

## SL Panels

The Danica Corporation designs and manufactures Clean Room Panels to meet the most stringent requirement for cGMP Compliance, Quality Standards, design flexibility and long term operational reliability.

The Danica Corporation is a Leader in Turn-Key Clean Room Systems and offers the largest selection of custom and standard Clean Room Panels and Clean Room Components in the North America Market. Danica manufactures over 2.4 million square feet of panels annual and has 35 years of design, manufacturing and installation experience.

Danica's designs and manufactures clean room wall & ceiling panels, doors, pass throughs and other clean room components which comply with the following Cleanliness Classifications; cGMP, FDA, E161, NOM059, ANVISA. Danica has the expertise to custom engineer a clean room solution that meets the client's requirements for style, size and materials of construction.

## STAINLESS STEEL, COATED GALVALUME STEEL AND GLASS CLEAN ROOM PANELS

The Danica Clean Room panels are designed with an insulating core material between a metallic cladding. Danica offers a wide range of insulating materials and metallic cladding which allow the client to designed, purchase and install a clean room solution that fits the application and budget.

### Panel Features

- Smooth and impermeable surfaces
- Sealed to eliminate the release particles into the inner environment
- Washable and easy to clean
- Durable and Resistant to attack from cleaning and sanitizing agents

### Insulation Features

- PIR (polyisocyanurate) – Approved as a Class A Building Material (ASTM E 84) and approved by Factory Mutual Insurance Company. Molded apparent specific mass (MEAM) of 2.31 (37) through 2.62ib/ft<sup>3</sup> (42kg/m<sup>3</sup>)
- Rock Wool - Approved as a Class A Building Material (ASTM E 84) and Approved by Factory Mutual Insurance Company. The Rock Wool has a minimum apparent specific mass (MEA) of 4.99ib/ft<sup>3</sup> (80kg/m<sup>3</sup>)
- PUR (polyurethane) – injected with high pressure, with molded apparent specific mass (MEAM) of 2.31 (37) through 2.62ib/ft<sup>3</sup> (42kg/m<sup>3</sup>)

### Cladding Features

#### (Stainless Steel, Coated Galvalume Steel or Glass)

#### 304 and 316 Stainless Steel Option

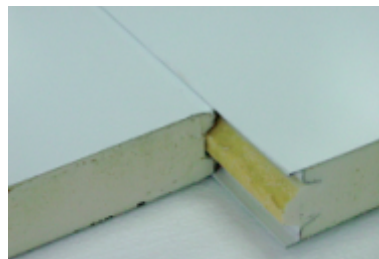
- Stainless Steel is highly resistant to corrosion and provides a smooth and non-porous surface (similar to glass) that is easy to clean. Stainless Steel is an excellent material for application that require a minimal risk to contamination for an aseptic, hygienic environment
- Complies with norm ASTM 480/A480M-03C

#### Coated Galvalume Steel Option

- The Coated Galvalume Steel provides a durable, smooth surface that can vary in thickness and contains a protective layer comprised of 55% aluminum, 43.5% Zinc and 1.5% Silicium. The final surface has an electrostatic pre painted finish in standard white or any other color selected by the client

#### Glass Option

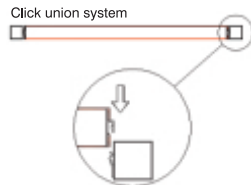
- The windows are constructed with double glazing within a special profile frame designed to be flush mounted within a Danica Wall Panel
- The windows are constructed with either a stainless steel profile frame or an anodized aluminum profile frame
- All windows are pressurized with inert gas and sealed with silica gel to minimize the possibility of internal condensation



## Fitting Systems for SL Panels

### CLICK (Click SL Panel) – PIR, Rock Wool or PUR

The Danica Click fitting system allow for the removal of an individual panel without removing adjacent panels. The Click fitting system contains an aluminum profile mounted the panel and a stainless steel catch mounted to a post which allows easy insertion or removal of a panel from the Clean Room System.



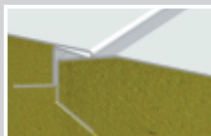
Panel SL Click

#### CLICK SL Panel – Steel of 0.5mm

Insulating Thickness		PUR/PIR		Own Weight Rock Wool		Useful Width	
(in)	(mm)	(lb/ft <sup>2</sup> )	(Kg/m <sup>2</sup> )	(in)	(mm)	(in)	(mm)
1.97	50	2.42	11,80	98.86	14,60	45.67	1160
3.94	100	2.81	13,70	132.73	19,60	45.67	1160

### MF (MF SL Panel) – PIR, Rock Wool or PUR

The Danica Clean Room Panels are designed with a 'male and female' junction that allows the panels to be fitted together to form a smooth surface that is sealed with silicone.



PUR (polyurethane)  
PIR (polyisocyanurate)

#### PUR or PIR MF SL Panel - Steel of 0.5mm

Insulating Thickness		Useful Width		Own Weight		Maximum Self-contained Clearance	
(in)	(mm)	(in)	(mm)	(lb/ft <sup>2</sup> )	(Kg/m <sup>2</sup> )	(in)	(mm)
1.97	50	45.24	1149	2,32	11,33	107.09	2720
2.76	75	45.24	1149	2,47	12,08	140.95	3580
3.94	100	45.24	1149	2,71	13,22	169.89	4315



ROCK WOOL

#### Rock Wool MF SL Panel - Steel of 0.5mm

Insulating Thickness		Useful Width		Own Weight		Maximum Self-contained Clearance	
(in)	(mm)	(in)	(mm)	(lb/ft <sup>2</sup> )	(Kg/m <sup>2</sup> )	(in)	(mm)
1.97	50	45.04	1144	2,89	14,09	51.19	1300
2.76	75	45.04	1144	3,40	16,59	63.00	1600
3.94	100	45.04	1144	3,91	19,09	70.87	1800

\* Concentrated load of 100Kgf and admissible deflection

## Furnishings

### Rounded corner profiles

- Rounded corners of anodized aluminum are installed at all joints between the wall and floor or wall and ceiling
- The system base is also designed for epoxy floor system to finish flush with bottom of panel when the floor profile trim is not used
- Trimming cups of anodized aluminum or stainless steel are installed in each corner
- 'T' profiles of anodized aluminum or stainless steel are available for ceiling panel penetrations

### Silicone

- GMP Approved silicone is applied between all joints to provide an excellent seal and aesthetic finish



Only company in the segment with products that are approved in Class 1 by the American insurance company Factory Mutual.



- Technical Design Assistance
- Certified Installers
- After Sales and Service

Danica Panels are ASTM E-84 Tested and rated as Class 1 Building Materials.



The solution in thermal insulating systems.  
**Clean Room Division**

[www.danicacorporation.com](http://www.danicacorporation.com)