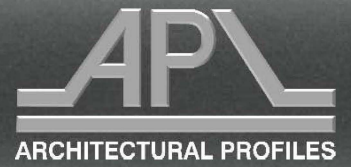




Armacoil™ HDP-HT



APA
ARCHITECTURAL PROFILES



A1-Rated Solid Aluminium Cladding
Panels

Armacoil™ HDP-HT

Armacoil™ HDP-HT is a pre-painted aluminium flat sheet product, specifically designed and manufactured for the cladding and facades industry and is available in a variety of different colours and finishes. This product is permitted for use as cladding or facade on public and residential building, to any height. It is a non-combustible product and has an A1 certified rating to EN 13501.

High strength - Wide Span Width

Armacoil™ HDP-HT is an AlMg3 / 5754 grade substrate with an HDP coating. Available in 2mm and 3mm thickness, it has a weight of approx. 5.4kg per m² (@ 2mm) and yet retains similar span and fixing widths of 3mm 1050 grade. This means the weight of the project can be reduced by a third while keeping the same fixing widths.

This lower weight helps reduce installation and transport costs without compromising on the materials ability to handle high stress environments e.g. tall buildings with high wind loads

Fire Rating

Armacoil™ HDP-HT is a non-combustible product and has an A1 certified rating to EN 13501

Colours

Armacoil™ HDP-HT is available in a wide range of solid, metallic and special colours. A larger range of colours is available for larger projects on a longer lead time, including a variety of plain, metallic and 'anodic' special colours

Weather-Resistant HDP Coating

Armacoil™ HDP-HT is coil-coated with a high-quality 3-coat HDP coating. This pre-painted aluminium has a flawless, brilliant surface with excellent colour and gloss retention meaning it is low maintenance. Due to the 3-coat system, Armacoil™ HDP-HT has excellent weather and UV resistance.

The coating used on Armacoil™ HDP-HT is applied in 3 layers and then stove enamelled. This is done in a continual coil process ensuring continuity of colour and gloss throughout the batch.



Warranty

Armacoil™ HDP-HT on a 5754 substrate with a 3-layer HDP coating application can have an upto 25-year warranty.

Installation

Armacoil™ HDP-HT works with both ventilated and non-ventilated cladding structures. The easy forming properties also make our material ideal for concave or convex shapes, corners, closures, column casing and other architectural details.

Excellent workability allows Armacoil™ HDP-HT to be screwed, drilled, riveted, trimmed and bent without damage to the material or painted surface.

Safety

Armacoil™ HDP-HT is certified in accordance with the latest EN 13501 non-combustibility standards.

Under international building regulations, only non-combustible materials may be used in buildings exceeding a height of approximately 20 meters. This requirement applies no matter the height for public facilities such as nurseries, schools, airports, hotels and hospitals.

With Armacoil™ HDP-HT receiving the highest A1 rating, this means it is suitable for use on any building of any height without restriction.

It has excellent non-smoking properties and because it is manufactured from just an aluminium substrate and HDP coating, it has excellent non drip properties.

Sustainability

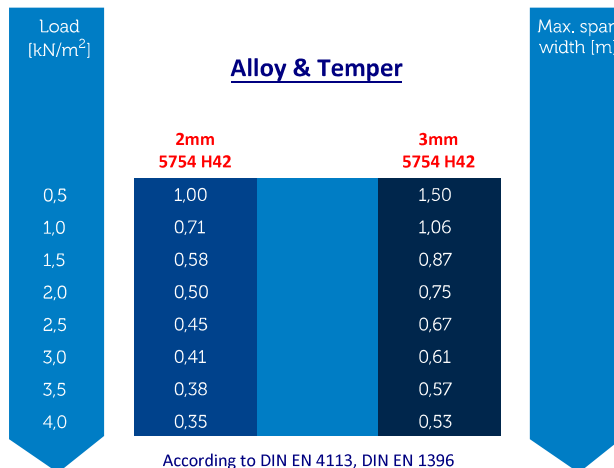
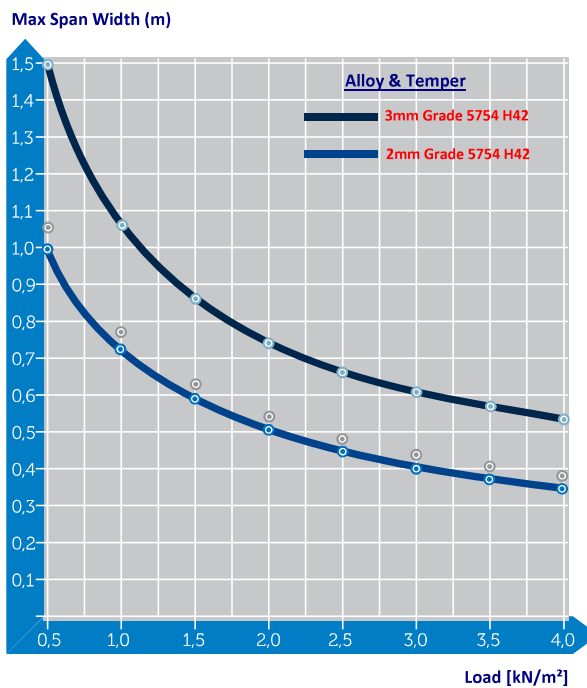
The coil coating process for APL Armacoil™ HDP-HT is environmentally friendly with all paints and lubricants processed in a closed material cycle. Non-hazardous pigments are used. This pre-painted aluminium is also free from heavy-metal erosion, is ground water neutral and can be recycled as a raw material without any loss in quality.



Structural Design Comparisons - 5754 vs 1050

Mechanical Properties									
Alloy & Temper	Specified Thickness (mm)		R _m MPa		R _{p0,2} MPa	Elongation min %	Bend Radius		Hardness HBW
	Over	Upto	Min	Max	Min	A _{50mm}	180°	90°	
5754 H42	1.5	3	220	270	130	10	2.0T	1.5T	63
1050 H42	1.5	3	85	125	55	6	0.5T	0.5T	27

*According to BS EN 485-2:2007



According to DIN EN 4113, DIN EN 1396

Who are Architectural Profiles?



- Specialists in complete NON-COMBUSTIBLE "through-wall" and "through-roof" systems
- Established for 40 years
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- Specified by the UK's leading architects
- Chosen by the UK's leading contractors and installers
- Provider of Cladshield - a 25-year fully-installed system warranty
- 55,000 sqft UK manufacturing facility
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& STANDING SEAM • SOFFITS • ARCHITECTURAL FLASHINGS • FLAT ROOFS DECKINGS



Non-combustible system 25 year fully installed system warranty v2

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and proud of it!

