

Panel System 612 EX

Exterior Open Cell Ceiling



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Good solution as a decorative exterior open type ceiling and it also can withstand wind pressure. Consult "**Suckow & Fischer**" for more details.



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For safety, maintenance or ventilation reasons, there are some areas like the canopy of the buildings that may require exterior ceiling to hide building services, gas ducts or down pipes above but the ceiling must not be a concealed system. **Panel System 612 EX** is an open cell ceiling that can suit the aforementioned purposes. The ceiling system not only provides aesthetic effect to block your view to those untidy building services above the ceiling level but it also leaves them to be visible from floor level for your easy inspection and maintenance. On top of that, the ceiling system can withstand wind pressure for external applications.

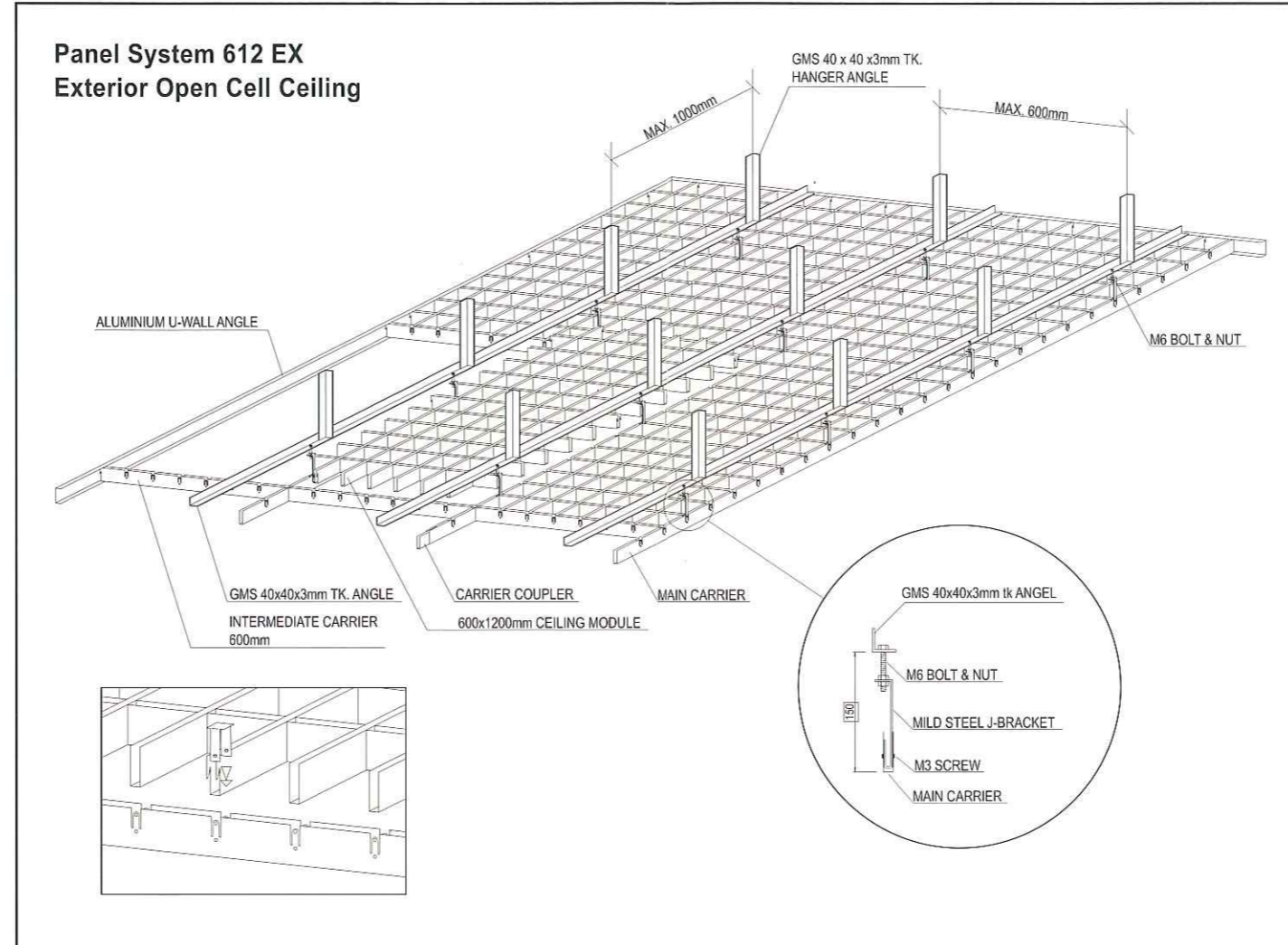
The standard cell ceiling element is 600 x 1200mm c/c (also available in 600 x 600mm upon request) with optional various cell modules and heights for selection. The cell ceiling element comprises of upper and lower strips in 12mm width, which are interlocking to each other to form besides the cell modules with the choices in: 50x50mm, 75x75mm, 100x100mm, 150x150mm and 200x200mm c/c. There are also two standard cell heights available: 40mm or 50mm besides the choices of cell modules.

The system is easily integrated with the building services such as lighting fixtures, signage, and sprinkler systems regardless of sizes. Factory fabricated colour matching aluminium adaptors with cutout openings for downlights, and sprinkler heads to form a flush front surface with the cell ceiling are optional upon request. The system is suitable as exterior decorative ceiling at shopping malls, exhibition centers and public area of residential & commercial buildings.

Panel Carriers & Suspension System

The system is suspended by GMS 40x40x3mm angle sub-frame running in parallel above the main carriers of the open cell ceiling. There are special designed mild steel J-brackets inserted into the U-channel of the main carriers at 300mm c/c and fixed with M3 screws. The J-brackets of main carriers are fixed onto the angle sub-frame above by M6 bolts and nuts where the installer can adjust the ceiling leveling. The span of the angle sub-frame is running parallel at 600mm c/c; cantilever GMS angle may add in certain positions to stabilize the metal sub-frame if necessary.

The cross carrier is interlocked onto main carrier at 600mm c/c to form 600 x 1200mm grid module. The assembled cell ceiling elements are hooked on the factory pre-punched cutouts of the main and intermediate runners. After placing properly of the cell elements on the main and cross runners,



then insert the stainless steel panel clips from the top of the cell elements at the intersection between main and intermediate runners at 300mm c/c.

Materials

The open cell ceiling panel is made of aluminium alloy coil-coated in advanced polymer system. The aluminium coil thickness is 0.5mm.

Finishes

Polyester stove-enamelled coil-coated finish on visible side is minimum 20 micron thick; non-visible side is 5 micron thick prime coated. Optional polyester powder coated finishes with minimum 60 micron thick in RAL colours are available upon request.

Fabrication Process

Continuous cold rolling technique is applied to form ceiling panel to the required shape.

Panel Clips

The cell ceiling element shall be properly locked with stainless steel panel clips at the intersection between the main and cross runners for withstanding of wind pressure.

Wind Pressure Test

The system is complied with Wind Pressure Test: ASTM 330E, Procedure B.

Standard Panel Length

Main carrier : 2400mm
Intermediate carrier : 600mm
Upper panel strip : 600mm
Lower panel strip : 1200mm (optional 600mm)

Accessibility to Plenum

The ceiling system is demountable by taking the panel clips off from the cell elements and removing the cell elements from the main and intermediate runners.

Installation Guidelines

Minimum overhead clearances : 200mm for 40/50mm high ceiling
Distance between J-brackets : 300mm c/c Maximum
Distance between main carriers and GMS angle sub-frame : 600mm c/c Maximum
Distance between cross carriers : 1200mm c/c Maximum
Distance between suspension hangers : 1000mm c/c Maximum

Advantages of Panel System 612 EX Exterior Open Cell Ceiling

- Proven exterior open cell ceiling with laboratory wind tests.
- Decorative yet good for inspection & maintenance of building services behind.
- Open cell ceiling with integrated suspension carriers in same shape and colour.
- Choices of various cell modules and panel heights.
- Colour consistency with coil coated material.
- Low maintenance; dismantle individual cell element possible.



Accessories

