

## TECHNICAL DATASHEET

| THICKNESSES AND WEIGHT                                        |           |                                               |        |        |        |
|---------------------------------------------------------------|-----------|-----------------------------------------------|--------|--------|--------|
| Panel thickness                                               | mm        | 2                                             | 3      | 4      | 6      |
| Thickness of cover layer                                      | mm        | 0.3                                           |        |        |        |
| Weight                                                        | [kg/m²]   | 2.9                                           | 3.8    | 4.7    | 6.6    |
| TECHNOLOGICAL VALUES                                          |           |                                               |        |        |        |
| Section modulus W                                             | [cm³/m]   | 0.5                                           | 0.8    | 1.1    | 1.7    |
| Rigidity E·I                                                  | [kNcm²/m] | 345                                           | 865    | 1620   | 3840   |
| Modulus of elasticity                                         | [N/mm²]   | 70'000                                        |        |        |        |
| Tensile strength of the aluminium cover sheets R <sub>m</sub> | [N/mm²]   | 145 - 185                                     |        |        |        |
| Yield strength R <sub>p0,2</sub> (0,2%)                       | [N/mm²]   | 110 - 175                                     |        |        |        |
| Elongation A50                                                | %         | ≥ 3                                           |        |        |        |
| Linear thermal expansion                                      |           | 2.4 mm/m at a temperature difference of 100°C |        |        |        |
| CORE                                                          |           |                                               |        |        |        |
| Polyethylene, Type LDPE                                       | g/cm³     | 0.9                                           |        |        |        |
| SURFACE                                                       |           |                                               |        |        |        |
| Lacquering                                                    |           | Modified polyester coating or mill finish     |        |        |        |
| Gloss (Initial value)                                         | %         | 30 - 85                                       |        |        |        |
| Hardness (pencil hardness)                                    |           | HB - F                                        |        |        |        |
| ACOUSTICAL PROPERTIES                                         |           |                                               |        |        |        |
| Schallabsorptionsgrad α <sub>s</sub>                          |           | 0.05                                          |        |        |        |
| Sound transmission loss R <sub>w</sub>                        | dB        | 23                                            | 24     | 25     | 26     |
| Loss factor d                                                 |           | 0.0048                                        | 0.0057 | 0.0072 | 0.0102 |
| THERMAL PROPERTIES                                            |           |                                               |        |        |        |
| Thermal resistance R                                          | m²K/W     | 0.0047                                        | 0.0080 | 0.0113 | 0.0180 |
| Heat transition coefficient U                                 | W/m²K     | 5.72                                          | 5.61   | 5.50   | 5.30   |
| Range of thermal application                                  | [°C]      | -50...+80                                     |        |        |        |

Note: The technical indications above are typical values.  
The effectively measured values are subject to minor deviations due to the production process.