

GRP TRAFFIC & ROAD SAFETY PRODUCTS · TECHNICAL DOCUMENT

## GRP sign-board paneling profile

The GRP sign paneling profile is used to build the panel of the information signs that guide traffic on the road network. Profiles 20, 30 and 60 cm high join one above the other with a tongue-and-groove joint; the required sign size is built from these profiles and the reflective sheeting is bonded on top. GRP resists corrosion and is used with confidence where temperature swings are large; being light, it is easy to transport and install.

### TECHNICAL SUMMARY

#### Profile

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Profile height        | 20 · 30 · 60 cm                                             |
| 30 cm profile section | 300 mm module (305.5 mm with the tongue), 19 mm deep        |
| Joint                 | Tongue and groove, profiles stacked one above the other     |
| Back face             | Mounting channels; on the 30 cm profile at 75 · 150 · 75 mm |
| Sign face             | Reflective sheeting is bonded on top                        |

### TYPE TESTS

| Test                                            | Method                | Value                                     | Test condition                   |
|-------------------------------------------------|-----------------------|-------------------------------------------|----------------------------------|
| Full-section test                               | EN 13706-2<br>Annex D | E23: 23 GPa · E17:<br>17 GPa              | Modulus of the profile grade     |
| Tensile modulus,<br>lengthwise / crosswise      | EN ISO 527-4          | E23: 23 / 7 GPa ·<br>E17: 17 / 5 GPa      | On a sample cut from the profile |
| Tensile strength,<br>lengthwise / crosswise     | EN ISO 527-4          | E23: 240 / 50 MPa ·<br>E17: 170 / 30 MPa  | On a sample cut from the profile |
| Pin-bearing strength,<br>lengthwise / crosswise | EN 13706-2<br>Annex E | E23: 150 / 70 MPa ·<br>E17: 90 / 50 MPa   | Bearing strength around a hole   |
| Flexural strength,<br>lengthwise / crosswise    | EN ISO 14125          | E23: 240 / 100 MPa ·<br>E17: 170 / 70 MPa | Three-point bending              |
| Interlaminar shear<br>strength                  | EN ISO 14130          | E23: 25 MPa · E17:<br>15 MPa              | Short-beam test, lengthwise      |

### WHERE IT IS USED

Direction and information signs. Panels of the signs that guide traffic on the road network