

Coretinium®

A unique and durable composite solution that delivers light-weight products and design innovation.

The combination of high performance Colorcoat® pre-finished steel and a rigid polymer honeycomb core Coretinium® provides a highly aesthetic composite solution with exceptional rigidity to weight ratio.

Coretinium® is ideally suited to a wide range of applications such as; building interiors, moveable partitions, heating and ventilation systems, office furniture, modular housing, event flooring and exhibition stands.



Coretinium® features and benefits

- Manufactured from thin gauge pre-finished steel that provides exceptional rigidity at a relatively low weight compared to commonly used alternatives. This enables products to be created that are easier to handle and have reduced shipment costs.
- Available in a choice of colours, Coretinium® is ready to use in most applications but also provides a perfect surface for direct adhesive bonding or decorating with vinyl wraps reducing manufacturing time.
- Enhanced adhesion layer and optimised core solution that maintains bond integrity in moist and humid conditions. Significantly extending the end product life.
- Open honeycomb core structure allows for single sided riveting enabling secret-fix solutions that maintain the overall front surface aesthetics of the finished product.
- Fire resistant steel layer gives Coretinium® a B-s1, d0 classification as per EN 13823 enabling this lightweight composite solution to be used in building interiors and accommodation units.
- Colorcoat® pre-finished steel skins open up a whole range of possibilities for use with magnetic fixtures and fittings.

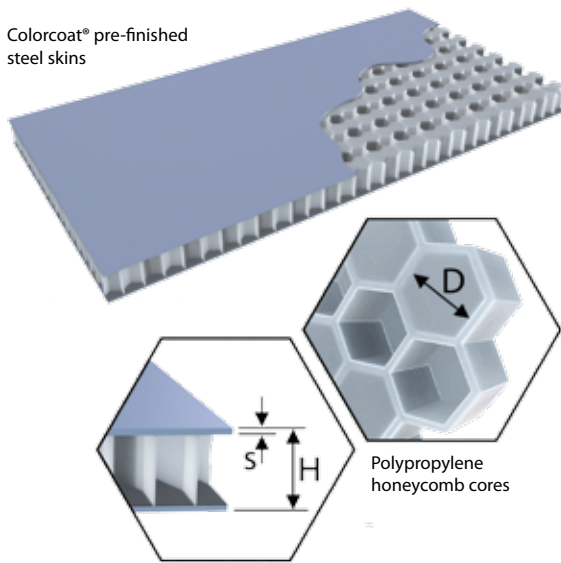
Product information

Product code	Skin ⁽¹⁾ thickness s (mm)	Core height (mm)	Total height ⁽²⁾ H (mm)	Core cell diameter D (mm)	Panel weight (kg/m ²)	Rigidity E ⁻¹ (kNcm ² /m)
10mm Coretinium®	0.4	9.2	10.0	7.0	7.50	36,000

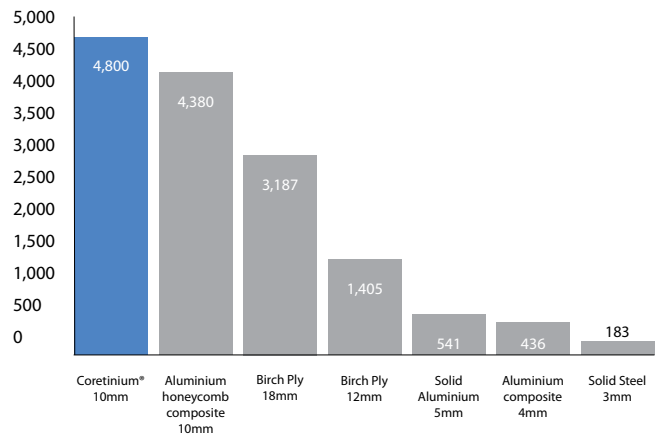
⁽¹⁾ Standard Colorcoat® pre-finished steel face based on 0.4mm S220 Galvalloy™ - other face thicknesses & grades available on request subject to minimum order quantity.

⁽²⁾ Standard thickness tolerance +/- 0.2mm.

Coretinium® - The combination of two high performance materials



Specific rigidity (kNcm²/m per kg)



Fire safe

Coretinium® passes EN13823:2010 with a Class B-s1, d0 classification making it an ideal building interiors solution.

Recyclable

At the end of its life the Coretinium® composite product can be considered as general steel scrap and be completely recycled via the steel making process without the need to separate the core from the skins.

Exceptional bond strength

Thanks to its high bond surface area and unique adhesive solution, the bond strength of Coretinium® is typically twice as strong as other commonly used composite materials.

Coretinium® is supplied with Colorcoat Prisma® - the ultimate combination of durability and aesthetics.

Colorcoat Prisma® is made up of a number of layers, which perform different functions. The Galvalloy™ metallic coating and high build primer provide the corrosion resistance, and the topcoat utilises the latest polymer technology to provide abrasion and UV resistance. The Galvalloy™ metallic coating is a special mix of zinc and aluminium that provides unrivalled corrosion protection, even at cut edges.

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