



2812

Steadman & Son

Warnell, Welton, Carlisle, Cumbria CA5 7HH

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2812-CPR-PA0002

EN14509

Metal faced insulating panel for use in buildings

Reference: AS35, Insulation: PIR, Density: 38-42 Kg/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/m ² K	0.50 W/m ² K
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:	NPD	NPD
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/m ² K	0.50 W/m ² K
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:	NPD	NPD
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/m ² K	0.50 W/m ² K
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:	NPD	NPD
Water permeability:	NPD	NPD
Water vapour permeability:	Impermeable	Impermeable
Airborne sound insulation:	Rw(C:Ctr)>22	Rw(C:Ctr)>22



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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/m ² K	0.50 W/m ² K
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:	NPD	NPD
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/m ² K	0.50 W/m ² K
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:	NPD	NPD
Water permeability:	NPD	NPD
Water vapour permeability:	Impermeable	Impermeable
Airborne sound insulation:	Rw(C:Ctr)>22	Rw(C:Ctr)>22



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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/m ² K	0.50 W/m ² K
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:	NPD	NPD
Water permeability:	NPD	NPD
Water vapour permeability:	Impermeable	Impermeable
Airborne sound insulation:	Rw(C:Ctr)>22	Rw(C:Ctr)>22



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[Group CE2007]

Roofs

External Walls

Thermal Transmittance:	0.50 W/m ² K	0.50 W/m ² K
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:	NPD	NPD
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: 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/m ² K	0.35 W/m ² K
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:	NPD	NPD
Water permeability:	NPD	NPD
Water vapour permeability:	Impermeable	Impermeable
Airborne sound insulation:	Rw(C:Ctr)>22	Rw(C:Ctr)>22



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[Group CE2009]

Roofs

External Walls

Thermal Transmittance:	0.35 W/m ² K	0.35 W/m ² K
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:	NPD	NPD
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: 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/m ² K	0.35 W/m ² K
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:	NPD	NPD
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: 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/m ² K	0.25 W/m ² K
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:	NPD	NPD
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: 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/m ² K	0.25 W/m ² K
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:	NPD	NPD
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/m ² K	0.25 W/m ² K
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:	NPD	NPD
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/m ² K	0.25 W/m ² K
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:	NPD	NPD
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 buildingsReference: 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/m ² K	0.35 W/m ² K
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:	NPD	NPD
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/m ² K	0.35 W/m ² K
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:	NPD	NPD
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/m ² K	0.25 W/m ² K
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:	NPD	NPD
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/m ² K	0.25 W/m ² K
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	0.8	
t = 2000 h		
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:	NPD	NPD
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/m ² K	0.20 W/m ² K
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:	NPD	NPD
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: 14.29 Kg/m

[Group CE2021]

Roofs

External Walls

Thermal Transmittance:	0.20 W/m ² K	0.20 W/m ² K
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:	NPD	NPD
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: PVC(P)200µm, Mass: 12.38 Kg/m

[Group CE2022]

Roofs

External Walls

Thermal Transmittance:	0.20 W/m ² K	0.20 W/m ² K
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:	NPD	NPD
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: HPVC(P)200µm, Mass: 14.29 Kg/m

[Group CE2023]

Roofs

External Walls

Thermal Transmittance:	0.20 W/m ² K	0.20 W/m ² K
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:	NPD	NPD
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: HBP50µm, Mass: 13.34 Kg/m

[Group CE2024]

Roofs

External Walls

Thermal Transmittance:	0.16 W/m ² K	0.16 W/m ² K
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:	NPD	NPD
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: PVC(P)200µm, Mass: 13.34 Kg/m

[Group CE2025]

Roofs

External Walls

Thermal Transmittance:	0.16 W/m ² K	0.16 W/m ² K
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	0.8	
t = 2000 h		
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:	NPD	NPD
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: HBP50µm, Mass: 15.25 Kg/m

[Group CE2026]

Roofs

External Walls

Thermal Transmittance:	0.16 W/m ² K	0.16 W/m ² K
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:	NPD	NPD
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: SP25µm, Mass: 12.65 Kg/m

[Group CE2031]

Roofs

External Walls

Thermal Transmittance:	0.35 W/m ² K	0.35 W/m ² K
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	0.8	
t = 2000 h		
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:	NPD	NPD
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: Prisma, Mass: 10.74 Kg/m

[Group CE2032]

Roofs

External Walls

Thermal Transmittance:	0.35 W/m ² K	0.35 W/m ² K
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:	NPD	NPD
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: HPVC(P)200µm, Mass: 12.65 Kg/m

[Group CE2033]

Roofs

External Walls

Thermal Transmittance:	0.35 W/m ² K	0.35 W/m ² K
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:	NPD	NPD
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: HPVC(P)200µm, Mass: 10.74 Kg/m

[Group CE2034]

Roofs

External Walls

Thermal Transmittance:	0.35 W/m ² K	0.35 W/m ² K
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:	NPD	NPD
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: PVC(P)200µm, Mass: 12.65 Kg/m

[Group CE2035]

Roofs

External Walls

Thermal Transmittance:	0.35 W/m ² K	0.35 W/m ² K
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:	NPD	NPD
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/m ² K	0.25 W/m ² K
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:	NPD	NPD
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: PVC(P)200µm, Mass: 14.29 Kg/m

[Group CE2037]

Roofs

External Walls

Thermal Transmittance:	0.20 W/m ² K	0.20 W/m ² K
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:	NPD	NPD
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: 13.53 Kg/m

[Group CE2038]

Roofs

External Walls

Thermal Transmittance:	0.25 W/m ² K	0.25 W/m ² K
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:	NPD	NPD
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/m ² K	0.25 W/m ² K
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:	NPD	NPD
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: 12.38 Kg/m

[Group CE2040]

Roofs

External Walls

Thermal Transmittance:	0.20 W/m ² K	0.20 W/m ² K
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:	NPD	NPD
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/m ² K	0.20 W/m ² K
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:	NPD	NPD
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: PVDF25µm, Mass: 14.29 Kg/m

[Group CE2042]

Roofs

External Walls

Thermal Transmittance:	0.20 W/m ² K	0.20 W/m ² K
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:	NPD	NPD
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: HPVC(P)200µm, Mass: 12.38 Kg/m

[Group CE2043]

Roofs

External Walls

Thermal Transmittance:	0.20 W/m ² K	0.20 W/m ² K
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:	NPD	NPD
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/m ² K	0.50 W/m ² K
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:	NPD	NPD
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/m ² K	0.50 W/m ² K
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:	NPD	NPD
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/m ² K	0.3 W/m ² K
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:	NPD	NPD
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: HBP50µm, Mass: 12.86 Kg/m

[Group CE2058]

Roofs

External Walls

Thermal Transmittance:	0.18 W/m ² K	0.18 W/m ² K
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:	NPD	NPD
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/m ² K	0.18 W/m ² K
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:	NPD	NPD
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/m ² K	0.18 W/m ² K
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:	NPD	NPD
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/m ² K	0.15 W/m ² K
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:	NPD	NPD
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/m ² K	0.50 W/m ² K
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:	NPD	NPD
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/m ² K	0.50 W/m ² K
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:	NPD	NPD
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/m ² K	0.35 W/m ² K
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	0.8	
t = 2000 h		
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:	NPD	NPD
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/m ² K	0.25 W/m ² K
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:	NPD	NPD
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/m ² K	0.20 W/m ² K
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:	NPD	NPD
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/m ² K	0.16 W/m ² K
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:	NPD	NPD
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/m ² K	0.16 W/m ² K
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:	NPD	NPD
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/m ² K	0.16 W/m ² K
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:	NPD	NPD
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 0.7mm external, 0.4mm internal, Coating: PVC(P)200µm, Mass: 15.57 Kg/m

[Group CE2104]

Roofs

External Walls

Thermal Transmittance:	0.15 W/m ² K	0.15 W/m ² K
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:	NPD	NPD
Water permeability:	NPD	NPD
Water vapour permeability:	Impermeable	Impermeable
Airborne sound insulation:	Rw(C:Ctr)>22	Rw(C:Ctr)>22