

FACING MATERIAL	PANEL WIDTH	PANEL THICKNESS	PANEL LENGTH
0.5mm colorbond (standard) Other choices: Aluminium, plywood stainless steel, galvanised iron, etc	1220mm (standard)	25mm - 200mm other required thickness can be manufactured as per specifications	1m - 10m

SPECIFICATIONS TYPICAL PHYSICAL PROPERTIES

Property	Units	Polyurethane
Injected Density	kg/m ³	38-40
Thermal Conductivity	kcal/m/hr/°c	0.018-0.020
Compression Strength	Kg/cm ²	1.7 - 2.2
Modulus of Elasticity	Kg/cm ²	40 - 70
Shearing Strength	Kg/cm ²	1.7- 2.1
Breaking Elongation		5 - 10%
Water Vapour Transfer	a23 °c	30 - 60%
Water Absorption	p/v%	1.7 - 2.3%
Closed Cells		90 - 95%
Operation temperature		-60 - +80 °c

STRUCTURAL DATA (Maximum uniform loads in KG/m for spans)

Core Material	Panel Weight Kg/m	Core Thickness mm	Span in Meter											
			1	2	3	4	5	6	7	8	9	10	11	12
Poly-urethane	10.59	50	390	156	78	53	26	16	11					
	11.34	75		225	137	81	50	33	23	16	12			
	12.09	100		357	200	122	79	53	37	27	20	15	11	
	12.84	125		459	264	166	110	76	54	39	29	22	17	14
	13.59	150		262	330	205	130	90	65	50	40	31	24	19
	14.34	175		665	397	240	153	105	78	60	45	38	30	25
	15.09	200			464	273	175	121	88	67	53	42	35	28
	15.84	225			532	308	196	136	100	76	60	48	40	33
	16.59	250			600	343	220	152	110	84	67	53	44	36

K value w/m C	Material	Thickness for Equivalent Insulation	Weight/ 100m ² for Equivalent Insulation
0.016	Ployurethane	2.5 cm	89 kg
0.036	Fibreglass	4.5 cm	633 kg
0.036	Polystyrene	5.1 cm	71 kg
0.05	Foam Glass	6.4 cm	1005 kg
0.061	Fibreboard	6.41 cm	1827 kg
0.065	Expanded Perlite	7.0 cm	1035 kg