



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: 40mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: Prisma, Mass: 10.06 Kg/m

**[Group CE2071]**

**Roofs**

**External Walls**

**Thermal Transmittance:**

0.50 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:

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