



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/m<sup>3</sup>, Thickness: 80mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HPVC(P)200µm, Mass: 11.62 Kg/m

**[Group CE2017]**

**Roofs**

**External Walls**

**Thermal Transmittance:**

0.25 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):

2.5 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:

10.53 kNm/m

10.53 kNm/m

- +ve bending, elevated temperature

9.37 kNm/m

9.37 kNm/m

- -ve bending:

6.26 kNm/m

6.26 kNm/m

- -ve bending, elevated temperature

5.57 kNm/m

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**Bending resistance at an internal support:**

- +ve bending:

4.96 kNm/m

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- +ve bending, elevated temperature

4.41 kNm/m

4.41 kNm/m

- -ve bending:

3.68 kNm/m

3.68 kNm/m

- -ve bending, elevated temperature

3.27 kNm/m

3.27 kNm/m

**Wrinkling Stress (external face):**

- in span

280 MPa

280 MPa

- in span, elevated temperature

280 MPa

280 MPa

- at central support:

219 MPa

219 MPa

- at central support, elevated temperature

194 MPa

194 MPa

**Wrinkling Stress (internal face):**

- in span

179 MPa

179 MPa

- at central support:

106 MPa

106 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