

larson pe[®] Technical Specifications

Dimensional specifications

	2 layer, 3 layer or termolac [®]		
	3	4	6
Total thickness (mm)			
Metal thickness (mm)		0,5	
Weight (Kg/m ²)	4,52	5,5	7,25
Standard width (mm)	1000 - 1250 - 1500		
Minimum / Maximum width (mm)	900 / 1650		
Minimum / Maximum length (mm)	2000 / 8000		
Core	Polyethylene PE		
Thickness tolerances (mm)	+0,2		
Width tolerance (mm)	+2,5		
Length tolerance (mm)	+10		

Mechanical specifications

	2 layer, 3 layer or termolac [®]		
Moment of inertia (cm ⁴ /m) (ASTM C-393)	0,04	0,2637	0,625
Rigidity (KNm ² /m) (ASTM C-393)	0,07	0,1846	0,44
Modulus of elasticity (N/mm ²) (UNE EN ISO 527-1/2)	17542	17542	17610
Ultimate tensile strength (N/mm ²) (UNE EN ISO 527-1/2)		42,66	
Elasticity limit (N/mm ²) (UNE EN ISO 527-1/2)		31,38	
Elongation (%) (UNE EN ISO 527-1/2)		18,95	
Sound audible (dB) (UNE EN ISO 717-1)	27	28	29
Acoustic insulation (dB) (NBE-CA-88A)	25,5	26,6	27,6
Thermal resistance (m ² K/W) (UNE 92-202-89:1989)	0,0135	0,0179	0,027
Thermal conductivity (w/mk) (UNE 92-202-89:1989)	0,222	0,223	0,223
Metal thermal expansion	2,3 mm/m in 100°C		
Excellent performance in temperatures (°C)	From -50 to +80		
Flatness in temperatures (-20/+60) (°C)	Extraordinary		
Fire classification	UNE 23727 M1 INF P 92-501 M1		

Metal specifications

	2 layer, 3 layer or termolac [®]		
Alloy (UNE EN ISO 458-2)	5005 H22		
Ultimate tensile strength (N/mm ²) (UNE EN ISO 485-2)	130<Rm<165		
Elasticity limit (N/mm ²) (UNE EN ISO 485-2)	90<Rp _{0,2} <155		
Yield strength (%) (UNE EN ISO 485-2)	>7		
Modulus of elasticity (N/mm ²)	70000		

Paint specifications

	2 layer	3 layer	termolac [®]
Paint surface	PVdF 70% Kynar 500	PVdF 70% Kynar 500	HQP
Paint layers	2	3	1
Paint thickness (µm)	25±4µ	37±6µ	60±10µ
Anticorrosive pretreatment	Si	Si	Si

