

Ti-Rose Gold #8 Non-Directional

Product Description:

Ti-Rose Gold #8 Non-Directional is a high gloss, mirror finish stainless steel that is, as the name implies, non-directional. It is designed for architectural applications; however, artists and others find many creative uses for this product. Because of its uniform consistency, #8 Non-Directional is excellent for panel-to-panel matching. It is highly reflective making it suitable for mirrors, wall panels, coping and trim.



Selecting the Grade

Ti-Rose Gold #8 Non-Directional is widely obtainable in Type 304, which is sufficient to prevent corrosion. Type 316 should be used near the seacoast. Low carbon versions of these grades (304L / 316L) should be used when parts are to be welded. See Table I for highlights of chemical analyses and properties. For extreme locations, e.g. near chemical plants or where steel may come into contact with salt water spray, different alloys will be required, subject to application review. However, it may be manufactured in other grades to specific requirements. For highlights of Type 304's chemistry and common properties, see Table I.

Available Sizes

See Table II. Coil widths. Inquire for length.

Patterns

Standard Diamond Quilt: 2.75" side-to-side & 3.75" point-to-point

Specialty patterns available upon request

Fire Resistance

Should a fire occur, Ti-Rose Gold #8 Non-Directional provides additional protection as stainless steel has a melting point of 2750° F.

Flatness

Ti-Rose Gold #8 Non-Directional is supplied to the standard commercial allowances of ASTM (American Society for the Testing of Materials).

Fabrication

To avoid affecting the highly reflective mirror surface, joinery should be mechanical. If welding or soldering must be employed, strive to limit it to hidden areas. Heat tint scales and soldering flux residue must be thoroughly removed. Ti-Rose Gold #8 Non-Directional is slightly directional. Therefore, it is advisable to orient panels in the same direction.

Flatness

Quilted stainless steel sheet is produced using base material that meets standard commercial tolerances per ASTM (American Society for Testing and Materials) specifications. Due to the nature of the embossing process, quilted sheets may exhibit cupping or curvature and are not guaranteed to lay flat after quilting. This is a normal characteristic of the product and should be considered during design and installation.

Installation

Ti-Rose Gold #8 Non-Directional comes with a protective PVC covering that is high grade UV resistant and is designed to withstand the elements for several weeks. Yet it is recommended that this PVC covering be removed immediately after installation to prevent adhesive residue from adhering to the stainless steel finish. Ti-Rose Gold #8 Non-Directional's appearance is very uniform, but any metal surface, including a painted one, is sensitive to misalignment of panels on differing planes. Please take extra care to install within reasonable tolerances to ensure full benefit of Ti-Rose Gold #8 Non-Directional's unvarying appearance. After installation, any rust stains from tools or construction debris must be removed.



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STAINLESS STEEL DATA SHEET

Maintenance

Ti-Rose Gold #8 Non-Directional is designed to be essentially maintenance free. It will last for decades without requiring attention. Yet it may be appropriate at times to clean the surface in order to maintain its original appearance. Specific stainless steel agents are widely available. For general cleaning, any detergent or ammonia solution is effective. More difficult contaminants, like adhesive residue, will come off with pure acetone. Always avoid products containing chloride. Regularly clean out areas where occasional debris may collect, such as gutters.

Table I		304/304L	316/316L
CHEMICAL ANALYSIS			
Nickel		8%	10%
Chromium		18%	16%
Molybdenum			2%
TYPICAL MECHANICAL PROPERTIES			
Yield Strength (psi)		50,000	50,000
Tensile Strength (psi)		96,000	92,000
Elongation in 2 inches		50%	48%
Hardness (Rockwell B)		85	84
PHYSICAL PROPERTIES			
Density (lb./cu. in.)		0.292	0.292
Modulus of Elasticity in Tension (X 10 ⁶ lb./sq.in.)		28.0	28.0
Mean Coefficient of Thermal Expansion per °F (x 10 ⁻⁶)	32 - 212°F	9.6	8.9
	32 - 600°F	9.9	9.0
	32 - 1000°F	10.2	9.7
Melting Point Range °F		2550 - 2650	2500 - 2550

Table II	Size Range (inches)				
	WIDTH				
THICKNESS	.75 - 18	>18 <24	24 - 36	>36 - 49	>49 - 60
.1251 - .500	•	•	•	•	•
.075 - .1250	•	•	•	•	•
.0291 - .075	•	•	•	•	•
.0178 - .029	•	•	•	•	•
.015 - .0177					

Limited Warranty

Mirror Metals (MM) warrants its ASTM Grades 304, 304L, 316, 316L products against corrosion for a period of thirty (30) years from the date of purchase, subject to the limitations described in this warranty and provided the material is utilized solely for architectural applications and in normal atmospheric conditions. For purposes of this warranty, corrosion is defined as through wall penetration of the stainless steel. No warranty is made regarding mechanical damage, physical damage, or damage as a result of substandard workmanship after receipt of the product from MM (including but not limited to welding, shaping, or forming using methods that are not best practices for stainless steel of the grade in question) or using inappropriate cleaning solutions.

This warranty does not cover any product that has been subject to misuses, neglect or accident. Use in chemical or manufacturing facilities, which produce or use chemicals known to have a deleterious effect on stainless steel, is excluded from this warranty.

Please contact MM prior to purchase if there is any question regarding application.

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