

DECOMETAL®

2020-2021 EDITION PRECAUTIONS, GUIDANCE AND INDEX

FORMICA® DecoMetal® PRECAUTIONS

Application Restrictions

A protective coating is supplied on all sheets of DecoMetal® laminates for protection during handling, fabrication and transport. It is recommended that the protective coating is left on the laminate until the finished product is installed and ready for use. Directional patterns have an arrow on the protection coating indicating proper direction for application.

Damage, scratches or wear to the surface of the colored aluminum patterns will reveal silver natural aluminum. Mirror finishes may show some small dimples and, in certain lighting conditions, may display slight color changes. Therefore, prior to fabrication, mirror finish metal laminates should be viewed under lighting conditions specific to the application by peeling back a portion of the protection coating for visual inspection.

For DecoMetal® D8278 Moon Brass, D8279 Diamond Antique Brass, and DH091 Copper Brass Antique, there is a width limitation in design due to the nature of the raw brass foil material. Therefore, for these 3 items, there will be a joint line design effect in the middle of the 4' x 8' size full sheet. For full sheet design, please contact Formica sales representative or refer to Formica website www.formica.com

DecoMetal® D5316 Korten features a melamine surface incorporating iron particles. Some magnetic effect may be evident. Sparks can be emitted during processing. In addition, D5316 Korten is a hand-made design and each individual sheet is unique. Variations between sheets are characteristic of the design and manufacturing process.

Colour Restrictions

Due to deviations that are inherent to natural metal products, Formica® DecoMetal® products may display a range of color shades, which do not indicate a product defect. Check that all sheets are of consistent shading before fabrication. Lift a corner of the protection coating to check shading; reposition protection coating after color check to protect the surface during fabrication.

Formica® DecoMetal® is directional and may show a color shift when viewed at different angles. It is absolutely necessary that the running direction is the same, and the general appearance checked, before assembly. Arrows are printed on the protection coating of items that have a directional pattern, indicating alignment direction. Do not remove the protection coating prior to fabrication.

Exposure of Formica® DecoMetal® sheets to direct sunlight may produce color change in the tinted surface coating. Any slight change in color over time does not indicate a product defect.

Occasionally, interference colors (Newton rings) can occur on polished, anodized aluminum surfaces. Check all polished aluminum laminates under the relevant lighting conditions before fabrication by lifting a corner of the protection coating; reposition the protection coating after checking to protect the surface during fabrication.

Precautions

All laminates of thickness 2mm or less must be supported by a suitable substrate.

Plywood, chipboard and medium density fibreboard (MDF) are substrate materials which lend themselves to good fabrication.

FORMICA® MAGNETIC LAMINATE PRECAUTIONS

Formica® Magnetic Laminate

Formica® Magnetic Laminate should be used in well air-conditioned rooms without exposing to direct heat. Surface temperature should not be allowed to exceed 60°C to avoid surface cracking.

Careshould be taken when cutting the magnetic laminate sheets as sparks and flying chippings can occur. Eye protection must be worn even when guardsare in place!

Gloss Surface

Text and images can be drawn onto the surface using good quality drywipe marker pens or water-soluble liquid chalk pens. This can be removed using a felt-based eraser.

Note: The longer the images or text is left on the surface, the more difficult they are to remove. Extra effort may be required to remove stubborn liquid chalk residue.

Matte Surface

Text and images can be drawn onto the surface using conventional classroom chalks and water-soluble liquid chalk pens. Conventional classroom chalks can be removed using a soft cloth or a felt chalkboard eraser. Water-soluble liquid chalk pens can be removed with a soft damp cloth.

Matte surfaces (e.g. D8207) are especially developed as visual display projection surfaces with the properties of low reflective surfaces.

General Note on Board Markers

Text and images can be drawn onto the surface using appropriate board markers and it can be removed using a soft cloth or a feltchalkboard eraser.

Depending on the quality of the board markers , no ghosting should occur, however if some ghosting may be visible from the residue left on the surface, it can be removed using a damp cloth.

Please note that some surface finishes have limited dry wipe capabilities and that frequent, intensive cleaning is recommended to be done on a regular basis to help remove ghosting and chalk residues.

FABRICATION GUIDANCE

Handling

Care should be taken when handling decorative laminates to avoid breakages and damage. When loading and unloading, sheets should be lifted, not slid. Abrasion between decorative faces should be avoided.

Individual sheets should be carried with the decorative face towards the body. Sheets become rigid and thus easier to handle if they are bowed along the longitudinal axis. Large sheets should always be handled by two men.

All DecoMetal® laminates should be transported and stored flat, it is not recommended to roll these laminates for transport.

Storage

Formica® laminates should preferably be stored face to face, flat in horizontal racks. The use of a cover board for covering the top sheet and keeping it flat is recommended. If this is impractical, the top sheet should be turned decorative face downwards, to prevent surface damage and warping.

Decorative laminates should always be kept in an enclosed dry store together with corresponding substrate materials, backing boards and adhesives, at a temperature of not less than 18°C (65°F) and relative humidity of no lower than 50%.

Substrate

All laminates of thickness 2mm or less must be supported by a suitable substrate.

Plywood, chipboard and medium density fibreboard (MDF) are substrate materials which lend themselves to good fabrication.

The three purposes of a good substrate are:

1. To support the laminate
2. To resist bowing
3. To meet the required performance specification.

In addition, it is essential that the surface of the substrate should be sufficiently smooth to prevent the transfer of defects through to the decorative laminate surface (commonly known as telegraphing).

Note: MDF is optimal in terms of evenness, and laminate is optimal in terms of structural strength. Temperature and relative humidity may cause dimensional deformation to a certain degree, so in case of large area application, please take into consideration substrate structure and density. The ideal situation is at temperature of 24°C and relative humidity of about 45%.

The refractory board and substrate should be bonded after certain conditions are met. Too damp or dry conditions may influence later bonding to a considerable degree; drier material will not only make bonding difficult, but absorb a large amount of moisture, leading to significant board expansion, i.e. torsional deformation, affecting the construction.

| Conditions | Relative Humidity & Moisture Content | | | Ambient Temperature (°C) | | |
|--|--------------------------------------|---------|------|--------------------------|---------|------|
| | Min. | Optimal | Max. | Min. | Optimal | Max. |
| Relative humidity in operating environment | 30% | 45% | 60% | 18% | 24% | - |
| Moisture content for refractory board | 4% | 5% | 6% | 18% | 24% | - |
| Moisture content for flakeboard | 8% | 10% | 12% | 18% | 24% | - |

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| Page | Space | Code | English Name | Magnetic | Size | Thickness | Stock |
|------|-------|-------|--|----------|-------|-----------|-------|
| 13 | B1 | D1990 | Polished Black | | 4'x8' | 1.0 | S |
| 25 | B2 | D1999 | Copper Antique | | 4'x8' | 1.3 | |
| 13 | A1 | D2021 | Mirror Aluminium | | 4'x8' | 1.0 | |
| 19 | A2 | D2022 | Brushed Aluminium | | 4'x8' | 1.0 | S |
| 23 | A1 | D2006 | Matte Bronze Aluminium New | | 4'x8' | 1.0 | |
| 19 | A1 | D2032 | Brushed Pewter | | 4'x8' | 1.0 | S |
| 15 | A1 | D2035 | Aluminium Mesh | | 4'x8' | 1.3 | |
| 13 | C1 | D2041 | Polished Gold Aluminium | | 4'x8' | 1.0 | S |
| 19 | C2 | D2042 | Brushed Goldtone | | 4'x8' | 1.0 | S |
| 19 | C3 | D2052 | Brushed Copper Aluminium | | 4'x8' | 1.0 | |
| 25 | C2 | D2113 | Copper Maple Leaves | | 4'x8' | 1.3 | S |
| 25 | B1 | D2121 | Light Hammer Copper Antiqued | | 4'x8' | 1.3 | |
| 19 | B4 | D2126 | Bronze Brushed Aluminium | | 4'x8' | 1.0 | S |
| 21 | A1 | D2178 | Brushed Stainless Steel | | 4'x8' | 0.8 | S |
| 03 | A2 | D2802 | Dimpled Goldtone | | 4'x8' | 1.0 | S |
| 07 | B1 | D2805 | Lounge Bronzestone | | 4'x8' | 1.3 | S |
| 07 | A1 | D2806 | Lounge Steeltone | | 4'x8' | 1.3 | S |
| 03 | B2 | D2807 | Dimpled Bronzestone | | 4'x8' | 1.0 | S |
| 17 | A1 | D4116 | Aluminium Crush | | 4'x8' | 1.0 | |
| 19 | B1 | D4249 | Aluminium Longline | | 4'x8' | 1.0 | S |
| 29 | A3 | D4508 | Brushed Magnetic Board | M | 4'x8' | 1.0 | |
| 25 | A2 | D4691 | Copper Stratos Diagonal | | 4'x8' | 1.3 | |
| 29 | A1 | D4702 | Raw Magnetic Board | M | 4'x8' | 1.0 | |
| 21 | A2 | D4740 | Horizontal Corrugated Steeltone | | 4'x8' | 0.9 | |
| 21 | C1 | D4748 | Vertical Corrugated Matte Aluminium | | 4'x8' | 0.9 | |
| 09 | B3 | D4751 | Cella Polished Tea | | 4'x8' | 1.3 | |
| 21 | B2 | D4778 | Horizontal Corrugated Matte Anthracite | | 4'x8' | 0.9 | |
| 15 | C1 | D4899 | Bronze Mesh | | 4'x8' | 1.3 | S |
| 09 | A1 | D4939 | Cella Goldtone | | 4'x8' | 1.3 | |
| 15 | B1 | D4941 | Champagne Mesh | | 4'x8' | 1.3 | |
| 05 | A1 | D5306 | Plex Argent | | 4'x8' | 1.0 | |
| 05 | B2 | D5307 | Plex Umbra | | 4'x8' | 1.0 | |
| 05 | B1 | D5309 | Plex Gold | | 4'x8' | 1.0 | S |
| 05 | A2 | D5310 | Plex Graphite | | 4'x8' | 1.0 | S |
| 05 | A4 | D5312 | Brushed Umbra | | 4'x8' | 1.0 | S |
| 25 | C1 | D5316 | Korten | | 4'x8' | 1.3 | S |
| 07 | B4 | D5391 | Graphite Veil | | 4'x8' | 1.3 | |
| 07 | C4 | D5392 | Copper Veil | | 4'x8' | 1.3 | |
| 13 | C3 | D5471 | Lava Goldtone | | 4'x8' | 1.3 | S |

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| Page | Space | Code | English Name | Magnetic | Size | Thickness | Stock |
|------|-------|-------|-------------------------------|----------|-------|-----------|-------|
| 13 | B3 | D5474 | Lava Smokey Grey | | 4'x8' | 1.3 | |
| 05 | C3 | D6483 | Craft Bronzestone | | 4'x8' | 1.3 | |
| 05 | A3 | D6484 | Craft Argent | | 4'x8' | 1.3 | |
| 05 | B3 | D6485 | Craft Umbra | | 4'x8' | 1.3 | |
| 05 | C2 | D6486 | Plex Bronzestone | | 4'x8' | 1.0 | S |
| 07 | A4 | D8040 | Cross-Brushed Brownish Grey | | 4'x8' | 1.0 | S |
| 19 | C1 | D8103 | Champagne Longline | | 4'x8' | 1.0 | S |
| 17 | B2 | D8104 | Copper Plain Crush Stipple | | 4'x8' | 1.3 | |
| 17 | C2 | D8105 | Aluminium Brushed Black | | 4'x8' | 1.0 | S |
| 17 | A2 | D8109 | Copper Crush | | 4'x8' | 1.3 | |
| 27 | C1 | D8202 | Grid-point Gloss Whiteboard | M | 4'x8' | 1.0 | S |
| 27 | C3 | D8205 | Black Magnetic Chalkboard | M | 4'x8' | 1.0 | S |
| 27 | B1 | D8206 | Gloss Magnetic Whiteboard | M | 4'x8' | 1.0 | S |
| 27 | A1 | D8207 | Projector Matte | M | 4'x8' | 1.0 | |
| 27 | B2 | D8211 | Green Magnetic Chalkboard | M | 4'x8' | 1.0 | S |
| 27 | A2 | D8234 | Macchiato Magnetic Chalkboard | M | 4'x8' | 1.0 | |
| 09 | A3 | D8265 | Cella Polished Coppertone | | 4'x8' | 1.3 | |
| 09 | A2 | D8266 | Cella Polished Smokey Grey | | 4'x8' | 1.3 | |
| 27 | A3 | D8267 | Slate Black | M | 4'x8' | 1.0 | |
| 07 | A2 | D8269 | Crisp Gold | | 4'x8' | 1.0 | |
| 07 | B2 | D8270 | Crisp Anthracite | | 4'x8' | 1.0 | |
| 07 | C2 | D8271 | Crisp Oxygreen | | 4'x8' | 1.0 | |
| 07 | A3 | D8272 | Crisp Rose | | 4'x8' | 1.0 | |
| 07 | B3 | D8274 | Crisp Antique Copper | | 4'x8' | 1.3 | |
| 03 | A4 | D8275 | Moon Turquoise Copper | | 4'x8' | 1.3 | |
| 03 | B3 | D8276 | Moon Dark Copper | | 4'x8' | 1.3 | |
| 03 | A3 | D8277 | Moon Light Copper | | 4'x8' | 1.3 | |
| 03 | C3 | D8278 | Moon Brass | | 4'x8' | 1.3 | |
| 03 | C1 | D8279 | Diamond Antique Brass | | 4'x8' | 1.3 | |
| 03 | B1 | D8280 | Diamond Antique Copper | | 4'x8' | 1.3 | |
| 11 | A1 | D8281 | Cascade Natural | | 4'x8' | 1.3 | |
| 11 | A2 | D8282 | Cascade Goldtone | | 4'x8' | 1.3 | |
| 11 | C2 | D8283 | Cascade Tea | | 4'x8' | 1.3 | |
| 11 | B1 | D8284 | Cascade Smokey Grey | | 4'x8' | 1.3 | |
| 11 | B2 | D8285 | Cascade Coppertone | | 4'x8' | 1.3 | |
| 09 | B2 | D8286 | Cella Polished Natural | | 4'x8' | 1.3 | |
| 09 | C2 | D8287 | Cella Polished Goldtone | | 4'x8' | 1.3 | |
| 11 | A3 | D8288 | Crossline Polished Natural | | 4'x8' | 1.3 | |
| 11 | A4 | D8289 | Crossline Polished Goldtone | | 4'x8' | 1.3 | |

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| Page | Space | Code | English Name | Magnetic | Size | Thickness | Stock |
|------|-------|-------|--|----------|-------|-----------|-------|
| 11 | C4 | D8290 | Crossline Polished Tea | | 4'x8' | 1.3 | |
| 11 | B3 | D8291 | Crossline Polished Smokey Grey | | 4'x8' | 1.3 | |
| 11 | B4 | D8292 | Crossline Polished Coppertone | | 4'x8' | 1.3 | |
| 09 | B1 | DH003 | Cella Coppertone | | 4'x8' | 1.3 | S |
| 09 | C1 | DH004 | Cella Black | | 4'x8' | 1.3 | |
| 19 | A4 | DH005 | Brushed Bronzestone | | 4'x8' | 1.0 | S |
| 23 | B1 | DH007 | Matte Gunmetal | | 4'x8' | 1.0 | |
| 13 | B2 | DH008 | Mirror Coppertone | | 4'x8' | 1.0 | S |
| 17 | B1 | DH014 | Matrix Champagne | | 4'x8' | 1.3 | |
| 03 | C2 | DH018 | Dimpled Anthracite | | 4'x8' | 1.0 | |
| 23 | C2 | DH020 | Footplate Steeltone | | 4'x8' | 1.3 | |
| 27 | B3 | DH026 | Black Matt Glatt (without magnetic effect) | M | 4'x8' | 1.0 | |
| 29 | C2 | DH028 | Stone Grey Magnetic Whiteboard | M | 4'x8' | 1.0 | |
| 29 | B2 | DH029 | Stone Grey Magnetic Chalkboard | M | 4'x8' | 1.0 | |
| 29 | B3 | DH030 | Cross-Brushed Magnetic Board | M | 4'x8' | 1.3 | |
| 29 | C3 | DH031 | Macchiato Magnetic Whiteboard | M | 4'x8' | 1.0 | |
| 15 | A3 | DH035 | Cross-Brushed Natural | | 4'x8' | 1.0 | S |
| 15 | B3 | DH036 | Cross-Brushed Goldtone | | 4'x8' | 1.0 | S |
| 15 | A4 | DH038 | Brushed Graphite | | 4'x8' | 1.0 | S |
| 15 | C3 | DH039 | Anthracite Mesh | | 4'x8' | 1.3 | |
| 13 | B4 | DH089 | Lava Coppertone | | 4'x8' | 1.3 | S |
| 25 | A1 | DH091 | Copper Brass Antique | | 4'x8' | 1.0 | |
| 23 | C1 | DH094 | Satin Steeltone | | 4'x8' | 1.0 | |
| 23 | A2 | DH098 | Dots Reverse | | 4'x8' | 1.3 | |
| 23 | B2 | DH105 | Dots Steeltone | | 4'x8' | 1.3 | |
| 29 | A2 | DH110 | Light Grey Magnetic Whiteboard | M | 4'x8' | 1.0 | S |
| 29 | B1 | DH112 | Applegreen Magnetic Whiteboard | M | 4'x8' | 1.0 | |
| 13 | A2 | DH123 | Mirror Tea | | 4'x8' | 1.0 | |
| 19 | B2 | DH137 | Brushed Champagne | | 4'x8' | 1.0 | S |
| 19 | B3 | DH138 | Bronzestone Longline | | 4'x8' | 1.0 | S |
| 19 | A3 | DH139 | Brushed Rosegold | | 4'x8' | 1.0 | S |
| 15 | A2 | DH140 | Natural Polished Mesh | | 4'x8' | 1.3 | S |
| 13 | A3 | DH141 | Lava Natural | | 4'x8' | 1.3 | |
| 15 | B2 | DH142 | Goldtone Polished Mesh | | 4'x8' | 1.3 | S |
| 13 | A4 | DH144 | Lava Tea | | 4'x8' | 1.3 | |
| 03 | A1 | DH147 | Diamond Bronzestone | | 4'x8' | 1.0 | |
| 15 | C2 | DH148 | Vintage Mesh | | 4'x8' | 1.3 | |
| 21 | B1 | DH187 | Vertical Corrugated Steeltone | | 4'x8' | 0.9 | |

