المصنع الدولي لصناعة البرادات

INTERNATIONAL FACTORY FOR REFRIGERATION INDUSTRY

TECHNICAL DATA

TEST	MEASURED VALUE			STANDARD	UNIT
Density (core)	40±2			DIN EN ISO 845	kg/m³
Compressive Strength	0.21			DIN 53 421	N/mm²
Compression	10			DIN 53 421	%
Flexural Strrength	0.58			DIN 53 423	N/mm²
Bending	13			DIN 53 423	mm
Water Absorption after 24 hrs	1.9			DIN 53 428	Vol.%
Closed Cells	93			ISO 4590	%
Dimensional Stability	**H**	**W**	**L**	DIN 53 431	%
-30°C	-0.2	-0.2	+0.2		
+80°C	-0.6	-0.4	-0.3		
+100°C	-0.6	-0.8	+0.2		
Long-Term temperature resistance range				-50°C to +110°C	
Thermal Conductivity (k Valve)	0.013 Btu/hr.ft.°F 0.023 W/m.K				
Transmisssion Coefficient (U Valve)	0.013/Ft Thickness = Btu/hr.ft.²°F 0.023/meter thickness = W/m²K				

Thickness of Insulation to be determine by conductor using design U value

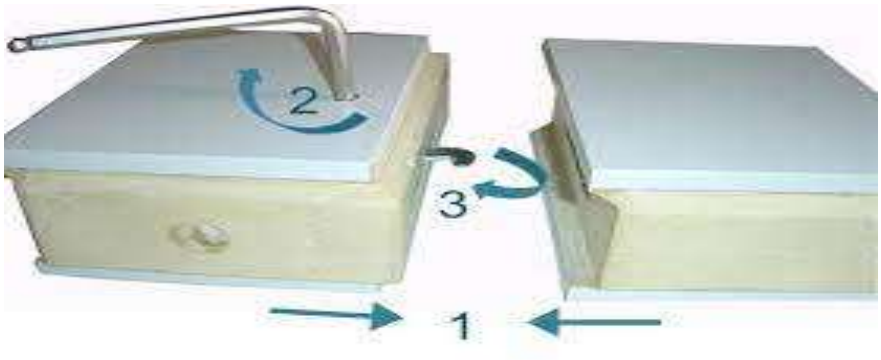
A. Thermal Conductivity "K"	**W/m.K**	**kcal/hr.m.°C**	**Btu/hr.ft.°F**
	1	0.86	0.578
	1.163	1	0.672
	1.73	1.488	1
B. Transmission Coefficient "U"	**W/m².K**	**kcal/hr.m.²°C**	**Btu/hr.ft.²°F**
	1	0.86	0.176
	1.163	1	0.205
	5.678	4.882	1
C. Heat Transfer "Q"	**W**	**kcal/hr**	**Btu/hr.**
	1	0.86	3.413
	1.163	1	3.969
	0.293	0.252	1

THERMAL TRANSMIISION
Thermal Conductivity of Polyurethane k= 0.023 W/m °C

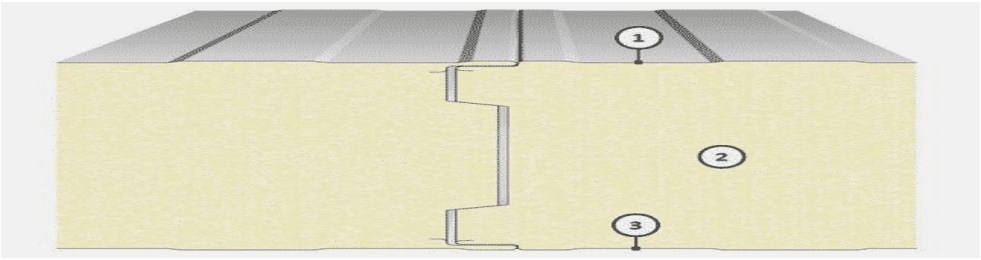
Thickness in mm			**50**	**80**	**100**	**120**	**150**	**180**	**200**
Useful U (W/m² °C)			**0.46**	**0.288**	**0.23**	**0.192**	**0.153**	**0.128**	**0.115**
Δt = temperature	**10**	**Q= Thermal Transmission in W/m²**	4.60	2.88	2.30	1.92	1.53	1.28	1.15
	15		6.90	4.32	3.45	2.88	2.29	1.92	1.72
	20		9.20	5.76	4.60	3.84	3.05	2.56	2.30
	25		11.50	7.20	5.75	4.80	3.81	3.20	2.87
	30		13.80	8.64	6.90	5.76	4.57	3.84	3.44
	35		16.10	10.08	8.05	6.72	5.33	4.48	4.02
	40		18.40	11.52	9.20	7.68	6.09	5.12	4.59
	45		20.70	12.96	10.35	8.64	6.85	5.76	5.17
	50		23.00	14.40	11.50	9.60	7.61	6.40	5.75
	55		25.30	15.84	12.65	10.56	8.37	7.04	6.32
	60		27.60	17.28	13.80	11.52	9.13	7.68	6.90
	65		29.90	18.72	14.95	12.48	9.89	8.32	7.47
	70		32.20	20.16	16.10	13.44	10.65	8.96	8.05
	75		34.50	21.60	17.25	14.40	11.41	9.60	8.62
	80		36.80	23.04	18.40	15.36	12.17	10.24	9.20
	85		39.10	24.48	19.55	16.32	12.93	10.88	9.77
	90		41.40	25.92	20.70	17.28	13.69	11.52	10.35

Allowable thermal transmission 10 to 12 W/m²

Cam Lock System



Procedure for Cam Lock System



Male & Female System

SPECIFICATIONS OF THE CLADDING

GALVANIZED (G.I) POLYSTER COATED		GALVANIZED (PVC) PLASTISOL COATED	
Base Metal	Hot dip Zinc Coated Coil ASTM A 527 (L.F.O) ASTM A 445	**Base Metal Code**	Hot dip Zinc Coated Coil ASTM A 527 (L.F.O) ASTM A 445
Grade	G 90 (275 GRM Zinc/M²)	**Grade**	G 90 (275 GRM Zinc/M²)
Yield Strength	Min 33 KSI	**Yield Strength**	Min 33 KSI
Tensile Strength	Min 45 KSI	**Tensile Strength**	Min 45 KSI
Total Coat Thickness	25 Micron (Top Side)	**Total Coat Thickness**	200 Micron (Top Side)
Primer Thickness	5 Micron (Reverse Side)	**Primer Thickness**	5 Micron (Reverse Side)

FREE STANDING HEIGHT ACCORDING TPO THE THICKNESS OF THE INSULATION,LENGTH OF THE PANELS, THICKNESS OF THE CLADDING

Panel Thickness	Cladding Thickness	Applicable Length
50 mm	0.5mm	4000mm (Free standing)
100mm	0.5mm	4500mm (Free Standing)
100mm	0.6mm	8000mm (Free Standing)
150mm	0.6mm	9500mm (Free Sanding)

MANUAL HINGED DOOR

AUTOMATIC CLOSING HINGED DOOR

MANUAL SLIDING DOOR

ROLLUP SHUTTER DOOR

OVERHEAD SECTIONAL DOOR