

DURALUM LINE

Architectural panels - Aluminum

1. Product Names:

DA1000 Plate panel
 DA2000 Folded panel
 DA3000 Screwed surface panel
 DA4000 Flush/Reveal panel
 DA5000 Rivet panel

2. Manufacturer :

3D Panels inc.
 1-877-731-7067
customerservice@3DPanelsinc.com
<http://3DPanelsinc.com/>

3. Product Description:

The DURALUM line consists of aluminum panels. Aluminum is characterized for being a light, flat, hard and highly malleable material. Aluminum also has great corrosion resistance properties and is environmentally friendly due to its infinite recycling capacities. This type of panel represents the ideal choice for environmentally conscious individuals searching for a long-lasting solution.

USES

These panels are predominantly used for exterior wall cladding and can be used to cover walls, soffits, canopies and parapets.

The aluminum used in the manufacturing of these panels is from aluminum alloy 3003 H14 (utility quality) and 5005 H34 (anodic quality). It is also possible to use aluminum alloy 5052 H-52 upon request.

DIMENSIONS

Generally, the aluminum sheets used to produce panels are 3.2 mm (0.123 in) thick. It is possible to use sheets with a thickness of 2 mm, 4.5 mm or 6 mm on demand. The maximum dimension for the panels is 1830 x 3658 mm (6 x 12 ft).

FINISHES & COLORS

Liquid or powder coat, as well as anodized finishes that meet AAMA2603, AAMA2604 or AAMA2605 standards, depending on the type of paint and the required warranty

Various suppliers offer a wide range of finishes and colors. Solid, mica, metallic and multi-colors are available. Anodic, anodized, zinc, copper, stainless steel, and other finishes are available. Possibility of developing customized colors.

See our website for more information on our suppliers and their color charts



4. Availability & Cost:

AVAILABILITY

3D Panels products are available throughout Canada and the United States from our head office located in Québec. Contact our representative for more information.

COST

Our quotations are presented in \$/sq.ft. Prices vary depending on the project and its characteristics. The total surface to cover, the number of panels, as well as the dimension, shape, finish and thickness of the panels used may influence prices. Please contact our representative for a free quote.

5. Installation:

Installation must comply with the manufacturer's requirements, recommendations, specifications and any instructions found in the product's catalogue, packaging and technical data sheets.

- Set up sub-girts systems by incorporating thermal breaks;
- Fix components to allow thermal contraction and expansion movements. Use fastener according to the manufacturer's recommendations;
- Install panels in accordance with joint locations, as specified in drawings;
- Our joint fillers are supplied in 22 ft length. We strongly recommend to install them in lengths of 11 ft to allow thermal contraction and expansion;
- Any manufacturing defect must be reported following visual inspection before installing the panel.

6. Warranty:

The warranty period for the manufacturing of the panels is one (1) year from date of Substantial Completion. It is possible to extend the warranty period upon request.

Finish warranty period depends on the type of finish, the color and the supplier. Our various suppliers offer warranties covering 5, 10, 20 and 30 years. Contact our representative to validate the warranty of the finish in question.

7. Maintenance:

Maintenance of painted surfaces is important in order to keep them smooth and spotless. The following procedure must be used:

- Use clean water, to which small amounts of neutral or slightly alkaline detergents may be added. Alkaline detergents or excessively acid and active surface agents that could react upon contact with aluminum are not recommended. Abrasives and abrasive cleaners are not to be used. Organic solvents containing ester, alcohol, compound, ether, etc. must not be used. Detergents with unknown components are to be avoided.
- Use only a cotton or soft cloth and apply light pressure. Do not apply excessive pressure
- The panel and detergent temperatures must not exceed 77 °F/25 °C.
- Never use a steam jet to clean panels.
- Oily, greasy or other types of substances can be removed with hydrocarbon (naphta) exempt of aromatic components.
- Glue, silicon or adhesive tape residue must be removed immediately in the same way.
- We recommend rinsing the panels immediately with clean, cold water after each cleaning.
- Repeat application after 24 hours if necessary.

8. Technical Services:

3D Panels offers technical assistance services such as measurement assistance and design/architecture assistance. For more information, consult our website or contact us.

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9. Norms & Standards* :

Laboratory performance tests were made on DURALUM aluminum panels by Air-Ins inc.

The panel systems analyzed meet the recommendations of the 2010 National Building Code for the following testing methods:

AIR PERMEABILITY RESISTANCE:

ASTM E283-04, "Standard Test Method for Determining Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Difference Across the Specimen".

WATER PENETRATION RESISTANCE UNDER DIFFERENTIAL STATIC PRESSURE:

ASTM E331-00, "Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference".

WATER PENETRATION RESISTANCE UNDER DIFFERENTIAL DYNAMIC PRESSURE:

AAMA 501.1-05, "Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure".

STRUCTURAL PERFORMANCE:

ASTM E330-02, "Standard Test Method Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference".

Please see manufacturers technical data sheets for norms and standards of aluminum composite

panels and finishes.

**This section applies only to DA1000*

10. Manufacturing Tolerances :

Width:	Length:	Camber :	Panel Bow :	Diagonal :
± 0,8mm up to 1219mm	±1,6mm up to 3538 mm	0,8mm maximum	0,02% maximum of width and 5mm maximum of length	5mm maximum



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