



TECHNICAL DATA SHEET

APL / TDS / 001 / Rev.10 | Date 18.07.2026



ALUCOPANEL® A2

EUROCLASS A2 - (s1,d0)

| Physical Properties                                                                    |                 |                           |                                                                                                                                               |                                         |            |
|----------------------------------------------------------------------------------------|-----------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------|
|                                                                                        | Test Standard   | Tolerance                 | Result                                                                                                                                        |                                         |            |
|                                                                                        |                 |                           | 4MM                                                                                                                                           | 6MM                                     |            |
| Panel Thickness                                                                        | ...             | (±) 0.2 mm                | 4.0 mm                                                                                                                                        | 6.0 mm                                  |            |
| Weight of the Panel                                                                    | ...             | ± 0.5 kg/m²               | 8.2 kg/m²                                                                                                                                     | 12.0 kg/m²                              |            |
| Standard Width                                                                         | ...             | (±) 2 mm                  | 1000, 1250, 1500, up to 2000 mm                                                                                                               |                                         |            |
| Length                                                                                 | ...             | (±) 2 mm                  | up to 6000 mm<br>Max. 8000 mm                                                                                                                 |                                         |            |
| Skin Thickness                                                                         | ...             | (±) 0.02 mm               | 0.50 mm                                                                                                                                       |                                         |            |
| Fire Performance                                                                       |                 |                           |                                                                                                                                               |                                         |            |
|                                                                                        | Test Standard   | Requirement               | Result / Certificate Ref. No.                                                                                                                 |                                         |            |
|                                                                                        |                 |                           | 4MM                                                                                                                                           | 6MM                                     |            |
| Reaction to Fire                                                                       | EN 13501-1      | Class A2, s1, d0          | TBW 0300135                                                                                                                                   |                                         |            |
| Surface Burning Characteristics                                                        | ASTM E84        | (FSI) 25-0<br>(SDI) 450-0 | FSI 15, SDI 15<br>Class A                                                                                                                     | FSI 15, SDI 30<br>Class A               |            |
| Self Ignition Temperature (ACP)                                                        | ASTM D 1929     | Not less than 343°C       | SIT (842°F) 450°C,<br>FIT (842°F) 450°C                                                                                                       | SIT (842°F) 450°C,<br>FIT (842°F) 450°C |            |
| Self Ignition Temperature (CORE)                                                       |                 |                           | SIT (950°F) 510°C,<br>FIT (950°F) 510°C                                                                                                       | SIT (950°F) 510°C,<br>FIT (950°F) 510°C |            |
| Non-Loadbearing Ventilated Façade System                                               | BS 8414-1       | As per standard           | TBW0300140                                                                                                                                    |                                         |            |
| Exterior Non-Load Bearing Wall Cladding Assemblies                                     | NFPA 285        | As per standard           | TBW                                                                                                                                           | CAVITY (mm)                             | TBW0300224 |
|                                                                                        |                 |                           | TBW0300140                                                                                                                                    | 125                                     |            |
|                                                                                        |                 |                           | TBW0300148                                                                                                                                    | 75                                      |            |
|                                                                                        |                 |                           | TBW0300204                                                                                                                                    | 100                                     |            |
|                                                                                        |                 |                           | TBW0300224                                                                                                                                    | 75                                      |            |
|                                                                                        |                 |                           | TBW0300560                                                                                                                                    | 250                                     |            |
|                                                                                        |                 |                           | TBW0300620                                                                                                                                    | 280                                     |            |
|                                                                                        |                 |                           | TBW0300649                                                                                                                                    | 300                                     |            |
|                                                                                        |                 |                           | ESL-25-11883                                                                                                                                  | 730                                     |            |
|                                                                                        |                 |                           | ESL-25-11950                                                                                                                                  | 840                                     |            |
| Roof Covering Assembly (0-10° from the horizontal plane)                               | EN 13501-5:2016 | B <sub>ROOF</sub> (t4)    | TBW0300648<br>without any packing material on steel structure with 40 cm Void ideal for canopies and feature.                                 | -                                       |            |
| Roof Covering Assembly with Mineral Wool Insulation (10-70° from the horizontal plane) | EN 13501-5:2016 | B <sub>ROOF</sub> (t4)    | TBW0300738<br>With thermal insulation fixed direct at rear face of ACP, on Alum structure with 300mm Void ideal for Continuous Roof Covering. | -                                       |            |



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| Fire Performance                                             |                 |                                     |                                                                                                                       |                   |
|--------------------------------------------------------------|-----------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| Test Standard                                                |                 | Requirement                         | Result                                                                                                                |                   |
|                                                              |                 |                                     | 4MM                                                                                                                   | 6MM               |
| Roof Covering Assembly<br>(10-70° from the horizontal plane) | EN 13501-5:2016 | B <sub>ROOF</sub> (t4)              | TBW0300739<br>without any packing<br>material on Alum structure<br>with 300mm Void ideal for<br>canopies and feature. | -                 |
| Coil Specification                                           |                 |                                     |                                                                                                                       |                   |
| Test Standard                                                |                 | Requirement                         | Result                                                                                                                |                   |
|                                                              |                 |                                     | 4MM & 6MM                                                                                                             |                   |
| Alloy / Temper                                               | ASTM B209       | ...                                 | 3105 - H16                                                                                                            | 5005 - H16        |
| Tensile Strength                                             | ASTM E8         | 172 - 221 N/mm²                     | 196 N/mm²                                                                                                             | 188 N/mm²         |
| Yield Strength                                               | ASTM E8         | Min. 145 N/mm²                      | 190 N/mm²                                                                                                             | 183 N/mm²         |
| Elongation                                                   | ASTM E8         | Min. 1.0 %                          | 4.2 %                                                                                                                 | 3.3 %             |
| Modulus of Elasticity                                        | ASTM E111       | Measure Value                       | 69 Gpa                                                                                                                |                   |
| Mechanical Properties                                        |                 |                                     |                                                                                                                       |                   |
|                                                              | Test Standard   | Requirement                         | Result                                                                                                                |                   |
|                                                              |                 |                                     | 4MM                                                                                                                   | 6MM               |
| Peel off Strength @ 180°                                     | ASTM D903       | 10 kg/ 25mm                         | 15.84 kg/25mm                                                                                                         | 23.2 kg/25mm      |
| Climbing Drum Peel                                           | ASTM D1781      | Measure Value                       | 20.6 kg/25mm                                                                                                          | 20.6 kg/25mm      |
| Shear Strength                                               | ASTM C 273      | 3.2MPa                              | 3.25 MPa                                                                                                              | 3.27 MPa          |
| Tensile Strength                                             | ASTM E8         | > 35 MPa for 4mm<br>>25 MPa for 6mm | 41.23 MPa                                                                                                             | 29.83 MPa         |
| 0.2% Proof Stress                                            | ASTM E8         | Measure Value                       | 49.0 Mpa                                                                                                              | 35.0 Mpa          |
| Punch Shear Test                                             | ASTM D 732      | 20 MPa                              | 22.23 MPa                                                                                                             | 20.87 MPa         |
| Modulus of Elasticity                                        | ASTM C393       | Measure Value                       | 22,800 Mpa                                                                                                            | 22,800 Mpa        |
| Flexural Strength                                            | ASTM D790-17    | Measure Value                       | 106.1 Mpa                                                                                                             | 106.1 Mpa         |
| Thermal Properties                                           |                 |                                     |                                                                                                                       |                   |
|                                                              | Test Standard   | Requirement                         | Result                                                                                                                |                   |
|                                                              |                 |                                     | 4MM                                                                                                                   | 6MM               |
| Deflection Temperature                                       | ASTM D 648      | 100°C                               | 250°C                                                                                                                 | 250°C             |
| Linear Thermal Expansion per 100°C                           | ASTM D 696      | 2.40 mm/m/ °C                       | 2.40 mm/m/ °C                                                                                                         | 2.47 mm/m/ °C     |
| Linear Thermal Expansion Coefficient                         |                 | Measure Value                       | 0.024 mm/ (m °C)                                                                                                      | 0.0247 mm/ (m °C) |
| Thermal Conductivity                                         | ASTM C 518      | Measure Value                       | 0.11 W/mK                                                                                                             | 0.10 W/Mk         |



TECHNICAL DATA SHEET

APL / TDS / 001 / Rev.10 | Date 18.07.2026



ALUCOPANEL® A2

EUROCLASS A2 - (s1,d0)

| ACOUSTICAL PROPERTIES                                                            |                                                      |                                                                                                     |                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                  | TEST STANDARD                                        | REQUIREMENT                                                                                         | RESULT                                                                                                                                                                                                  |
|                                                                                  |                                                      |                                                                                                     | 4MM6MM                                                                                                                                                                                                  |
| Sound Transmission Class                                                         | ASTM E413                                            | ...                                                                                                 | STC 19                                                                                                                                                                                                  |
| COATING PROPERTIES AND PERFORMANCE (TOP COAT)                                    |                                                      |                                                                                                     |                                                                                                                                                                                                         |
|                                                                                  | TEST STANDARD                                        | REQUIREMENT                                                                                         | RESULT                                                                                                                                                                                                  |
|                                                                                  |                                                      |                                                                                                     | 4MM6MM                                                                                                                                                                                                  |
| Coating Thickness                                                                | ASTM D 1400                                          | ≥ 25µm                                                                                              | ≥ 25µm                                                                                                                                                                                                  |
| Weathering Resistance                                                            | ASTM C 481                                           | A. Shear Strength<br>B. Film Adhesion<br>C. Impact Resistance                                       | A. 3.20 Mpa (after exposure)<br>B.1.Dry Adhesion - No removal of film<br>B.2. Wet Adhesion - No removal of film<br>B.3. Boiling Water - No removal of film<br>C. Impact Resistance - No removal of film |
| Corrosion Resistance<br>(Humidity Resistance<br>& Salt Spray)                    | AAMA 2605<br>ASTM D 2247<br>ASTM D 714<br>ASTM B 117 | A. Humidity Resistance<br>(@4000 hours exposure)<br>B. Salt Spray Resistance<br>(@4000 hours, 35°C) | A. No formation of blisters<br>B.1 Scribed - rating of 9<br>B.2. Unscribed - rating of 10                                                                                                               |
| Chemical Resistance                                                              | ISO 2812 -1: 2014                                    | A. Acid Resistance<br>B. Alkali Resistance<br>C. Oil Resistance<br>D. Solvent Resistance            | A. NO CHANGE<br>B. NO CHANGE<br>C. NO CHANGE<br>D. NO CHANGE                                                                                                                                            |
| Abrasion Resistance                                                              | ASTM D 968                                           | ≥ 50 L/mil                                                                                          | 52.1 L/mil                                                                                                                                                                                              |
| T-Bend Test                                                                      | ASTM D 522                                           | 2T (No Cracks)                                                                                      | 2T (No Cracks)                                                                                                                                                                                          |
| Pencil Hardness                                                                  | ASTM D 3363                                          | ≥ H                                                                                                 | ≥ H                                                                                                                                                                                                     |
| Film Adhesion<br>DRY (@27 °C)<br>WET (@38 °C, 24hrs)<br>BOILING (@100 °C, 20hrs) | AAMA 2605<br>(Clause 7.4)                            | No removal of film                                                                                  | No removal of film within or outside<br>of the cross- hatched area;<br>No blistering was observed                                                                                                       |
| Impact Resistance Test 50 kg-cm                                                  | AAMA 2605<br>(Clause 7.5)                            | No removal of film                                                                                  | No removal of film                                                                                                                                                                                      |
| REMARK: Coating Performance results are complying with AAMA 2605-13 Requirements |                                                      |                                                                                                     |                                                                                                                                                                                                         |



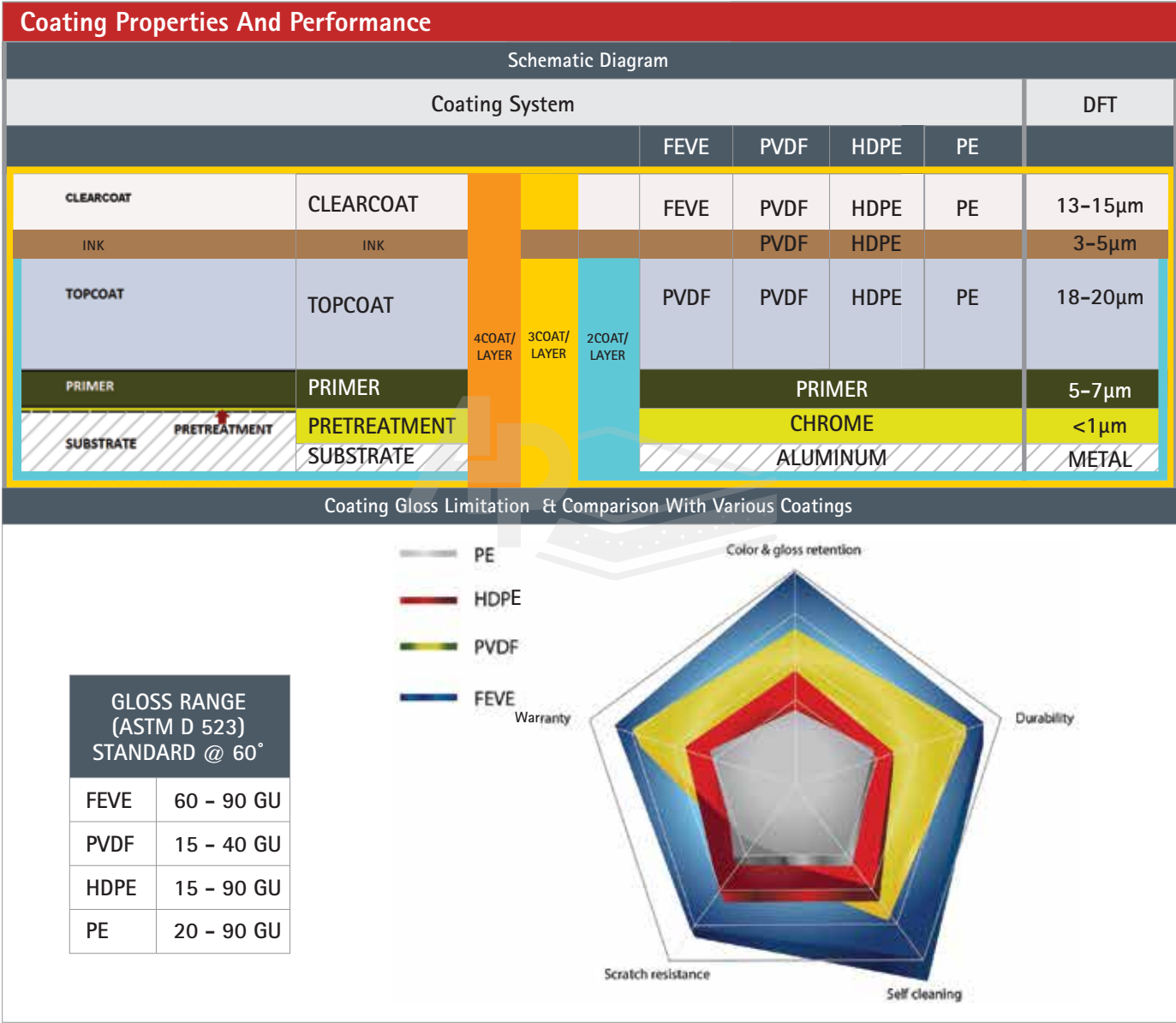
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| Coating Properties And Performance (Bottom/Service Coat) |                            |                             |           |
|----------------------------------------------------------|----------------------------|-----------------------------|-----------|
|                                                          | Test Standard              | Requirement                 | Result    |
| Dry Film Thickness                                       | ASTM D 7091                | 5-7 µm                      | 6 µm      |
| Coating Flexibility T-bend Test                          | ASTM D 4145                | 2T                          | 2T        |
| Solvent Resistance Test                                  | ASTM D 4752                | Bearable @ 50X Rubbing      | > 50 DR   |
| Film Adhesion Test by Crosshatch                         | AAMA 2605; ASTM D3359-09e2 | No Removal of Paint         | PASSED    |
| Film Adhesion Test by Boiling Water                      | AAMA 2605                  | No Removal of Paint         | PASSED    |
| Backside Printing Information & Direction                |                            | As per Material Description | PASSED    |
| Coating type                                             |                            |                             | Polyester |

Important Note: Backside of the panels are pre-coated and may come in different colors to embellish the surface Appearance because the back of the cladding is not meant for display purposes.



REPORTS ARE BASED ON THE AVERAGE ANALYSIS RESULT