm).
				2. Steel Type: Type 304 stainless steel, 16 gage (1.5 mm).
				3. Steel Type: Hot dip galvanized steel, 12 gage (2.7 mm).
		1. Screw-On Type Channel Slots:
			1. Channel Slots: No.132.
				1. Size (W x L): 1-5/8 x 6 inches (41 x 152 mm)
				2. Slot: 9/16 x 3 inch (14 x 76 mm).
				3. Steel Type: Type 304 stainless steel. 2 gage (2.7 mm).
		2. Continuous Slots:
			1. Channel Slots: No.133.
				1. Size: 7-3/8 inch (187 mm) slots with 3/4 inch (19 mm) between slots.
				2. Holes: 5/16 inch (8 mm) diameter between slots for anchoring to backup with fasteners.

\*\* NOTE TO SPECIFIER \*\* Delete length and thickness options not required.

* + - * 1. Length: 5 feet (1.524 m) 7 slots.
				2. Length: 10 feet (3.048 m) 14 slots.
				3. Metal Thickness: 16 gage (1.5 mm).
				4. Metal Thickness: 11 gage (3.0 mm)
			1. Channel Slot Triangular Wire Tie No.129:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness and length options not required.

* + - * 1. Metal Thickness: 12 gage (2.7 mm) channel slot clip.
				2. Metal Thickness: 3/16 inch (4.76 mm) diameter wire triangle tie.
				3. Length: 3 inch (76 mm).
				4. Length: 4 inch (102 mm).
				5. Length: 5 inch (127 mm).
				6. Length: 6 inch (152 mm).
				7. Length: 7 inch (178 mm).
				8. Length: 9 inch (229 mm).
				9. Steel Type: Type 304 stainless steel.
			1. Channel Slot Corrugated Anchors No.134:

\*\* NOTE TO SPECIFIER \*\* Delete thickness and steel type options not required. 16 gage is standard.

* + - * 1. Thickness: 3/16 inch (4.8 mm).
				2. Thickness: 1/8 inch (3.1 mm).
				3. Thickness: 16 gage (1.5 mm).
				4. Width: 1-1/4 inches (32 mm) wide.
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Steel Type: Type 304 stainless steel.
				7. Steel Type: Zinc Alloy 710 firewall material.
			1. Channel Slot Stone Anchor No.135:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness and steel type option not required.

* + - * 1. Metal Thickness: 1/8 inch (3.1 mm).
				2. Metal Thickness: 1/4 inch (6.4 mm).
				3. Metal Thickness: 3/16 inch (4.8 mm).
				4. Width: 1-1/4 inches (32 mm) wide.
				5. Length: \_\_\_ inches (\_\_\_ mm).
				6. Bend Length: \_\_\_ inches (\_\_\_ mm).
				7. Steel Type: Type 304 stainless steel.
				8. Steel Type: Zinc Alloy 710 firewall material.
			1. Channel Slot Split Bend Anchor No.136:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness and steel type options not required.

* + - * 1. Metal Thickness: 11 gage (3.0 mm).
				2. Metal Thickness: 1/8 inch (3.1 mm).
				3. Metal Thickness: 1/4 inch (6.4 mm).
				4. Metal Thickness: 3/16 inch (4.8 mm).
				5. Width: 1-1/4 inches (32 mm) wide.
				6. Length: \_\_\_ inches (\_\_\_ mm).
				7. Bend Length: \_\_\_ inches (\_\_\_ mm).
				8. Steel Type: Type 304 stainless steel.
				9. Steel Type: Zinc Alloy 710 firewall material.
			1. Channel Slot Pin Stone Anchor No.137:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required.

* + - * 1. Metal Thickness: 14 gage (1.9 mm).
				2. Metal Thickness: 11 gage (3.0 mm).
				3. Metal Thickness: 1/8 inch (3.1 mm).
				4. Metal Thickness: 1/4 inch (6.4 mm).
				5. Metal Thickness: 3/16 inch (4.8 mm).
				6. Width: 1-1/4 inches (32 mm) wide.
				7. Length: \_\_\_ inches (\_\_\_ mm).
				8. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.35 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Diameter: 1/2 inch (12.5 mm).

Length: \_\_\_ inches (\_\_\_ mm).

* + - * 1. Hole centered \_\_\_ inches (\_\_\_ mm) from end of anchor.
				2. Steel Type: Typ3 304 stainless steel.
			1. Channel Slot Flat Anchor No.138:

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required.

* + - * 1. Metal Thickness: 1/8 inch (3.1 mm).
				2. Metal Thickness: 1/4 inch (6.4 mm).
				3. Metal Thickness: 3/16 inch (4.8 mm).
				4. Width: 1-1/4 inch (32 mm) wide.
				5. Length: \_\_\_ inches (\_\_\_ mm).

\*\* NOTE TO SPECIFIER \*\* Dovetail slots and ties are part of a two part system that are suitable for masonry veneer, stone, and other claddings. If used, verify that the second part - the tie or other attachment to the cladding is also specified. Delete the types not required. If more than one type for a particular application is required, be sure to indicate where each is to be used. Delete article if not required.

* 1. DOVETAIL SLOT ANCHORS AND TIES

\*\* NOTE TO SPECIFIER \*\* Dovetail slots are available only in mill galvanized and stainless steel. Stainless steel is available only in model No.100 in 26 gage. Select Standard, Large or Small type of dovetail slots and ties and delete the others.

* + 1. Standard Dovetail Slots and Ties:
			1. Dovetail Slots: No.100 Standard Dovetail Anchor Slot.
				1. Size: 1 inch (25 mm) wide by 1 inch (25 mm) deep by 5/8 inch (16 mm) throat by 10 feet (3048 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: 16 gage hot dip galvanized.
				2. Material: 16 gage stainless steel.
				3. Material: 22 gage in stainless steel.

\*\* NOTE TO SPECIFIER \*\* Select the ties required from the following paragraphs and delete the ones not required. Edit ties where options are offered.

* + - 1. For Use With Dovetail Slots: No.103; triangle wire; No 103-C Dovetail Triangular Veneer Anchor 12 gage (2.7 mm) clip attached to a 3/16 inch (4.7 mm) diameter wire.

\*\* NOTE TO SPECIFIER \*\* Delete length and steel type options not required.

* + - * 1. Length: 3 inch (76 mm).
				2. Length: 4 inch (102 mm).
				3. Length: 5 inch (127 mm).
				4. Length: 6 inch (152 mm).
				5. Length: 7 inch (178 mm).
				6. Length: 9 inch (228.6 mm).
				7. Steel Type: Type 304 stainless Steel.
				8. Steel Type: Hot dip galvanized.
			1. For Use With Dovetail Slots: No.106; Dovetail Corrugated Anchor.

\*\* NOTE TO SPECIFIER \*\* Delete material thickness options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.4 mm).
				2. Metal Thickness: 3/16 inch (4.8 mm).
				3. Width: 1 inch (25 mm).
				4. Length from face of Concrete: \_\_\_ inches (\_\_\_ mm).
				5. Steel Type: Type 304 stainless steel.
			1. For Use With Dovetail Slots: No.115: Dovetail Stone Anchor.

\*\* NOTE TO SPECIFIER \*\* Delete thickness options not required.

* + - * 1. Metal Thickness: 1/4 inch (6.4 mm).
				2. Metal Thickness: 3/16 inch (4.8 mm).
				3. Width: 1 inch (25 mm).
				4. Length from face of Concrete: \_\_\_ inches (\_\_\_ mm).
				5. Bend: \_\_\_ inches (\_\_\_ mm).
				6. Steel Type: Type 304 stainless steel.
			1. For Use With Dovetail Slots: No.117; Dovetail Split-Bend Stone Anchor.

\*\* NOTE TO SPECIFIER \*\* Delete thickness options not required.

* + - * 1. Thickness: 1/8 inch (3.1 mm).
				2. Thickness: 3/16 inch (4.7 mm).
				3. Thickness: 1/4 inch (6.4 mm).
				4. Width: 1 inch (25 mm).
				5. Length from face of Concrete: \_\_\_ inches (\_\_\_ mm).
				6. Split-Bend: \_\_\_ inches (\_\_\_ mm).
			1. For Use With Dovetail Slots: No.118; Dovetail Stone Pin Anchor

\*\* NOTE TO SPECIFIER \*\* Delete thickness options not required.

* + - * 1. Thickness: 1/8 inch (3.1 mm).
				2. Thickness: 3/16 inch (4.7 mm).
				3. Thickness: 1/4 inch (6.4 mm).
				4. Width: 1 inch (25 mm).
				5. Length from face of Concrete: \_\_\_ inches (\_\_\_ mm).
				6. Pin:

\*\* NOTE TO SPECIFIER \*\* Delete pin type and diameter options not required.

Pin Type: Welded.

Pin Type: Loose.

Pin Diameter: 1/4 inch (6.3 mm).

Pin Diameter: 3/8 inch (9.52 mm).

Pin Length: \_\_\_ inches (\_\_\_ mm).

Pin Steel Type: Type 304 stainless steel.

* + - 1. For Use With Dovetail Slots: No.121; Dovetail Rod Anchor with rod welded 1 inch (25 mm) onto a 12 gage (2.7 mm) dovetail clip 1 inch (25 mm) wide with end extending 1 inch (25 mm) beyond the face of dove tail slot.

\*\* NOTE TO SPECIFIER \*\* Delete rod diameter options not required.

* + - * 1. Rod Diameter: 1/4 inch (6.3 mm).
				2. Rod Diameter: 3/8 inch (9.52 mm).
				3. Rod Diameter: 1/2 inch (12.7 mm).
				4. Length: \_\_\_ inches (\_\_\_ mm).
				5. Steel Type: Type 304 stainless steel.
			1. Dovetail Flat Anchor No.109: 1 inch (25.4 mm) width by length from face of concrete.

\*\* NOTE TO SPECIFIER \*\* Delete metal thickness options not required. 3/16 inch is standard.

* + - * 1. Rod Diameter: 1/4 inch (6.3 mm).
				2. Metal Thickness: 3/16 inch (4.7 mm).
				3. Metal Thickness: 1/8 inch (3.1 mm).

\*\* NOTE TO SPECIFIER \*\* Select the stabilizing anchors types required and delete the types not required. If more than one type for a particular application is required, be sure to indicate where each is to be used. Delete article if not required.

* 1. MASONRY WALL STABILIZING ANCHORS (PTA ANCHORS)
		1. For use in anchoring top of wall to structure while allowing vertical deflection.

\*\* NOTE TO SPECIFIER \*\* Delete anchor type option not required.

* + - 1. Anchor Type: No.419; 3/16 inch plate with 3/8 inch (10 mm) diameter pin; plate anchored to structure overhead, pin sliding in plastic tube embedded in mortar at top of wall.
				1. Length of Pin: 6-3/4 inches (171 mm).
				2. Steel Type: Hot dip galvanized.
			2. Anchor Type: No.420; 12 gage (2.6 mm) channel cap; attached to structure overhead.
				1. Material Thickness: \_\_\_ inches (\_\_\_ mm).
				2. Length: : \_\_\_ inches (\_\_\_ mm).
				3. Width: : \_\_\_ inches (\_\_\_ mm).
				4. Bend Lengths: : \_\_\_ inches (\_\_\_ mm).

\*\* NOTE TO SPECIFIER \*\* Delete steel type option not required.

* + - * 1. Steel Type: Mill galvanized.
				2. Steel Type: Hot dip galvanized.

\*\* NOTE TO SPECIFIER \*\* Delete accessories not required.

* 1. ACCESSORIES
		1. Remedial Ties: No.391; Spiro Remedial Tie screw-in anchors.

\*\* NOTE TO SPECIFIER \*\* Delete length and diameter options not required.

* + - 1. Length: 6 inch (152 mm).
			2. Length: 8 inch (203 mm).
			3. Length: 10 inch (254 mm).
			4. Length: 12 inch (305 mm).
			5. Diameter: 0.315 inches (8 mm).
			6. Diameter: 0.394 inches (10 mm).
			7. Steel Type: Type 304 stainless steel.
		1. Ledge Angle, Shelf Angle, and Lintel Angles:
			1. Shelf Angle Wedge Inserts in Concrete:
				1. No.425; malleable iron wedge inserts, cast in place with reinforcing bar anchor.

\*\* NOTE TO SPECIFIER \*\* Delete size option not required.

Size: 425-6H Regular 3/4 inch (19 mm).

Size: 425-6LH Long 3/4 inch (19 mm).

* + - * 1. No. 427 askew head bolts. Diameter: 3/4 (19 mm) inch diameter.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 2 inch (51 mm).

Length: 2-1/2 inch (64 mm).

Length: 3 inch (76 mm).

Length: 4 inch (101 mm).

* + 1. Compressible No. 352 Rubber Control Joint flexible rubber seals fitting in sash block reveals.

\*\* NOTE TO SPECIFIER \*\* Delete profile options not required.

* + - 1. Profile: 352-14. 2-5/8 inch (67 mm) T-type.
			2. Profile: 352-11. 2-5/8 inch (67 mm).
			3. Profile: 352-12. 6-7/8 inch (175 mm).
			4. Profile: 352-13. 11-1/8 inch (283 mm).
			5. Length. 48 inches (1219 mm).
		1. Control Joint Anchors: Tie masonry together while allowing movement.
			1. Type: No.353 Control Joint Anchor. 22 gauge x 10 inches (254 mm) long.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Type 304 stainless steel.
			2. Material: Plastic.
			3. Material: Mill Galvanized.
			4. Material: Hot dip Galvanized.
		1. No. 84 Weep-Thru Mortar Deflector: Polyethylene to catch mortar droppings allowing moisture in cavity to drain. 5 foot (1524 mm) lengths.

\*\* NOTE TO SPECIFIER \*\* Delete profile options not required.

* + - 1. Profile: 84-5: 1/2 inch (13 mm).
			2. Profile: 84-1: 1 inch (25 mm).
			3. Profile: 84-2: 2 inch (51 mm).
		1. Weep Holes:

\*\* NOTE TO SPECIFIER \*\* Delete model option not required.

* + - 1. Model No. 330. Clear plastic tube, 1/4 inch (6 mm) inside diameter, 4 inches (100 mm) long.
			2. Model No. 85. Rectangular polypropylene vertical joint vent.
				1. Cell vents Regular 3/8 x 2-1/2 x 3-3/8 inches (10 x 64 x 86 mm).
1. EXECUTION
	1. PREPARATION
		1. Clean materials thoroughly prior to installation.
		2. Prepare using the methods recommended by the substrate manufacturer for achieving the best results for the substrate under the project conditions.
	2. INSTALLATION
		1. Install in masonry anchors and accessories in accordance with the requirements of the manufacturer's printed instructions and TMS 402/602.
		2. Anchors in Brick Veneer require minimum 1-1/2 inches (38 mm) embedment in brick mortar or a minimum of one half of the thickness of a block wall with at least 5/8 inches (16 mm) mortar cover to the outside face.
		3. Concrete unit masonry installation is specified in Section 04 27 23 - Cavity Wall Unit Masonry.
		4. Brick masonry installation is specified in Section 04 27 23 - Cavity Wall Unit Masonry.
		5. Stone masonry installation is specified in Section 04 41 00 - Dry-Placed StoneIMPORT "http://www.arcat.com/gfx/csi\_revision\_21b.gif" \* MERGEFORMAT INCLUDEPICTURE "http://www.arcat.com/gfx/csi\_revision\_21b.gif" \* MERGEFORMAT .
	3. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.
	4. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate section in Division 01.

END OF SECTION