



2812

Steadman & Son

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2812-CPR-PA0002

EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 40mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HBP50µm, Mass: 10.06 Kg/m

[Group CE2001]

Roofs

External Walls

Thermal Transmittance:

0.50 W/m²K

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Mechanical Resistance:

Tensile Strength:

0.065 Mpa

0.065 Mpa

Shear Strength:

0.12 Mpa

0.12 Mpa

Reduced long term shear strength:

Shear modulus (core):

2.5 Mpa

2.5 Mpa

Compressive strength (core):

0.09 Mpa

0.09 Mpa

Creep coefficient t = 2000 h

0.8

t = 100000 h

1.32

Bending resistance in the span:

- +ve bending:

3.97 kNm/m

3.97 kNm/m

- +ve bending, elevated temperature

3.53 kNm/m

3.53 kNm/m

- -ve bending:

3.27 kNm/m

3.27 kNm/m

- -ve bending, elevated temperature

2.91 kNm/m

2.91 kNm/m

Bending resistance at an internal support:

- +ve bending:

2.35 kNm/m

2.35 kNm/m

- +ve bending, elevated temperature

2.09 kNm/m

2.09 kNm/m

- -ve bending:

2.93 kNm/m

2.93 kNm/m

- -ve bending, elevated temperature

2.60 kNm/m

2.60 kNm/m

Wrinkling Stress (external face):

- in span

280 MPa

280 MPa

- in span, elevated temperature

280 MPa

280 MPa

- at central support:

224 MPa

224 MPa

- at central support, elevated temperature

199 MPa

199 MPa

Wrinkling Stress (internal face):

- in span

155 MPa

155 MPa

- at central support:

139 MPa

139 MPa

Reaction to fire - with steel flashing details:

B-s2, d0

B-s2, d0

External fire performance:

Broof (t4)

Water permeability:

NPD

NPD

Water vapour permeability:

Impermeable

Impermeable

Airborne sound insulation:

Rw(C:Ctr)>22

Rw(C:Ctr)>22