



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: 110mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 12.86 Kg/m

[Group CE2059]

Roofs

External Walls

Thermal Transmittance:

0.18 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):

2.00 Mpa

2.00 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:

9.96 kNm/m

9.96 kNm/m

- +ve bending, elevated temperature

8.86 kNm/m

8.86 kNm/m

- -ve bending:

9.27 kNm/m

9.27 kNm/m

- -ve bending, elevated temperature

8.25 kNm/m

8.25 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.64 kNm/m

5.64 kNm/m

- +ve bending, elevated temperature

5.02 kNm/m

5.02 kNm/m

- -ve bending:

4.64 kNm/m

4.64 kNm/m

- -ve bending, elevated temperature

4.13 kNm/m

4.13 kNm/m

Wrinkling Stress (external face):

- in span

243 MPa

243 MPa

- in span, elevated temperature

231 MPa

231 MPa

- at central support:

175 MPa

175 MPa

- at central support, elevated temperature

155 MPa

155 MPa

Wrinkling Stress (internal face):

- in span

198 MPa

198 MPa

- at central support:

102 MPa

102 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