SECTION 05 58 00

FORMED METAL BRACKETS

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Steel Design Solutions; formed metal brackets.
This section is based on the products of Steel Design Solutions, which is located at:
4613 N. University Dr. Suite 224
Coral Springs, FL 33067
Toll Free Tel: 800-459-1892
Email: [request info (info@steeldesignsolutions.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Steel+Design+Solutions&coid=50689&rep=&fax=&message=RE:%20Spec%20Question%20(05580sds):%20%20&mf=)
Web: <http://steeldesignsolutions.com>
 [ [Click Here](https://www.arcat.com/arcatcos/cos50/arc50689.html) ] for additional information.
At Steel Design Solutions, we have always been dedicated to developing the most innovative hardware for countertops. With style and safety as top priorities, we are dedicated to creating products that make your countertop work for you. We understand that our customers are looking for reliable, easy-to-install brackets that get the job done. That's exactly what we offer.
All of our products are proudly made in the USA, from conception to manufacturing and packaging. Operating out of sunny South Florida, we are a privately held company dedicated to supplying professionals and DIYers with hardware that provides unparalleled support for countertops and shelves at an affordable price.

1. GENERAL
	1. SECTION INCLUDES

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

* + 1. Formed Metal Brackets of the following types:
			1. Steel angle brackets. (Floating Surface Adjustable Bracket, Victory Bracket, Triton HD Bracket, Townley Shelf Bracket)
			2. Steel hidden brackets. (Standard Hidden Bracket)
			3. Stainless steel brackets. (Delta HD Bracket)
	1. RELATED SECTIONS

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

* + 1. Section 05 50 00 - Metal Fabrications.
		2. Section 06 20 00 - Finish Carpentry.
		3. Section 06 40 00 - Architectural Woodwork.
		4. Section 12 36 00 - Countertops.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data:
			1. Manufacturer's data sheets on each product to be used.
			2. Preparation instructions and recommendations.
			3. Storage and handling requirements and recommendations.
			4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern and color.
		2. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
		2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Retain mock-up during construction as a standard for comparison with completed work.
			4. Do not alter or remove mock-up until work is completed or removal is authorized.
	1. PRE-INSTALLATION CONFERENCE
		1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
		2. Protect from damage due to weather, excessive temperature, and construction operations.
	3. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
	4. WARRANTY
		1. Manufacturer's Warranty: Provide manufacturer's standard limited warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Steel Design Solutions, which is located at: 4613 N. University Dr. Suite 224; Coral Springs, FL 33067; Toll Free Tel: 800-459-1892; Email: [request info (info@steeldesignsolutions.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Steel+Design+Solutions&coid=50689&rep=&fax=&message=RE:%20Spec%20Question%20(05580sds):%20%20&mf=); Web: <http://steeldesignsolutions.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. PERFORMANCE REQUIREMENTS
		1. Made in USA.

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

* 1. STEEL ANGLE BRACKETS

\*\* NOTE TO SPECIFIER \*\* The Floating Surface Adjustable Bracket is engineered to be the most reliable floating countertop support bracket in the marketplace. The bracket's patented adjustability creates upward force on the countertop for maximum support, while also eliminating the need for shims to level. Delete if not required.

* + 1. Basis of Design: Floating Surface Adjustable Bracket; as manufactured by Steel Design Solutions.
			1. Material: Structural steel.
			2. Design: Flat legs.
			3. Thickness: 3/16 inch (5 mm).
			4. Height: 12 inches (305 mm).
			5. Width: 2 inches (51 mm).
			6. Edges: Rounded for safety.
			7. Adjustable: Eliminates need for shims.

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

* + - 1. Model FSAB08, Length: 8 inches (203 mm).
			2. Model FSAB10, Length: 10 inches (254 mm).
			3. Model FSAB12, Length: 12 inches (305 mm).
			4. Model FSAB14, Length: 14 inches (356 mm).
			5. Model FSAB16, Length: 16 inches (406 mm).

\*\* NOTE TO SPECIFIER \*\* Powder coated, black finish is standard. Custom finishes and colors are available but minimum quantities are required. Contact manufacturer for more detailed information. Delete finish options not required.

* + - 1. Finish: Powder coated, black color.
			2. Finish: Powder coated, color as indicated on Drawings.
			3. Finish: Powder coated, custom color.
			4. Finish: \_\_\_\_\_\_.
			5. Included Hardware:
				1. Wood Screws: 2.
				2. Set Screws: 2.
				3. Allen Wrench: 1.

\*\* NOTE TO SPECIFIER \*\* The Victory Bracket is a multi-functional L-bracket designed to provide superior support for countertops, bars, floating vanities, and more. This bracket allows for multiple mounting options both inside or outside the cabinet/structural wall. The low-profile Victory Bracket's unique ribbed design provides strength that exceeds that of bulkier, more expensive brackets. Delete if not required.

* + 1. Basis of Design: Victory Bracket; as manufactured by Steel Design Solutions.
			1. Material: Structural steel.
			2. Design: Ribbed horizontal leg.
			3. Thickness: 1/4 inch (6. mm).
			4. Total Height of Horizontal Leg: 0.525 inches (13.33 mm).
			5. Height: 8 inches (203 mm).
			6. Width: 2 inches (51 mm).

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

* + - 1. Model VB08, Length: 8 inches (203 mm).
			2. Model VB10, Length: 10 inches (254 mm).
			3. Model VB12, Length: 12 inches (305 mm).
			4. Model VB14, Length: 14 inches (356 mm).
			5. Model VB16, Length: 16 inches (406 mm).

\*\* NOTE TO SPECIFIER \*\* Powder coated, black finish is standard. Custom finishes and colors are available but minimum quantities are required. Contact manufacturer for more detailed information. Delete finish options not required.

* + - 1. Finish: Powder coated, black color.
			2. Finish: Powder coated, color as indicated on Drawings.
			3. Finish: Powder coated, custom color.
			4. Finish: \_\_\_\_\_\_.
			5. Required Hardware: 4 Wood Screws.

\*\* NOTE TO SPECIFIER \*\* The Triton Heavy-Duty (HD) Bracket is designed specifically for the heaviest of applications. Made from structural steel with strengthening gussets, this multi-functional bracket can be used to support large countertops, floating tables, and even benches. Delete if not required.

* + 1. Basis of Design: Triton HD Bracket; as manufactured by Steel Design Solutions.
			1. Material: Structural steel.
			2. Design: Gusseted legs.
			3. Thickness: 3/16 inch (5 mm).
			4. Width: 2 inches (51 mm).
			5. Load: Up to 495 pounds (225 kg).

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

* + - 1. Model TB08, Leg Length: 8 inches (203 mm).
			2. Model TB10, Leg Length: 10 inches (254 mm).
			3. Model TB12, Leg Length: 12 inches (305 mm).
			4. Model TB14, Leg Length: 14 inches (356 mm).
			5. Model TB16, Leg Length: 16 inches (406 mm).
			6. Model TB18, Leg Length: 18 inches (457 mm).
			7. Model TB20, Leg Length: 20 inches (508 mm).
			8. Model TB22, Leg Length: 22 inches (559 mm).

\*\* NOTE TO SPECIFIER \*\* Powder coated, black finish is standard. Custom finishes and colors are available but minimum quantities are required. Contact manufacturer for more detailed information. Delete finish options not required.

* + - 1. Finish: Powder coated, black color.
			2. Finish: Powder coated, color as indicated on Drawings.
			3. Finish: Powder coated, custom color.
			4. Finish: \_\_\_\_\_\_.
			5. Required Hardware: 6 Wood Screws.

\*\* NOTE TO SPECIFIER \*\* Create beautiful open shelving with our Townley Shelf Bracket. Delete if not required.

* + 1. Basis of Design: Townley Shelf Bracket; as manufactured by Steel Design Solutions.
			1. Material: Structural steel.
			2. Design: Ribbed horizontal leg.
			3. Thickness: 3/16 inch (5 mm).
			4. Height: 3 inches (76 mm).
			5. Width: 2 inches (51 mm).

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

* + - 1. Model TSB08, Length: 8 inches (203 mm).
			2. Model TSB10, Length: 10 inches (254 mm).
			3. Model TSB12, Length: 12 inches (305 mm).

\*\* NOTE TO SPECIFIER \*\* Powder coated, black finish is standard. Custom finishes and colors are available but minimum quantities are required. Contact manufacturer for more detailed information. Delete finish options not required.

* + - 1. Finish: Powder coated, black color.
			2. Finish: Powder coated, color as indicated on Drawings.
			3. Finish: Powder coated, custom color.
			4. Finish: \_\_\_\_\_\_.
			5. Required Hardware: 4 Wood Screws.

\*\* NOTE TO SPECIFIER \*\* The Standard Hidden Bracket from Steel Design Solutions is an affordable, American-made flat bar countertop support bracket. Ideal for creating a floating countertop with knee walls or pony walls. Delete Article if not required.

* 1. STEEL HIDDEN BRACKETS
		1. Basis of Design: Standard Hidden Bracket; as manufactured by Steel Design Solutions.
			1. Material: Structural steel.
			2. Design: Flat bracket.
			3. Thickness: 3/8 inch (9.5 mm).
			4. Width: 2 inches (51 mm).
			5. Edges: Rounded for safety.
			6. Mounting: 5 mounting points for secure installation.

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

* + - 1. Model SHB08, Length: 8 inches (203 mm).
			2. Model SHB10, Length: 10 inches (254 mm).
			3. Model SHB12, Length: 12 inches (305 mm).
			4. Model SHB14, Length: 14 inches (356 mm).
			5. Model SHB16, Length: 16 inches (406 mm).
			6. Model SHB18, Length: 18 inches (457 mm).
			7. Model SHB20, Length: 20 inches (508 mm).
			8. Model SHB22, Length: 22 inches (559 mm).
			9. Model SHB24, Length: 24 inches (610 mm).

\*\* NOTE TO SPECIFIER \*\* Powder coated, black finish is standard. Custom finishes and colors are available but minimum quantities are required. Contact manufacturer for more detailed information. Delete finish options not required.

* + - 1. Finish: Powder coated, black color.
			2. Finish: Powder coated, color as indicated on Drawings.
			3. Finish: Powder coated, custom color.
			4. Finish: \_\_\_\_\_\_.
			5. Required Hardware: 5 wood screws, No. 12.
	1. STAINLESS STEEL BRACKETS

\*\* NOTE TO SPECIFIER \*\* The Delta Heavy-Duty (HD) Bracket is the ideal combination of performance and design. This bracket is the perfect choice for your large-scale application needs. Made from stainless steel with a signature curved gusset, you won't have to sacrifice style to get the job done. Delete Article if not required.

* + 1. Basis of Design: Delta HD Bracket; as manufactured by Steel Design Solutions.
			1. Material: Stainless steel.
			2. Design: Curved gusset.
			3. Thickness: 1/4 inch (6 mm).
			4. Width: 2 inches (51 mm).
			5. Load: Up to 700 pounds (318 kg).

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

* + - 1. Model DB08, Leg Length: 8 inches (203 mm).
			2. Model DB10, Leg Length: 10 inches (254 mm).
			3. Model DB12, Leg Length: 12 inches (305 mm).
			4. Model DB14, Leg Length: 14 inches (356 mm).
			5. Model DB16, Leg Length: 16 inches (406 mm).
			6. Model DB18, Leg Length: 18 inches (457 mm).
			7. Model DB20, Leg Length: 20 inches (508 mm).
			8. Model DB22, Leg Length: 22 inches (559 mm).
			9. Required Hardware: 3 wood screws.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly constructed and prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
	4. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.
	5. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturer's recommendations.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION