Technical Data Sheet

CS PIR Insulation Panel

With P-ZACS® Prepainted Steel Skin

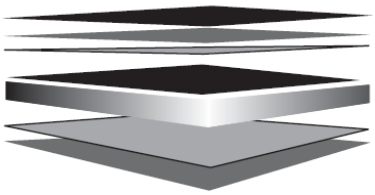
General Technical Properties

Property	Test Method	Unit	Typical Value
Overall Density	EN ISO 845	kg/m^3	40-42
Thermal Conductivity	ASTM C518 +24°C Initial	mW/m·K	20-22
Closed Cell Content	EN ISO 4590	%	≥ 90
Operating Temperature Limits	Upper Limit Lower Limit	°C °C	+60 -40
Compressive Strength	ISO 844 Parallel Perpendicular	 kPa kPa	 ≥ 150 ≥ 110
Linear Dimensional Stability	EN 1604 +70°C for 48 hours -30°C for 48 hours	 % %	 ≤ 1 ≤ 1
Water Absorption	DIN 53428	%	≤ 3

Technical Information for P-ZACS® Prepainted Steel Skin

P-ZACS® prepainted steel is an economical but high-quality material specifically for the manufacture of insulated sandwich panels requires USDA approvable. The product offers excellent formability coupled with good durability and protection.

Preferred Substrate	55% Al/Zn G300S AZ100 steel (Aluminum/Zinc alloy-coated steel)
Pretreatment	Corrosion resistant proprietary conversion coating
Primer Coat	Universal corrosion inhibitive primer. Nominal dry film thickness 5µm on top primer
Finish Coat	Custom formulated USDA approvable paint system. Nominal dry film thickness 20µm on the top or weather side.
Backing Coat	Custom formulated Epoxy Grey Backer. Nominal dry film thickness 7µm
Colour	CS White colour is available. Other specifically required colours may be available on request.



Finish Coat (Nominal 20µm) Universal Corrosion Inhibitive Primer (Nominal 5µm) Conversion Coating

55% Aluminium/Zinc Alloy Coated Steel Substrate AZ100 Conversion Coating

Backing Coat (Epoxy Grey Backer, Nominal 7µm)

Fire Classifications

Property	Test Method	Typical Result
Reaction to fire	EN 13501-1	B - s1, d0 / B – s2, d0
Fire Rated	BS 476 - 22	1 hour fire rating (200mm thick Panel only)
Toxicity	BS EN 45545-2	CIT < 0.75
Bomba Certificate	BS 476 – 6 & 7	*Class 0
Fire propagation	BS 476–6	Index of performance (I) not exceeding 12 and sub-index (i_1) not exceeding 6*
Flame spread	BS 476–7	Class 1

*Combination of the BS 476-6 & BS 476-7 test results above will classify as Class 0