



2812

Steadman & Son

Warnell, Welton, Carlisle, Cumbria CA5 7HH

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2812-CPR-PA0002

EN14509

**Metal faced insulating panel for use in buildings**

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m<sup>3</sup>, Thickness: 110mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HPVC(P)200µm, Mass: 12.86 Kg/m

[Group CE2062]

**Roofs**

**External Walls**

**Thermal Transmittance:**

0.18 W/m<sup>2</sup>K

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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