

Wilsonart® Decorative Metals (Types 414, 415, 416, 418 and 419) Technical Data

1. Distributor and/or manufacturer

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2. Product Description

Recommended Uses: Wilsonart Decorative Metals are designed for vertical interior or ceiling applications where a special accent is required or a special mood is desired. The surface of Decorative Metals is that of fine finished metal. The genuine metal material is appropriate for **vertical areas** in retail facilities, hotel and office lobbies, theaters and restaurants, where its special eye-catching properties add a definite prestigious appeal. Decorative Metals add a visual sense of lightness when used as inserted accent banding in massive casework. These materials also can add a bright touch when used as cladding or accent trim in custom furniture, especially in combination with high gloss solid color laminates, Wilsonart® Decorative Edges or Wilsonart® Solid Surfacing.

Product Composition:

- Type 414: Galvalume® Steel. A 26-gauge steel sheet featuring a Galvalume® finish. The steel is coated with an aluminum-zinc alloy, and then protected with a clear acrylic, coating both sides. The metal features a decorative faceted finish on both sides – usable 2 sides (protective film applied one side only). **Pattern variation can occur within sheet and from sheet to sheet. Steel fabrication tools, saw blades and router bits are required.**
- Type 415: Metro Collection. A solid sheet of aluminum is produced with a decorative, anodized finish and color on one side in an overall matte finish. Slight tone and color variations, created with alloy combinations, are deliberate yet show overall balance on each sheet. **Pattern variation can occur within the sheet and from sheet to sheet.**
- Type 416: Artisan Group non-anodized aluminum alloy panels feature textured designs in several patterns applied from border to border, creating a dimensional appearance. Panels are coated with a clear resin to prevent oxidation and protect the beauty of the design.
- Type 418: Decorative aluminum (Types 415, Type 416 & Type 419) bonded to a phenolic backer for fabrication following HPDL techniques for **flat surfaces only. Do NOT use as an edge trim or for strips.** When radius bending is required, Type 415 or 419 is recommended.
- Type 419: A solid sheet of aluminum is produced with a decorative, anodized finish and color on one side. The back side is prepared to facilitate bonding to a suitable substrate. (Keep this surface free of grease, oil or other contaminants.) *Many designs are produced using a recycled content.

Basic Limitations: Decorative metals are designed for interior vertical applications. Reflective value and metal color may vary depending on type of lighting used. Fluorescent, incandescent and daylight produce slight color variations. The American Architectural Manufacturer's Association (AAMA) has issued the "Voluntary Specification for Anodized Architectural Aluminum" AAMA611-98. The maximum allowable color variation is established as Delta E CMC 5.0 or less for anodized aluminum produced from one coil.

Pattern, Size & Finish Availability:
www.WilsonartContract.com/FastPattern

Note: All decorative metals are supplied with a protective peel coat to prevent surface damage.

- **Product Type 414, Galvalume® Steel**

Pattern	Name	Surface Finish	Thickness	Stock Sizes
S6501	Crystal Steel	Acrylic	0.019"	4x8' & 4x10'

- **Product Type 415, Metro Collection**

Pattern	Name	Surface Finish	Thickness	Stock Sizes
6100	Matte Pewter	Anodized	.025"	4x8' & 4x10'
6101	Matte Grey Bronze	Anodized *	.025"	4x8' & 4x10'
6102	Matte Gunmetal Grey	Anodized	.025"	4x8' & 4x10'

- **Product Type 416, Artisan Group**

Pattern	Name	Surface Finish	Thickness	Stock Sizes
6301	Florentine	Lacquered	0.025"	4x8' & 4x10'
6309	Random Swirl	Lacquered	0.025"	4x8' & 4x10'
6311	Silver Stria	Epoxy	0.025"	4x8'
6312	Mercury Stria	Epoxy	0.025"	4x8'
6313	Bronze Stria	Epoxy	0.025"	4x8'
6314	Bronze Array	Epoxy	0.025"	4x8'
6315	Silver Array	Epoxy	0.025"	4x8'

- **Product Type 418**
Available using Types 415, 416 & 419

- **Product Type 419, Anodized Aluminum**

Pattern	Name	Surface Finish	Thickness	Stock Sizes
6200	Oiled Bronze	Anodized R	0.025"	4x8' & 4x10'
6201	Satin White Bronze	Anodized R	0.025"	4x8' & 4x10'
6202	Satin Brushed Nickel	Anodized R	0.025"	4x8' & 4x10'
6251	Polished Natural Aluminum	Anodized	0.025"	4x8' & 4x10'
6252	Matte Natural Aluminum	Anodized R	0.025"	4x8' & 4x10'
6255	Polished Gold Aluminum	Anodized	0.025"	4x8' & 4x10'
6256	Brite Brushed Natural Aluminum	Anodized R	0.025"	4x8' & 4x10'
6257	Satin Brushed Natural Aluminum	Anodized R	0.025"	4x8' & 4x10'
6258	Satin Brushed Gold Aluminum	Anodized R	0.025"	4x8' & 4x10'
6261	Satin Brushed Light Bronze Aluminum	Anodized R	0.025"	4x8' & 4x10'
6262	Satin Brushed Medium Bronze Aluminum	Anodized R	0.025"	4x8' & 4x10'
6277	AlumaSteel™	Anodized R	0.025"	4x8' & 4x10'
6281	Satin Brushed Smoke Aluminum	Anodized R	0.025"	4x8' & 4x10'
6284	Satin Brushed Copper Aluminum	Anodized R	0.025"	4x8' & 4x10'
6296	Satin Brushed Black Aluminum	Anodized R	0.025"	4x8' & 4x10'

Note: Sample Chain includes #6255P (418) Polished Gold Aluminum with phenolic backer
R Denotes material is produced with recycled aluminum

Sheet Dimensions:

• **Type 414, Galvalume® Steel**

Sheet Width	48" (-0 + 1/2")	1219.2 mm (-0 + 12.7 mm)
Sheet Lengths	96" (-0 + 1/2")	2438.4 mm (-0 + 12.7 mm)
	120" (-0 + 1/2")	3048 mm (-0 + 12.7 mm)
Sheet Thickness	0.019" (0.5 mm)	
Weight PSF	0.90625 # psf	
Type 414 Decorative Strips not available		

• **Type 415, Metro Collection**

Sheet Widths	48" (-0 + 1/2")	1219.2 mm (-0 + 12.7 mm)
Sheet Lengths	96" (-0 + 1/2")	2438.4 mm (-0 + 12.7 mm)
	120" (-0 + 1/2")	3048 mm (-0 + 12.7 mm)
Sheet Thickness	0.025" ± 0.002" (0.64 mm ± 0.05 mm)	
Weight PSF	0.353# psf	
Decorative Strips	1 3/4" x 120" (44.5 mm x 3048 mm)	

• **Type 416, Artisan Group (without phenolic back)**

Sheet Width	48" (-0)	1219.2 mm (-0)
Sheet Lengths	96" (-0)	2438.4 mm (-0)
	120" (-0)	3048 mm (-0 + 12.7 mm)
Sheet Thickness	0.025" ± 0.002" (0.64 mm ± (0.05 mm)	
Edge Trim	1 3/4" x 120" (44.4 mm x 3048 mm)	
Weight PSF	0.353 # psf	
Type 416 Decorative Strips	1 3/4" x 96", 120" (44.5 mm x 2438.4 mm, 3048 mm)	
Type 418 Decorative Strips not available.		

Note: 6311, 6312, 6313, 6314 & 6315 available in 4x8' only

• **Type 418, Decorative Metals (with phenolic back) Made with Types 415 416 & 419**

Sheet Widths	48" (-0 + 1/2")	1219.2 mm (-0 + 12.7 mm)
Sheet Lengths	96" (-0 + 1/2")	2438.4 mm (-0 + 12.7 mm)
	120" (-0 + 1/2")	3048 mm (-0 + 12.7 mm)
Sheet Thickness	0.040" ± 0.004" (1 mm ± 0.1 mm)	
Weight PSF	0.484# psf	
Type 418 Decorative Strips not available		

• **Type 419, Anodized Aluminum (without phenolic back)**

Sheet Widths	48" (-0 + 1/2")	1219.2 mm (-0 + 12.7 mm)
Sheet Lengths	96" (-0 + 1/2")	2438.4 mm (-0 + 12.7 mm)
	120" (-0 + 1/2")	3048 mm (-0 + 12.7 mm)
Sheet Thickness	0.025" ± 0.002" (0.64 mm ± 0.05 mm)	
Weight PSF	0.353# psf	
Decorative Strips	1 3/4" x 120" (44.5 mm x 3048 mm)	

3. **Technical Data**

Codes and Certifications: Currently there are no NEMA standards or tests for decorative metal surfacing. However, American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA), LD3-2005, Annex A, should be consulted for basic fabrication and handling techniques.

The GREENGUARD Environmental Institute™ has awarded its **GREENGUARD® Indoor Air Quality Certification** to Wilsonart Laminate. All Wilsonart Laminate product types were tested under the stringent GREENGUARD Standards for low-emitting products. All GREENGUARD Indoor Air Quality Certified® products ensure minimal impact on the indoor environment. For a copy of the certificate, visit www.greenguard.org.

Typical Fire Test Data: Wilsonart Decorative Metals (**Type 414, 415, 416, 418 & 419**) have been tested in accordance with ASTM-E84, Tunnel Test, and **achieved Class 1 or A as follows:**

Type	Thickness	Smoke Developed	Flame Spread
414, Galvalume® Steel	0.019"	0	0
415, Metro Collection	0.025"	0	0
416, Artisan Group	0.025"	15	0
418, Phenolic Backed with types 416 and 419	0.040"	0	25
419, Anodized Aluminum	0.025"	0	0

Model Code Designations used to determine flame spread classification

Flame Spread Classification (Maximum Rating)	International (IBC)	Life Safety (NFPA 101)
25	A	A
75	B	B
200	C	C

(Reference: Architectural Woodwork Quality Standard, 8th Edition, Version 1.0 - 2003)

All Model Codes regulate the generation of smoke by interior finish material. In all cases they specify a maximum smoke development rating of 450.

Fire code approvals:

NSF Certification

(Type 419) Anodized Aluminum
NSF International Standard 51 approval for splash zone

FDA Certification

(Types 415, 416 & 419) A-Look Mirror Metal, Artisan Group and Anodized Aluminum
Food & Drug Administration approval for food contact

FMVSS 302

(Types 419) Anodized Aluminum
U.S. Federal Motor Vehicle Safety Standard, "Flammability of Interior Materials", compliant

General Standards: Currently there are no NEMA standards or tests for decorative metal surfacing.

Specific Product Standards: Currently there are no NEMA standards or tests for decorative metal surfacing.

4. Installation: Fabrication and Assembly Recommendations

For comprehensive fabrication instructions for Metal types 414, 415, 416, 418 and 419, consult the Decorative Metals **Fabrication Manual, BR0406.**

5. Warranty

Wilsonart LLC warrants that, under normal use and service, the material and workmanship of its Wilsonart® Decorative Metals shall conform to the applicable supplier or industry standards set out below, or to the standards set forth on the applicable technical data sheets for a period of one (1) year from the date of sale to the first consumer purchaser. Dealers and distributors are provided with the technical data sheets which contain specific standards of performance for the products. In the event that a Decorative Metal product does not perform as warranted, the first consumer purchaser's sole remedy shall be limited to repair or replacement of all or any part of the product which is defective, at the manufacturer's sole discretion. In no instance shall the replacement cost exceed the original purchase price paid by the consumer purchaser for the Decorative Metals product.

This warranty applies only to product:

1. In its original installation; and
2. Purchased by the first consumer purchaser.

This warranty is not transferable, **does not cover horizontal applications** and expires upon resale or transfer by the purchaser.

This warranty shall not apply to defects or damage arising from any of the following:

1. Accidents, abrasion, physical impact, abuse or misuse;
2. Exposure to extreme temperature, corrosive atmospheres or precipitants;
3. Improper fabrication, installation or maintenance; or
4. Any damage due to delivery or after delivery of the product to the purchaser.
5. Horizontal applications.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE MADE, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCES SHALL WILSONART LLC BE LIABLE FOR ANY LOSS OR DAMAGE ARISING FROM THE PURCHASE, USE OR INABILITY TO USE THIS PRODUCT, OR FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES. NO FABRICATOR, INSTALLER, DEALER, AGENT OR EMPLOYEE OF WILSONART LLC, HAS THE AUTHORITY TO MODIFY THE OBLIGATIONS OR LIMITATIONS OF THIS WARRANTY.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state; therefore, some of the limitations stated above may not apply to you. It is to your benefit to save your documentation upon purchase of a product.

Supplier or Industry Standards for Decorative Metals for visual surface defects are as follows:

1. Visual Surface Defects – means spots, indents, stains, scratches, orange peel and/or sheet flatness. These defects must not be easily detected when inspected using established viewing conditions.
2. Established viewing conditions shall be from a distance of 6.6 feet with an indirect illumination intensity of 400 lux. The viewing area is 4 square feet.
3. Visual surface defects are measured according to T.A.P.P.I. T564 sp-96, Transparent Chart for the Estimation of Defect Size. A visual defect means spots, indents, etc. that are 0.8mm(2) or more within 4 square feet, or 2 defects each having an area of 0.4mm(2) or more within 4 square feet. Further the visual defect should be at least 12" apart.

6. Maintenance

• Types 414 & 416

For Galvalume® Steel and the Artisan Group, use only glass cleaners that are free of ammonia and petroleum products. 409® Glass & Surface Cleaner and warm water with a mild dish soap solution is also recommended for cleaning. **Do NOT use cleaners that contain abrasives,**

acids or alkalis as they will mar the surface. Do NOT clean metal face with solvents, paint thinner or adhesive remover. After washing, always wipe the surface completely dry with a soft, clean cloth.

- **Types 415, 418 & 419:**

It is recommended that anodized aluminum surfaces be cleaned with 409® Glass & Surface Cleaner and warm water with a mild soap such as those used for hands or dishes. Household cleaners, non-ammoniated detergents, or glass cleaners may be used. Stubborn stains may be removed with a thin, clean oil and a dry cloth. After cleaning, always wipe the surface completely dry with a soft, clean cloth. **Do NOT use cleaners that contain abrasives, acids or alkalis, as they will mar the surface. Ammoniated detergents or petroleum-based cleaners should not be used to clean anodized aluminum surfaces.**

Do NOT clean metal face with solvents, paint thinner or adhesive remover. Refer to BRO406, Decorative Metals Fabrication Manual, for adhesive removal recommendations.

7. Technical Services

For samples, literature, questions or technical assistance, please contact our toll-free Hotline at (800) 433-3222, Monday through Friday, 8 am – 5 pm, CST, or <http://www.wilsonartcontract.com/>

Specification Form:

Surface shall be Wilsonart Decorative Metals, produced by Wilsonart LLC, Temple, Texas 76503-6110.	
Type: Specify 414, 415, 416, 418, or 419	
Surface	
Metal Number:	_____
Metal Name:	_____
Adhesive	
Name:	_____
Grade/Type:	_____
Manufacturer:	_____
Fabrication shall comply with Architectural Woodwork Quality Standards Guide	

MetalsTD (TD0276)
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