



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: 40mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HBP50µm, Mass: 10.06 Kg/m

[Group CE2001]

Roofs

External Walls

Thermal Transmittance:

0.50 W/m²K

0.50 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:

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



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Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 40mm, Facings: Steel 0.7mm external, 0.4mm internal, Coating: HBP50µm, Mass: 11.98 Kg/m

[Group CE2002]

Roofs

External Walls

Thermal Transmittance:

0.50 W/m²K

0.50 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:

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



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Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 40mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 10.06 Kg/m

[Group CE2003]

Roofs

External Walls

Thermal Transmittance:

0.50 W/m²K

0.50 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:

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



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Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 40mm, Facings: Steel 0.7mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 11.98 Kg/m

[Group CE2004]

Roofs

External Walls

Thermal Transmittance:

0.50 W/m²K

0.50 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:

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



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Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 40mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: SP25µm, Mass: 10.06 Kg/m

[Group CE2005]

Roofs

External Walls

Thermal Transmittance:

0.50 W/m²K

0.50 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:

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



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Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 40mm, Facings: Steel 0.7mm external, 0.4mm internal, Coating: SP25µm, Mass: 11.98 Kg/m

[Group CE2006]

Roofs

External Walls

Thermal Transmittance:

0.50 W/m²K

0.50 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:

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



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EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 40mm, Facings: Steel 0.7mm external, 0.4mm internal, Coating: HPVC(P)200µm, Mass: 11.98 Kg/m

[Group CE2007]

Roofs

External Walls

Thermal Transmittance:

0.50 W/m²K

0.50 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:

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



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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: 60mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HBP50µm, Mass: 10.74 Kg/m

[Group CE2008]

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



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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: 60mm, Facings: Steel 0.7mm external, 0.4mm internal, Coating: HBP50µm, Mass: 12.65 Kg/m

[Group CE2009]

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



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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: 60mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 10.74 Kg/m

[Group CE2010]

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



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: 80mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 13.53 Kg/m

[Group CE2011]

Roofs

External Walls

Thermal Transmittance:

0.25 W/m²K

0.25 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:

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

5.57 kNm/m

Bending resistance at an internal support:

- +ve bending:

4.96 kNm/m

4.96 kNm/m

- +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



2812

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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: 80mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: SP25µm, Mass: 11.62 Kg/m

[Group CE2012]

Roofs

External Walls

Thermal Transmittance:

0.25 W/m²K

0.25 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:

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

5.57 kNm/m

Bending resistance at an internal support:

- +ve bending:

4.96 kNm/m

4.96 kNm/m

- +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



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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: 80mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: SP25µm, Mass: 13.53 Kg/m

[Group CE2013]

Roofs

External Walls

Thermal Transmittance:

0.25 W/m²K

0.25 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:

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

5.57 kNm/m

Bending resistance at an internal support:

- +ve bending:

4.96 kNm/m

4.96 kNm/m

- +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



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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: 80mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVDF25µm, Mass: 13.53 Kg/m

[Group CE2014]

Roofs

External Walls

Thermal Transmittance:

0.25 W/m²K

0.25 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:

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

5.57 kNm/m

Bending resistance at an internal support:

- +ve bending:

4.96 kNm/m

4.96 kNm/m

- +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



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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: 60mm, Facings: Steel 0.7mm external, 0.4mm internal, Coating: Prisma, Mass: 12.65 Kg/m

[Group CE2015]

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



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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: 60mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: SP25µm, Mass: 10.74 Kg/m

[Group CE2016]

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



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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: 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/m²K

0.25 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:

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

5.57 kNm/m

Bending resistance at an internal support:

- +ve bending:

4.96 kNm/m

4.96 kNm/m

- +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



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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: 80mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HPVC(P)200µm, Mass: 13.53 Kg/m

[Group CE2018]

Roofs

External Walls

Thermal Transmittance:

0.25 W/m²K

0.25 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:

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

5.57 kNm/m

Bending resistance at an internal support:

- +ve bending:

4.96 kNm/m

4.96 kNm/m

- +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



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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: 100mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HBP50µm, Mass: 12.38 Kg/m

[Group CE2020]

Roofs

External Walls

Thermal Transmittance:

0.20 W/m²K

0.20 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:

10.15 kNm/m

10.15 kNm/m

- +ve bending, elevated temperature

9.03 kNm/m

9.03 kNm/m

- -ve bending:

8.27 kNm/m

8.27 kNm/m

- -ve bending, elevated temperature

7.36 kNm/m

7.36 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.41 kNm/m

5.41 kNm/m

- +ve bending, elevated temperature

4.81 kNm/m

4.81 kNm/m

- -ve bending:

4.32 kNm/m

4.32 kNm/m

- -ve bending, elevated temperature

3.84 kNm/m

3.84 kNm/m

Wrinkling Stress (external face):

- in span

255 MPa

255 MPa

- in span, elevated temperature

247 MPa

247 MPa

- at central support:

190 MPa

190 MPa

- at central support, elevated temperature

168 MPa

168 MPa

Wrinkling Stress (internal face):

- in span

192 MPa

192 MPa

- at central support:

104 MPa

104 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



2812

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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: 100mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HBP50µm, Mass: 14.29 Kg/m

[Group CE2021]

Roofs

External Walls

Thermal Transmittance:

0.20 W/m²K

0.20 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:

10.15 kNm/m

10.15 kNm/m

- +ve bending, elevated temperature

9.03 kNm/m

9.03 kNm/m

- -ve bending:

8.27 kNm/m

8.27 kNm/m

- -ve bending, elevated temperature

7.36 kNm/m

7.36 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.41 kNm/m

5.41 kNm/m

- +ve bending, elevated temperature

4.81 kNm/m

4.81 kNm/m

- -ve bending:

4.32 kNm/m

4.32 kNm/m

- -ve bending, elevated temperature

3.84 kNm/m

3.84 kNm/m

Wrinkling Stress (external face):

- in span

255 MPa

255 MPa

- in span, elevated temperature

247 MPa

247 MPa

- at central support:

190 MPa

190 MPa

- at central support, elevated temperature

168 MPa

168 MPa

Wrinkling Stress (internal face):

- in span

192 MPa

192 MPa

- at central support:

104 MPa

104 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



2812

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20

2812-CPR-PA0002

EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 100mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 12.38 Kg/m

[Group CE2022]

Roofs

External Walls

Thermal Transmittance:

0.20 W/m²K

0.20 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:

10.15 kNm/m

10.15 kNm/m

- +ve bending, elevated temperature

9.03 kNm/m

9.03 kNm/m

- -ve bending:

8.27 kNm/m

8.27 kNm/m

- -ve bending, elevated temperature

7.36 kNm/m

7.36 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.41 kNm/m

5.41 kNm/m

- +ve bending, elevated temperature

4.81 kNm/m

4.81 kNm/m

- -ve bending:

4.32 kNm/m

4.32 kNm/m

- -ve bending, elevated temperature

3.84 kNm/m

3.84 kNm/m

Wrinkling Stress (external face):

- in span

255 MPa

255 MPa

- in span, elevated temperature

247 MPa

247 MPa

- at central support:

190 MPa

190 MPa

- at central support, elevated temperature

168 MPa

168 MPa

Wrinkling Stress (internal face):

- in span

192 MPa

192 MPa

- at central support:

104 MPa

104 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



2812

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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: 100mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HPVC(P)200µm, Mass: 14.29 Kg/m

[Group CE2023]

Roofs

External Walls

Thermal Transmittance:

0.20 W/m²K

0.20 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:

10.15 kNm/m

10.15 kNm/m

- +ve bending, elevated temperature

9.03 kNm/m

9.03 kNm/m

- -ve bending:

8.27 kNm/m

8.27 kNm/m

- -ve bending, elevated temperature

7.36 kNm/m

7.36 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.41 kNm/m

5.41 kNm/m

- +ve bending, elevated temperature

4.81 kNm/m

4.81 kNm/m

- -ve bending:

4.32 kNm/m

4.32 kNm/m

- -ve bending, elevated temperature

3.84 kNm/m

3.84 kNm/m

Wrinkling Stress (external face):

- in span

255 MPa

255 MPa

- in span, elevated temperature

247 MPa

247 MPa

- at central support:

190 MPa

190 MPa

- at central support, elevated temperature

168 MPa

168 MPa

Wrinkling Stress (internal face):

- in span

192 MPa

192 MPa

- at central support:

104 MPa

104 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



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EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 120mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HBP50µm, Mass: 13.34 Kg/m

[Group CE2024]

Roofs

External Walls

Thermal Transmittance:

0.16 W/m²K

0.16 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):

2.00 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:

9.77 kNm/m

9.77 kNm/m

- +ve bending, elevated temperature

8.70 kNm/m

8.70 kNm/m

- -ve bending:

10.27 kNm/m

10.27 kNm/m

- -ve bending, elevated temperature

9.14 kNm/m

9.14 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.87 kNm/m

5.87 kNm/m

- +ve bending, elevated temperature

5.22 kNm/m

5.22 kNm/m

- -ve bending:

4.96 kNm/m

4.96 kNm/m

- -ve bending, elevated temperature

4.41 kNm/m

4.41 kNm/m

Wrinkling Stress (external face):

- in span

231 MPa

231 MPa

- in span, elevated temperature

215 MPa

215 MPa

- at central support:

160 MPa

160 MPa

- at central support, elevated temperature

142 MPa

142 MPa

Wrinkling Stress (internal face):

- in span

205 MPa

205 MPa

- at central support:

101 MPa

101 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



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EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 120mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 13.34 Kg/m

[Group CE2025]

Roofs

External Walls

Thermal Transmittance:

0.16 W/m²K

0.16 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):

2.00 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:

9.77 kNm/m

9.77 kNm/m

- +ve bending, elevated temperature

8.70 kNm/m

8.70 kNm/m

- -ve bending:

10.27 kNm/m

10.27 kNm/m

- -ve bending, elevated temperature

9.14 kNm/m

9.14 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.87 kNm/m

5.87 kNm/m

- +ve bending, elevated temperature

5.22 kNm/m

5.22 kNm/m

- -ve bending:

4.96 kNm/m

4.96 kNm/m

- -ve bending, elevated temperature

4.41 kNm/m

4.41 kNm/m

Wrinkling Stress (external face):

- in span

231 MPa

231 MPa

- in span, elevated temperature

215 MPa

215 MPa

- at central support:

160 MPa

160 MPa

- at central support, elevated temperature

142 MPa

142 MPa

Wrinkling Stress (internal face):

- in span

205 MPa

205 MPa

- at central support:

101 MPa

101 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



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EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 120mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HBP50µm, Mass: 15.25 Kg/m

[Group CE2026]

Roofs

External Walls

Thermal Transmittance:

0.16 W/m²K

0.16 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):

2.00 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:

9.77 kNm/m

9.77 kNm/m

- +ve bending, elevated temperature

8.70 kNm/m

8.70 kNm/m

- -ve bending:

10.27 kNm/m

10.27 kNm/m

- -ve bending, elevated temperature

9.14 kNm/m

9.14 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.87 kNm/m

5.87 kNm/m

- +ve bending, elevated temperature

5.22 kNm/m

5.22 kNm/m

- -ve bending:

4.96 kNm/m

4.96 kNm/m

- -ve bending, elevated temperature

4.41 kNm/m

4.41 kNm/m

Wrinkling Stress (external face):

- in span

231 MPa

231 MPa

- in span, elevated temperature

215 MPa

215 MPa

- at central support:

160 MPa

160 MPa

- at central support, elevated temperature

142 MPa

142 MPa

Wrinkling Stress (internal face):

- in span

205 MPa

205 MPa

- at central support:

101 MPa

101 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



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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



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EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 60mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: Prisma, Mass: 10.74 Kg/m

[Group CE2032]

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



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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: HPVC(P)200µm, Mass: 12.65 Kg/m

[Group CE2033]

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



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EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 60mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HPVC(P)200µm, Mass: 10.74 Kg/m

[Group CE2034]

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



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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: PVC(P)200µm, Mass: 12.65 Kg/m

[Group CE2035]

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



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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: 80mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HBP50µm, Mass: 11.62 Kg/m

[Group CE2036]

Roofs

External Walls

Thermal Transmittance:

0.25 W/m²K

0.25 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:

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

5.57 kNm/m

Bending resistance at an internal support:

- +ve bending:

4.96 kNm/m

4.96 kNm/m

- +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



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EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 100mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 14.29 Kg/m

[Group CE2037]

Roofs

External Walls

Thermal Transmittance:

0.20 W/m²K

0.20 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:

10.15 kNm/m

10.15 kNm/m

- +ve bending, elevated temperature

9.03 kNm/m

9.03 kNm/m

- -ve bending:

8.27 kNm/m

8.27 kNm/m

- -ve bending, elevated temperature

7.36 kNm/m

7.36 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.41 kNm/m

5.41 kNm/m

- +ve bending, elevated temperature

4.81 kNm/m

4.81 kNm/m

- -ve bending:

4.32 kNm/m

4.32 kNm/m

- -ve bending, elevated temperature

3.84 kNm/m

3.84 kNm/m

Wrinkling Stress (external face):

- in span

255 MPa

255 MPa

- in span, elevated temperature

247 MPa

247 MPa

- at central support:

190 MPa

190 MPa

- at central support, elevated temperature

168 MPa

168 MPa

Wrinkling Stress (internal face):

- in span

192 MPa

192 MPa

- at central support:

104 MPa

104 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



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EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 80mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HBP50µm, Mass: 13.53 Kg/m

[Group CE2038]

Roofs

External Walls

Thermal Transmittance:

0.25 W/m²K

0.25 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:

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

5.57 kNm/m

Bending resistance at an internal support:

- +ve bending:

4.96 kNm/m

4.96 kNm/m

- +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



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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: 80mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 11.62 Kg/m

[Group CE2039]

Roofs

External Walls

Thermal Transmittance:

0.25 W/m²K

0.25 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:

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

5.57 kNm/m

Bending resistance at an internal support:

- +ve bending:

4.96 kNm/m

4.96 kNm/m

- +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



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EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 100mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: SP25µm, Mass: 12.38 Kg/m

[Group CE2040]

Roofs

External Walls

Thermal Transmittance:

0.20 W/m²K

0.20 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:

10.15 kNm/m

10.15 kNm/m

- +ve bending, elevated temperature

9.03 kNm/m

9.03 kNm/m

- -ve bending:

8.27 kNm/m

8.27 kNm/m

- -ve bending, elevated temperature

7.36 kNm/m

7.36 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.41 kNm/m

5.41 kNm/m

- +ve bending, elevated temperature

4.81 kNm/m

4.81 kNm/m

- -ve bending:

4.32 kNm/m

4.32 kNm/m

- -ve bending, elevated temperature

3.84 kNm/m

3.84 kNm/m

Wrinkling Stress (external face):

- in span

255 MPa

255 MPa

- in span, elevated temperature

247 MPa

247 MPa

- at central support:

190 MPa

190 MPa

- at central support, elevated temperature

168 MPa

168 MPa

Wrinkling Stress (internal face):

- in span

192 MPa

192 MPa

- at central support:

104 MPa

104 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



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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: 100mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: SP25µm, Mass: 14.29 Kg/m

[Group CE2041]

Roofs

External Walls

Thermal Transmittance:

0.20 W/m²K

0.20 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:

10.15 kNm/m

10.15 kNm/m

- +ve bending, elevated temperature

9.03 kNm/m

9.03 kNm/m

- -ve bending:

8.27 kNm/m

8.27 kNm/m

- -ve bending, elevated temperature

7.36 kNm/m

7.36 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.41 kNm/m

5.41 kNm/m

- +ve bending, elevated temperature

4.81 kNm/m

4.81 kNm/m

- -ve bending:

4.32 kNm/m

4.32 kNm/m

- -ve bending, elevated temperature

3.84 kNm/m

3.84 kNm/m

Wrinkling Stress (external face):

- in span

255 MPa

255 MPa

- in span, elevated temperature

247 MPa

247 MPa

- at central support:

190 MPa

190 MPa

- at central support, elevated temperature

168 MPa

168 MPa

Wrinkling Stress (internal face):

- in span

192 MPa

192 MPa

- at central support:

104 MPa

104 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



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EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 100mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVDF25µm, Mass: 14.29 Kg/m

[Group CE2042]

Roofs

External Walls

Thermal Transmittance:

0.20 W/m²K

0.20 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:

10.15 kNm/m

10.15 kNm/m

- +ve bending, elevated temperature

9.03 kNm/m

9.03 kNm/m

- -ve bending:

8.27 kNm/m

8.27 kNm/m

- -ve bending, elevated temperature

7.36 kNm/m

7.36 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.41 kNm/m

5.41 kNm/m

- +ve bending, elevated temperature

4.81 kNm/m

4.81 kNm/m

- -ve bending:

4.32 kNm/m

4.32 kNm/m

- -ve bending, elevated temperature

3.84 kNm/m

3.84 kNm/m

Wrinkling Stress (external face):

- in span

255 MPa

255 MPa

- in span, elevated temperature

247 MPa

247 MPa

- at central support:

190 MPa

190 MPa

- at central support, elevated temperature

168 MPa

168 MPa

Wrinkling Stress (internal face):

- in span

192 MPa

192 MPa

- at central support:

104 MPa

104 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



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EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/m³, Thickness: 100mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HPVC(P)200µm, Mass: 12.38 Kg/m

[Group CE2043]

Roofs

External Walls

Thermal Transmittance:

0.20 W/m²K

0.20 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:

10.15 kNm/m

10.15 kNm/m

- +ve bending, elevated temperature

9.03 kNm/m

9.03 kNm/m

- -ve bending:

8.27 kNm/m

8.27 kNm/m

- -ve bending, elevated temperature

7.36 kNm/m

7.36 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.41 kNm/m

5.41 kNm/m

- +ve bending, elevated temperature

4.81 kNm/m

4.81 kNm/m

- -ve bending:

4.32 kNm/m

4.32 kNm/m

- -ve bending, elevated temperature

3.84 kNm/m

3.84 kNm/m

Wrinkling Stress (external face):

- in span

255 MPa

255 MPa

- in span, elevated temperature

247 MPa

247 MPa

- at central support:

190 MPa

190 MPa

- at central support, elevated temperature

168 MPa

168 MPa

Wrinkling Stress (internal face):

- in span

192 MPa

192 MPa

- at central support:

104 MPa

104 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



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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: 40mm, Facings: Steel 0.7mm external, 0.4mm internal, Coating: PVDF25µm, Mass: 11.98 Kg/m

[Group CE2048]

Roofs

External Walls

Thermal Transmittance:

0.50 W/m²K

0.50 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:

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



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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: 40mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HPVC(P)200µm, Mass: 10.06 Kg/m

[Group CE2049]

Roofs

External Walls

Thermal Transmittance:

0.50 W/m²K

0.50 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:

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



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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: 70mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 11.10 Kg/m

[Group CE2055]

Roofs

External Walls

Thermal Transmittance:

0.3 W/m²K

0.3 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:

8.89 kNm/m

8.89 kNm/m

- +ve bending, elevated temperature

7.91 kNm/m

7.91 kNm/m

- -ve bending:

5.51 kNm/m

5.51 kNm/m

- -ve bending, elevated temperature

4.91 kNm/m

4.91 kNm/m

Bending resistance at an internal support:

- +ve bending:

4.31 kNm/m

4.31 kNm/m

- +ve bending, elevated temperature

3.83 kNm/m

3.83 kNm/m

- -ve bending:

3.49 kNm/m

3.49 kNm/m

- -ve bending, elevated temperature

3.1 kNm/m

3.1 kNm/m

Wrinkling Stress (external face):

- in span

280 MPa

280 MPa

- in span, elevated temperature

280 MPa

280 MPa

- at central support:

220 MPa

220 MPa

- at central support, elevated temperature

195 MPa

195 MPa

Wrinkling Stress (internal face):

- in span

173 MPa

173 MPa

- at central support:

114 MPa

114 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



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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: HBP50µm, Mass: 12.86 Kg/m

[Group CE2058]

Roofs

External Walls

Thermal Transmittance:

0.18 W/m²K

0.18 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):

2.00 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



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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

0.18 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):

2.00 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



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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: HPVC(P)200µm, Mass: 12.86 Kg/m

[Group CE2062]

Roofs

External Walls

Thermal Transmittance:

0.18 W/m²K

0.18 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):

2.00 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



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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: 130mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 13.66 Kg/m

[Group CE2065]

Roofs

External Walls

Thermal Transmittance:

0.15 W/m²K

0.15 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):

2.00 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:

9.57 kNm/m

9.57 kNm/m

- +ve bending, elevated temperature

8.53 kNm/m

8.53 kNm/m

- -ve bending:

11.28 kNm/m

11.28 kNm/m

- -ve bending, elevated temperature

10.03 kNm/m

10.03 kNm/m

Bending resistance at an internal support:

- +ve bending:

6.09 kNm/m

6.09 kNm/m

- +ve bending, elevated temperature

5.42 kNm/m

5.42 kNm/m

- -ve bending:

5.29 kNm/m

5.29 kNm/m

- -ve bending, elevated temperature

4.7 kNm/m

4.7 kNm/m

Wrinkling Stress (external face):

- in span

219 MPa

219 MPa

- in span, elevated temperature

198 MPa

198 MPa

- at central support:

145 MPa

145 MPa

- at central support, elevated temperature

129 MPa

129 MPa

Wrinkling Stress (internal face):

- in span

211 MPa

211 MPa

- at central support:

100 MPa

100 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



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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: 40mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVDF25µm, Mass: 10.06 Kg/m

[Group CE2070]

Roofs

External Walls

Thermal Transmittance:

0.50 W/m²K

0.50 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:

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



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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: 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/m²K

0.50 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:

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



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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: 60mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: PVDF25µm, Mass: 10.74 Kg/m

[Group CE2073]

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



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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: 80mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: Prisma, Mass: 11.62 Kg/m

[Group CE2075]

Roofs

External Walls

Thermal Transmittance:

0.25 W/m²K

0.25 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:

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

5.57 kNm/m

Bending resistance at an internal support:

- +ve bending:

4.96 kNm/m

4.96 kNm/m

- +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



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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: 100mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: Prisma, Mass: 12.38 Kg/m

[Group CE2077]

Roofs

External Walls

Thermal Transmittance:

0.20 W/m²K

0.20 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:

10.15 kNm/m

10.15 kNm/m

- +ve bending, elevated temperature

9.03 kNm/m

9.03 kNm/m

- -ve bending:

8.27 kNm/m

8.27 kNm/m

- -ve bending, elevated temperature

7.36 kNm/m

7.36 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.41 kNm/m

5.41 kNm/m

- +ve bending, elevated temperature

4.81 kNm/m

4.81 kNm/m

- -ve bending:

4.32 kNm/m

4.32 kNm/m

- -ve bending, elevated temperature

3.84 kNm/m

3.84 kNm/m

Wrinkling Stress (external face):

- in span

255 MPa

255 MPa

- in span, elevated temperature

247 MPa

247 MPa

- at central support:

190 MPa

190 MPa

- at central support, elevated temperature

168 MPa

168 MPa

Wrinkling Stress (internal face):

- in span

192 MPa

192 MPa

- at central support:

104 MPa

104 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



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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: 120mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: SP25µm, Mass: 13.34 Kg/m

[Group CE2078]

Roofs

External Walls

Thermal Transmittance:

0.16 W/m²K

0.16 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):

2.00 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:

9.77 kNm/m

9.77 kNm/m

- +ve bending, elevated temperature

8.70 kNm/m

8.70 kNm/m

- -ve bending:

10.27 kNm/m

10.27 kNm/m

- -ve bending, elevated temperature

9.14 kNm/m

9.14 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.87 kNm/m

5.87 kNm/m

- +ve bending, elevated temperature

5.22 kNm/m

5.22 kNm/m

- -ve bending:

4.96 kNm/m

4.96 kNm/m

- -ve bending, elevated temperature

4.41 kNm/m

4.41 kNm/m

Wrinkling Stress (external face):

- in span

231 MPa

231 MPa

- in span, elevated temperature

215 MPa

215 MPa

- at central support:

160 MPa

160 MPa

- at central support, elevated temperature

142 MPa

142 MPa

Wrinkling Stress (internal face):

- in span

205 MPa

205 MPa

- at central support:

101 MPa

101 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



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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: 120mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: HPVC(P)200µm, Mass: 13.34 Kg/m

[Group CE2079]

Roofs

External Walls

Thermal Transmittance:

0.16 W/m²K

0.16 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):

2.00 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:

9.77 kNm/m

9.77 kNm/m

- +ve bending, elevated temperature

8.70 kNm/m

8.70 kNm/m

- -ve bending:

10.27 kNm/m

10.27 kNm/m

- -ve bending, elevated temperature

9.14 kNm/m

9.14 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.87 kNm/m

5.87 kNm/m

- +ve bending, elevated temperature

5.22 kNm/m

5.22 kNm/m

- -ve bending:

4.96 kNm/m

4.96 kNm/m

- -ve bending, elevated temperature

4.41 kNm/m

4.41 kNm/m

Wrinkling Stress (external face):

- in span

231 MPa

231 MPa

- in span, elevated temperature

215 MPa

215 MPa

- at central support:

160 MPa

160 MPa

- at central support, elevated temperature

142 MPa

142 MPa

Wrinkling Stress (internal face):

- in span

205 MPa

205 MPa

- at central support:

101 MPa

101 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



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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: 120mm, Facings: Steel 0.5mm external, 0.4mm internal, Coating: Prisma, Mass: 13.34 Kg/m

[Group CE2081]

Roofs

External Walls

Thermal Transmittance:

0.16 W/m²K

0.16 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):

2.00 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:

9.77 kNm/m

9.77 kNm/m

- +ve bending, elevated temperature

8.70 kNm/m

8.70 kNm/m

- -ve bending:

10.27 kNm/m

10.27 kNm/m

- -ve bending, elevated temperature

9.14 kNm/m

9.14 kNm/m

Bending resistance at an internal support:

- +ve bending:

5.87 kNm/m

5.87 kNm/m

- +ve bending, elevated temperature

5.22 kNm/m

5.22 kNm/m

- -ve bending:

4.96 kNm/m

4.96 kNm/m

- -ve bending, elevated temperature

4.41 kNm/m

4.41 kNm/m

Wrinkling Stress (external face):

- in span

231 MPa

231 MPa

- in span, elevated temperature

215 MPa

215 MPa

- at central support:

160 MPa

160 MPa

- at central support, elevated temperature

142 MPa

142 MPa

Wrinkling Stress (internal face):

- in span

205 MPa

205 MPa

- at central support:

101 MPa

101 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



2812

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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: 130mm, Facings: Steel 0.7mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 15.57 Kg/m

[Group CE2104]

Roofs

External Walls

Thermal Transmittance:

0.15 W/m²K

0.15 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):

2.00 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:

9.57 kNm/m

9.57 kNm/m

- +ve bending, elevated temperature

8.53 kNm/m

8.53 kNm/m

- -ve bending:

11.28 kNm/m

11.28 kNm/m

- -ve bending, elevated temperature

10.03 kNm/m

10.03 kNm/m

Bending resistance at an internal support:

- +ve bending:

6.09 kNm/m

6.09 kNm/m

- +ve bending, elevated temperature

5.42 kNm/m

5.42 kNm/m

- -ve bending:

5.29 kNm/m

5.29 kNm/m

- -ve bending, elevated temperature

4.7 kNm/m

4.7 kNm/m

Wrinkling Stress (external face):

- in span

219 MPa

219 MPa

- in span, elevated temperature

198 MPa

198 MPa

- at central support:

145 MPa

145 MPa

- at central support, elevated temperature

129 MPa

129 MPa

Wrinkling Stress (internal face):

- in span

211 MPa

211 MPa

- at central support:

100 MPa

100 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