CE

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 0.7mm 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