



2812

Steadman & Son

Warnell, Welton, Carlisle, Cumbria CA5 7HH

20

2812-CPR-PA0002

EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 60mm, Facings: Steel 0.7mm external, 0.4mm internal, Coating: SP25µm, Mass: 12.65 Kg/m

[Group CE2031]

Roofs

External Walls

Thermal Transmittance:

0.35 W/m²K

0.35 W/m²K

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:

7.25 kNm/m

7.25 kNm/m

- +ve bending, elevated temperature

6.45 kNm/m

6.45 kNm/m

- -ve bending:

4.77 kNm/m

4.77 kNm/m

- -ve bending, elevated temperature

4.24 kNm/m

4.24 kNm/m

Bending resistance at an internal support:

- +ve bending:

3.66 kNm/m

3.66 kNm/m

- +ve bending, elevated temperature

3.25 kNm/m

3.25 kNm/m

- -ve bending:

3.31 kNm/m

3.31 kNm/m

- -ve bending, elevated temperature

2.94 kNm/m

2.94 kNm/m

Wrinkling Stress (external face):

- in span

280 MPa

280 MPa

- in span, elevated temperature

280 MPa

280 MPa

- at central support:

222 MPa

222 MPa

- at central support, elevated temperature

197 MPa

197 MPa

Wrinkling Stress (internal face):

- in span

167 MPa

167 MPa

- at central support:

122 MPa

122 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