SECTION 23 37 13

DIFFUSERS, REGISTERS AND GRILLES

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 \*\* SteelCrest Corporation; diffusers, registers, and grilles.
This section is based on the products of SteelCrest Corporation, which is located at:4141 E. Raymond St., Suite EPhoenix, AZ 85040Toll Free Tel: 866-816-9005Tel: 602-437-2900Fax: 602-437-3335Email: [request info (info@steelcrestonline.com)](https://arcat.com/rfi?action=email&company=SteelCrest%252BCorporation&message=RE%253A%2520Spec%2520Question%2520(15855ste)%253A%2520&coid=51988&spec=15855ste&rep=&fax=602-437-3335)
Web: <https://www.steelcrestonline.com>
 [ [Click Here](https://arcat.com/company/steelcrest-corporation-51988) ] for additional information.
In designing extraordinary environments, it's the details that make the difference. The fine points that produce the feeling of superior quality, comfort and sophistication. If you can imagine it, SteelCrest can manufacture it. From decorative registers and grilles, to door and window inserts, to access and architectural panels, SteelCrest has the capability and passion to bring it into being.
At SteelCrest, we share your taste for excellence. All of our products are designed to exacting standards of form, function, style and strength. Enhance home and work settings with exceptional accents. Every single aspect of the space you're designing deserves only the finest in materials and craftsmanship. Because we stand by every piece we produce, SteelCrest's quality will stay with you for life. And that's what we call the good life.

1. GENERAL
	1. SECTION INCLUDES

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

* + 1. Diffusers, Registers, and Grilles and Accessories of the Following Series:
			1. Platinum Series.
			2. Gold Series.
			3. Silver Series.
			4. Bronze Series.
			5. Pro-Linear Series.
			6. Artisan Iron Series.
	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 05 70 00 - Decorative Metal.
		3. Division 15.
	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 selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
		2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
		3. 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. Delete if not required.

* + 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. SEQUENCING
		1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
	5. WARRANTY
		1. Manufacturer's Warranty: Provide manufacturer's standard limited warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: SteelCrest Corporation, which is located at:4141 E. Raymond St., Suite EPhoenix, AZ 85040Toll Free Tel: 866-816-9005Tel: 602-437-2900Fax: 602-437-3335Email: [request info (info@steelcrestonline.com)](https://arcat.com/rfi?action=email&company=SteelCrest%252BCorporation&message=RE%253A%2520Spec%2520Question%2520(15855ste)%253A%2520&coid=51988&spec=15855ste&rep=&fax=602-437-3335);Web: <https://www.steelcrestonline.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. DIFFUSERS, REGISTERS AND GRILLES

\*\* NOTE TO SPECIFIER \*\* Truly custom pieces that are almost unlimited in design, material, and finish. Some projects can be almost impossible to finish without a source for custom design features, look no further than SteelCrest. We have a team of highly experienced and very creative experts that can help you turn your dreams into reality. Delete if not required.

* + 1. Basis of Design: Platinum Series; as manufactured by SteelCrest.
			1. Made in USA.

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

* + - 1. Material: 1/8 inch (3.2 mm) steel.
			2. Material: 1/8 inch (3.2 mm) stainless steel.
			3. Material: 1/8 inch (3.2 mm) aluminum.
			4. Material: As indicated on Drawings.
			5. Material: \_\_\_\_\_.

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

* + - 1. Finish: Powder-coated.
			2. Finish: Brushed, stainless steel.
			3. Finish: As indicated on Drawings.
			4. Finish: \_\_\_\_\_.

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

* + - 1. Configuration: Air supply register with OBD damper.
				1. One-piece construction for simple installation.
			2. Configuration: Air supply register with air deflector.
				1. One-piece construction for simple installation.
				2. Air deflector provides air flow direction.
			3. Configuration: High-velocity air supply, square face.
				1. Solid construction with simple installation.
			4. Configuration: High-velocity air supply, round face.
				1. Solid construction with simple installation.
			5. Configuration: Return air filter frame (RAFF).
				1. Filter with black-out foam included.
				2. Post knobs finished to match.
				3. Concealed hinge.
				4. Removable door for easy installation.
				5. Solid construction with simple installation.
			6. Configuration: Air return grille.
			7. Configuration: Air return grille with concealment louver.
				1. Black concealment louver hides air duct.
			8. Configuration: T-bar lay-in grille.
			9. Configuration: Baseboard register.
			10. Configuration: As indicated on Drawings.
			11. Configuration: \_\_\_\_\_.

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

* + - 1. Size: \_\_\_\_\_\_.
			2. Size: As indicated on Drawings.
			3. Attachment: Beveled screw holes and color matched screws.

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

* + - 1. Pattern: \_\_\_\_\_.
			2. Pattern: As selected by Architect from Manufacturer's full range.
			3. Pattern: As indicated on Drawings.
			4. Pattern: Custom, as indicated on Drawings.
			5. Pattern: Custom, to be selected by Architect.

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

* + - 1. Color: Bronze.
			2. Color: Antique Bronze.
			3. Color: BR23.
			4. Color: WH120.
			5. Color: Weathered Brown.
			6. Color: Silverado.
			7. Color: Rust/BR47.
			8. Color: Oil-Rubbed Bronze.
			9. Color: Dark Roast.
			10. Color: Copper Clad.
			11. Color: Copper Texture.
			12. Color: GR06.
			13. Color: BK59.
			14. Color: BG38.
			15. Color: Almond Texture.
			16. Color: As selected by Architect from Manufacturer's full range.
			17. Color: As indicated on Drawings.
			18. Color: Custom, \_\_\_\_\_.
			19. Color: Custom, as selected by Architect.
			20. Color: Custom, as indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* The Gold Series caters to all tastes, with an unmatched selection of designs, finishes, and custom features your sure to find the perfect compliment to any home. Design flexibility is the key to making a house a home and with many custom upgrades at no additional charge you will always find just what you need in our Gold Series. Delete if not required.

* + 1. Basis of Design: Gold Series; as manufactured by SteelCrest.
			1. Made in USA.

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

* + - 1. Material: 1/8 inch (3.2 mm) steel.
			2. Material: 1/8 inch (3.2 mm) stainless steel.
			3. Material: As indicated on Drawings.

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

* + - 1. Finish: Powder-coated.
			2. Finish: Brushed, stainless steel.
			3. Finish: As indicated on Drawings.
			4. Finish: \_\_\_\_\_.

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

* + - 1. Configuration: Air supply register with OBD damper.
				1. One-piece construction for simple installation.
			2. Configuration: Air supply register with air deflector.
				1. One-piece construction for simple installation.
				2. Air deflector provides air flow direction.
			3. Configuration: High-velocity air supply, square face.
				1. Solid construction with simple installation.
			4. Configuration: High-velocity air supply, round face.
				1. Solid construction with simple installation.
			5. Configuration: Return air filter frame (RAFF).
				1. Filter with black-out foam included.
				2. Post knobs finished to match.
				3. Concealed hinge.
				4. Removable door for easy installation.
				5. Solid construction with simple installation.
			6. Configuration: Air return grille.
			7. Configuration: Air return grille with concealment louver.
				1. Black concealment louver hides air duct.
			8. Configuration: T-bar lay-in grille.
			9. Configuration: Baseboard register.
			10. Configuration: As indicated on Drawings.
			11. Configuration: \_\_\_\_\_.

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

* + - 1. Size: \_\_\_\_\_\_.
			2. Size: As indicated on Drawings.
			3. Attachment: Color matched screws.

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

* + - 1. Pattern: \_\_\_\_\_.
			2. Pattern: As selected by Architect from Manufacturer's full range.
			3. Pattern: As indicated on Drawings.

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

* + - 1. Color: Bronze.
			2. Color: Antique Bronze.
			3. Color: BR23.
			4. Color: WH120.
			5. Color: Weathered Brown.
			6. Color: Silverado.
			7. Color: Rust/BR47.
			8. Color: Oil-Rubbed Bronze.
			9. Color: Dark Roast.
			10. Color: Copper Clad.
			11. Color: Copper Texture.
			12. Color: GR06.
			13. Color: BK59.
			14. Color: BG38.
			15. Color: Almond Texture.
			16. Color: As selected by Architect from Manufacturer's full range.
			17. Color: As indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Looking for our most popular series? The Silver Series has six designs from contemporary to traditional and the option to choose from one of five finishes to match your decor, including the much-requested oil-rubbed bronze finish. Delete if not required.

* + 1. Basis of Design: Silver Series; as manufactured by SteelCrest.
			1. Made in USA.

\*\* NOTE TO SPECIFIER \*\* 1/8 inch is standard for supply grilles. 0.05 inch is standard for return grilles. Delete material not required.

* + - 1. Material: 0.05 inch (1.3 mm) galvanized steel.
			2. Material: 1/8 inch (3.2 mm) steel.
			3. Finish: Powder-coated.

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

* + - 1. Configuration: Air supply register.
			2. Configuration: Air return grille.
			3. Configuration: Exhaust fan grille.
			4. Configuration: Return air filter frame (RAFF).
			5. Configuration: As indicated on Drawings.
			6. Configuration: \_\_\_\_\_.

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

* + - 1. Size: \_\_\_\_\_\_.
			2. Size: As indicated on Drawings.
			3. Attachment: Color matched screws.

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

* + - 1. Pattern: Pro vertical.
			2. Pattern: Pro linear.
			3. Pattern: Vogue.
			4. Pattern: Renaissance.
			5. Pattern: Corinthian.
			6. Pattern: Tuscan.
			7. Pattern: Traditional.
			8. Pattern: Square.
			9. Pattern: As selected by Architect from Manufacturer's full range.
			10. Pattern: As indicated on Drawings.

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

* + - 1. Color: Brown.
			2. Color: White.
			3. Color: Black.
			4. Color: Silver.
			5. Color: As selected by Architect.
			6. Color: As indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* These decorative registers and grilles are easy to install and ready when you need them. They also typically cost 40% less than most custom registers on the market. Delete if not required.

* + 1. Basis of Design: Bronze Series; as manufactured by SteelCrest.
			1. Made in USA.
			2. Material: 0.05 inch (1.3 mm) galvanized steel.
			3. Finish: Powder-coated.

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

* + - 1. Configuration: Air supply register.
			2. Configuration: Air return grille.
			3. Configuration: Exhaust fan grille.
			4. Configuration: Return air filter frame (RAFF).
			5. Configuration: As indicated on Drawings.
			6. Configuration: \_\_\_\_\_.

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

* + - 1. Size: \_\_\_\_\_\_.
			2. Size: As indicated on Drawings.
			3. Attachment: Color matched screws.

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

* + - 1. Pattern: Slotted.
			2. Pattern: Tuscan.
			3. Pattern: Square.
			4. Pattern: As selected by Architect from Manufacturer's full range.
			5. Pattern: As indicated on Drawings.

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

* + - 1. Color: Oil-Rubbed Bronze.
			2. Color: White.
			3. Color: Black.
			4. Color: Silver.
			5. Color: As selected by Architect.
			6. Color: As indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* These decorative registers and grilles are easy to install and ready when you need them. They also typically cost 40% less than most custom registers on the market. Delete if not required.

* + 1. Basis of Design: Pro-Linear Series; as manufactured by SteelCrest.
			1. Made in USA.

\*\* NOTE TO SPECIFIER \*\* Steel is standard material 0.05 inch for returns, 1/8 inch for supplies, stainless steel is available for additional cost. Delete material not required.

* + - 1. Material: 0.05 inch (1.3 mm) steel.
				1. Finish: Powder-coated.
			2. Material: 1/8 inch (3.2 mm) steel.
				1. Finish: Powder-coated.
			3. Material: 1/8 inch (3.2 mm) stainless steel.
				1. Finish: Brushed stainless steel

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

* + - 1. Configuration: Air supply register.
			2. Configuration: Air return grille.
			3. Configuration: Exhaust fan grille.
			4. Configuration: Return air filter frame (RAFF).
			5. Configuration: As indicated on Drawings.
			6. Configuration: \_\_\_\_\_.

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

* + - 1. Size: \_\_\_\_\_\_.
			2. Size: As indicated on Drawings.
			3. Attachment: Color matched screws.

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

* + - 1. Pattern: Pro-Linear.
			2. Pattern: Pro-Vertical.
			3. Pattern: As selected by Architect from Manufacturer's full range.
			4. Pattern: As indicated on Drawings.

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

* + - 1. Color: Brown.
			2. Color: White.
			3. Color: Black.
			4. Color: Silver.
			5. Color: As selected by Architect.
			6. Color: As indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Artisan Iron is an enhancement to any line of SteelCrest registers and grilles. Delete if not required.

* + 1. Basis of Design: Artisan Iron Series; as manufactured by SteelCrest.
			1. Made in USA.
			2. Material: 3/8 inch (9.5 mm) wrought iron.

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

* + - 1. Configuration: Air supply register.
			2. Configuration: Air return grille.
			3. Configuration: Exhaust fan grille.
			4. Configuration: Return air filter frame (RAFF).
			5. Configuration: As indicated on Drawings.

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

* + - 1. Size: \_\_\_\_\_\_.
			2. Size: As indicated on Drawings.
			3. Attachment: Color matched screws.

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

* + - 1. Border Pattern: \_\_\_\_\_.
			2. Border Pattern: As selected by Architect from Manufacturer's full range.
			3. Border Pattern: As indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Available on all SteelCrest product lines, and priced separately, these enhancements will add that extra detail of functional beauty. All Accessories are designed to work with your HVAC system to maximize visual appeal without effecting the overall performance of your heating and cooling system. Delete if not required.

* 1. ACCESSORIES

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

* + 1. Concealment Louvers: Helps conceal ductwork behind the grille's face.
		2. Air Deflectors: Moves air in the desired direction.

\*\* NOTE TO SPECIFIER \*\* Delete blow patterns not required.

* + - 1. Blow Pattern: 1 way.
			2. Blow Pattern: 2 way.
			3. Blow Pattern: 3 way.
			4. Blow Pattern: 4 way.
		1. Beveled Edge: Softens appearance of grilles.
		2. Mesh Backer: Bug screen mesh.
		3. Speaker Cloth: For use with speaker covers:

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

* + - 1. Color: Black.
			2. Color: White.
		1. Solid Backer: Blocks airflow and noise, mounted on the 3/4 inch (19 mm) frame.
			1. Color: Black.
		2. OBD Dampers: Operated with a flat-blade screw driver and recessed behind the face of the register.
		3. Flush Mount Cans: Allows for mounting registers and grilles flush with gypsum board surface.
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. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturers recommendations.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION