

DATA SHEET FOR FILON CE24E, CE24, OP24E AND OP24 FILON FIRE GRADE 300

December 2023

Sheet Specification

Sheet Type (Note that suffix E denotes a film protected sheet):

Filon CE24, CE24E (light transmitting), OP24 and OP24E (no or minimal light transmission), to match the required profile

Colour, CE24(E):

Natural translucent (no colour), or coloured tint as specified

Colour, OP24(E):

Any BS or RAL colour

Finish:

UV absorbing protective film to the external face and a protective coating to the internal face as required, CE24E and OP24E only

Structural and Mechanical - Typical Values

Nominal Thickness:

1.3mm

Nominal Sheet Weight Based on a Standard 32/1000 Profile:

2.4kg/m²

Tensile Strength:

143N/mm²

Tensile Modulus:

9.33kN/mm²

Flexural Strength:

354N/mm²

Flexural Modulus:

11.3kN/mm²

Average Glass Content:

35%

Barcol Hardness:

50

Physical Properties - Typical Values

Thermal Conductivity (K):

0.15W/m°C

Thermal Transmittance (U):

5.7W/m²K

Thermal Movement, Coefficient of Linear Expansion:

25 x 10⁻⁶ per °C

Constant Operating Temperatures:

-20°C to +80°C

Liquids:

Water absorption 0.25% after 24 hours at 20°C

Biological:

Resistant to micro-organisms, fungi, larvae, insects

Compatibility:

No chemical reaction with other construction materials

Natural Translucent CE24E Sheets Only

Light Transmission:

0.79

G Value:

0.75

Fire Properties

Filon Grade 300: B_{ROOF} (t4) to EN 13501 Part 5. SAB to BS 476 Part 3. Class 3 to BS 476 Part 7.

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