



Armacoil™HDP & Armacoil™HDP-HT

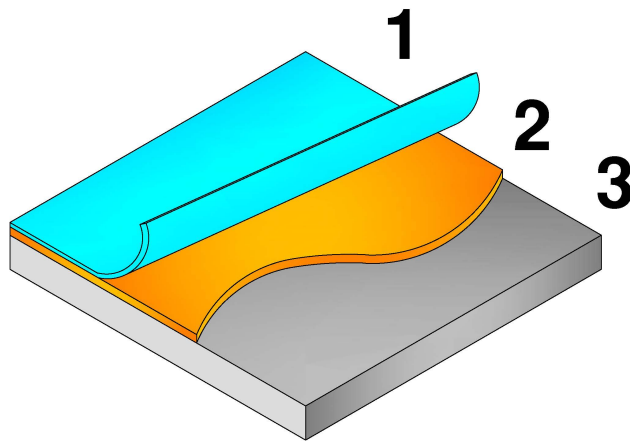


APA  
ARCHITECTURAL PROFILES



A1-Rated Non-Combustible  
Cladding Panels

# Material Composition & Performance



- 1) 80-micron thick strippable protective film as 1-layer or 2-layers
- 2) 3-Layer HDP coating system
- 3) 0.9mm, 2mm or 3mm aluminium substrate (3000 / 5000 series dependant on application)

Material Performance	
High weather-resistant HDP coating	Upto 25-year warranty* in marine environments
High strength, wide-span width, economical	Rigid and resistant to blows, breakages and pressure
Machineability	High bending, buckling and breaking strength

\*Subject to material specification + T&C's

Material Dimensions	
Thickness	0.9mm / 2mm / 3mm
Width	1000mm / 1250mm / 1500mm
Length	As Required*

\*Subject to minimum quantities + T&C's



# Fire Resistance & Technical Data

Armacoil™HDP & Armacoil™HDP-HT material provides one of the few truly 100% A1-rated as-coated non-combustible cladding panels when tested to EN13501-1. This provides product specification peace of mind to architects, insurers, contractors and building-owners.

Armacoil™HDP & Armacoil™HDP-HT panels are constructed from 100% aluminium and a 3-coat HDP coating system, with ZERO combustible materials ie NO polyethylene or polyisocyanurate (PIR). It has excellent non-smoking and non-drip properties. This combination makes it ideal for all applications and for buildings of any height, including those over 18m.

The fire resistance standards achieved with Armacoil™HDP & Armacoil™HDP-HT:

Test Standard	Result
EN13501-1	A1 / Non-Combustible

## Technical Data of Armacoil™HDP-HT Aluminium Substrate

Physical Property	Value
Weight @ 2mm thickness	5.4 KG/m <sup>3</sup>
Weight @ 3mm thickness	7.9 KG/m <sup>3</sup>
Density	2.63 g/cm <sup>3</sup>
Melting Range	605-650 °C
Thermal Expansion	23.8 x 10 <sup>-6</sup> /K
Allowable stress* @ 2mm thickness	96N/mm <sup>2</sup>
Allowable stress* @ 3mm thickness	96N/mm <sup>2</sup>
Modulus of Elasticity	70 GPa
Thermal Conductivity	138 W/m.K
Electrical Resistivity	0.0495 x 10 <sup>-5</sup> Ω.m
Tensile Strength	170 – 350 MPa
Proof Stress	130 Min MPa
Hardness Brinell	61 HB
Acoustic Insulation	Rw 27

\*According to DIN 4113



# Who are Architectural Profiles?



- Specialists in complete NON-COMBUSTIBLE "through-wall" and "through-roof" systems
- Established for 40 years
- All systems and constructions fire-tested and with CWCT testing
- 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
- Established members of the MCRMA & CWCT
- 150:9001 & 150:14001 registered

CUSTOM BESPOKE PANELS & PROFILES • STRONGBAK • MINERAL WOOL COMPOSITE ROOF & WALL PANELS  
LOUVRE PROFILE & LIVE LOUVRES • RAINSCREEN & FLAT PANELS • WALL & ROOF PROFILES • APL SNAPLOC  
& STANDING SEAM • SOFFITS • ARCHITECTURAL FLASHINGS • FLAT ROOFS DECKINGS



Non-combustible system 25 year fully installed system warranty



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35 years, all  
manufactured  
by us in the UK,  
and proud of it!

