# **Pyrotek**.

TECHNICAL DATA SHEET

519IP

## SUBDUE<sup>®</sup> NC

## non-combustible aluminium composite material

Subdue<sup>®</sup> NC is a fire safe aluminium composite material with a non-combustible mineral core that contains zero polyethylene.

Subdue<sup>®</sup> NC can be used as an exterior or interior cladding and roof coverings in both new buildings and re-clad applications wherever a non-combustible material is required.

Subdue<sup>®</sup> NC is Pyrotek branding for ALPOLIC<sup>™</sup> NC which is a registered trademark owned by Mitsubishi Chemical Infratec Co., Ltd used with permission for Pyrotek

#### SPECIFICATIONS

| Colour              | Standard colour is Milk White - other<br>colours available depending on MOQ<br>(See Colour Guide Below) |  |  |
|---------------------|---|--|--|
| Thickness           | 4 mm  |  |  |
| Width               | 1270, 1575 mm (tolerance; ± 2.0 mm)   |  |  |
| Bow Tolerance       | $\pm$ 0.5 % of the length or width  |  |  |
| Skin Thickness      | 0.5 mm  |  |  |
| Length              | 1800 - 7200 mm (tolerance; ± 1.0 mm/m)  |  |  |
| Diagonal difference | Max 5.0 mm  |  |  |



## applications

- Light-weight cladding
- Interior and exterior buildings
- Cabin wall linings

### features

- Excellent UV resistance
- Anti corrosion coating
- Easy to cut
- Superior rigidity
- Recyclable and environmentally friendly
- 20 year coating warranty
- Tested to AS 1530.1 and AS 1530.3



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### CHARACTERISTICS (for standard dimension)

|   |                        | Method           | Unit  |                             |
|---|------------------------|------------------|---|-----------------------------|
| Physical properties                               | Thickness              | -                | mm  | 4                           |
|   | Specific gravity       | -                | -   | 2.15                        |
|   | Weight                 | -                | kg/m²   | 8.6                         |
|   | Thermal expansion      | ASTM D696        | x10⁻6/°C  | 20.6                        |
|   | Thermal conductivity   | Calculated value | W/m-K   | 0.4                         |
|   | Deflection temperature | ISO 75-2         | °C  | 11.5                        |
| Mechanical<br>properties of<br>composite material | Tensile strength       | ASTM E8          | MPa, N/mm <sup>2</sup>  | 48.2                        |
|   | 0.2 % proof stress     | ASTM E8          | MPa, N/mm <sup>2</sup>  | 46.5                        |
|   | Elongation             | ASTM E8          | %   | 2.7                         |
|   | Flexural elasticity, E | ASTM C393        | GPa, kN/mm²   | 45.6                        |
|   |                        | AS 1530.1        | -   | Not deemed<br>combustible * |
|   | cladding material      | AS 1530.3        | Ignitability, flame<br>propagation, heat<br>and smoke release | 0, 0, 0, 0                  |
| Sound transmission loss                           |                        | ASTM E413        |   | 27                          |

\* AS 1530.1 is combustibility test of the core material

### Solid Colours

| M9010-G30<br>White  | M7770-G30<br>Off White  | M7747-G30<br>Castle White  | M7774-G30<br>Milk White  | M7814-G30<br>Clay Pink   | M7815-G30<br>Adobe Pink   | MB058-G30 👔<br>Mandarin Orange     | MB122-G30 👔<br>Orange               |
|---|---|--|--|--|---|------------------------------------|-------------------------------------|
|   |   |  |  |  |   |                                    |                                     |
| M3811-G30<br>Shell Tint   | M7758-G30<br>Sand Stone   | M0556-G30<br>Aluminum Gray   | M7776-G30<br>Monotone Slate  | MB117-G30 😰<br>Vermilion   | MBS09-G30 👔<br>Signal Red   | MB126-G30 P<br>Apple Red           | MB281-G30 😰<br>Cardinal Red         |
|   |   |  |  |  |   |                                    |                                     |
| MB055-G30<br>Mist Gray  | MJ524-G30<br>Slate Gray   | M7991-G30<br>Charcoal  | MJ062-G30<br>Black   | MB023-G30<br>Timber Brown  | MB022-G30 😰<br>Clay Brown   | M7798-G30 P<br>Maroon              | MJ808-G30 P<br>Sepia                |
| Metallic Col  | ours  |  |  |  |   |                                    |                                     |
| M9170-G30<br>Silver Metallic  | M7796-G30<br>Silver White Metallic  | M7723-G30<br>Silver Gray Metallic  | MB080-G30<br>Medium Gray Metallic  | M7813-G30<br>Gold Metallic   | M7790-G30<br>Copper Metallic  | M7817-G30<br>Light Bronze Metallic | M9221-G30<br>Medium Bronze Metallic |
|   |   |  |  |  |   |                                    |                                     |
| M9177-G30<br>Champagne Metallic   | M7976-G30<br>Champagne Gold Metallic  | M7744-G30<br>Pale Copper Metallic  | M7788-G30<br>Stainless Steel Metallic  | MB056-G30<br>Red Wood Metallic   | MB540-G30<br>Terracotta Metallic  | MB542-G30<br>Light Brown Metallic  | MBS07-G30<br>Brown Metallic         |
| For further inform<br>and contact deta<br>please visit our w<br>pyroteknc.com | nation<br>ilis,<br>rebsite<br>conclusions drawn<br>responsibility to de<br>presented by them<br>disclaims any liabil<br>information or of t<br>DISCLAIMER: This c | ions are subject to change with<br>turer and are indicative only. Ma<br>from acoustic ter sculls are are<br>anrufacturer. Due to the wide va<br>inducture. To proceed and the sources of the<br>he products, proceeds by Protest and<br>document is covered by Protest and | but notice. The data in this document<br>terials must be tested under intended<br>interpreted by qualified independent<br>duct for their project needs. Always sa<br>nety of individual projects. Pyrotek is<br>a loss as a result of reliance solely on<br>nent to which this information Page<br>trandard Disclaimer, Warranty and @ | is typical of average values based<br>service conditions to determine the<br>testing authorities. Nothing here ne<br>eek the opinion of your acoustic, m<br>not responsible for differing outcor<br>he information presented. No war<br>refers will not infringe any third par<br>Copyright Lauses. See protekncc. | on tests by independent laboratorie<br>eir suitability for purpose. The<br>eleases the purchaser/user from<br>echanical or fire engineer on data<br>nes from using their products. Pyrot<br>rany is made that the use of this<br>ray farms or rights. | 25<br>Steek                        | P                                   |