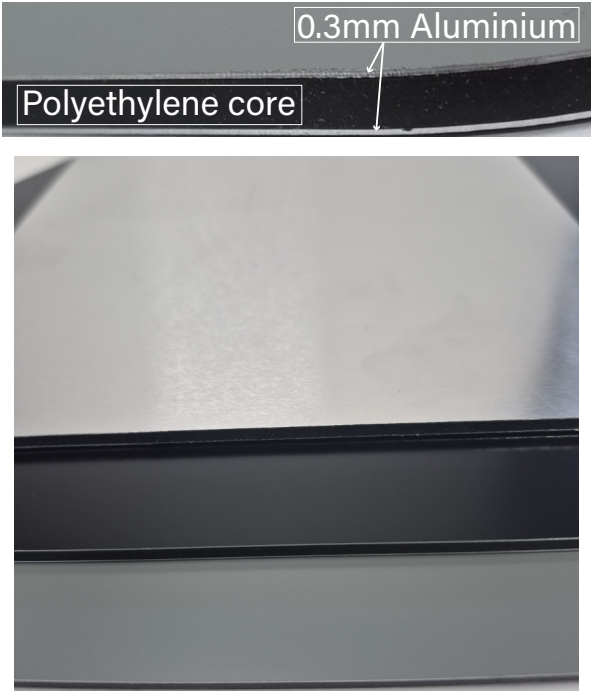


# Our 3mm Composite Aluminium Substrate is an excellent alternative to 3mm 11swg Aluminium and has swiftly become the preference for UK highway signage.

With its polyethylene core sandwiched between two 0.3mm thick aluminium sheets, it is significantly lighter than standard aluminium making the signs easier to transport, handle and install, especially with larger signs.

The composite material is resistant to rust and corrosion, making them ideal for outdoor installations whilst also providing a high resistance to impact, twisting and extreme weather conditions. It is also available in Traffic Grey, Traffic Black or Plain Mill finishes (traffic grey standard).

Due to the minimal amount of aluminium used, the signs will have a close to zero scrap value, significantly minimising the risk of theft.



Key Features:

- Cost effective alternative to aluminium
- Rust and corrosion resistant
- Lightweight making them easier to handle
- Reduced theft risk for scrap metal
- Can be drilled with ease (if required)
- Material can expand and contract slightly in extreme conditions

| Item                          | Description                              |
|-------------------------------|------------------------------------------|
| Thickness                     | 3mm                                      |
| Composition                   | Polyethylene core and 0.3mm aluminium    |
| Weight                        | 3.8 Kg/m <sup>2</sup>                    |
| Rigidity                      | 865 kNcm <sup>2</sup> /m                 |
| Modulus of Elasticity         | 70,000 N/mm <sup>2</sup>                 |
| Tensile Strength of Aluminium | Rm: 145-185 N/mm <sup>2</sup>            |
| 0.2% Proof Stress             | Rp0.2 ≥ 100 N/mm <sup>2</sup>            |
| Linear Thermal Expansion      | 2.4 mm/m at 100°C temperature difference |
| Temperature Range             | From -50°C to +80°C                      |
| Polyethylene Type LPDE        | 0.93 g/cm <sup>3</sup>                   |
| Standards                     | ISO 9001<br>BS EN 12899                  |