

STIFERITE CLASS S

DESCRIPTION		STIFERITE CLASS S is an height performance insulation board with a rigid polyisocyanurate foam core, blown without CFC or HCFC, covered by saturated fiber glass on both faces.									
Characteristics	Symbol	Reference Normative	Description	Value				Units			
Average initial thermal conductivity	$\lambda_{90/90,i}$	EN 12667	Value determined at 10°C	0,024				W/mK			
Declared thermal conductivity	λ_D	EN 13165 Annessi A e C	Value determined at 10°C	0,028				W/mK			
Thickness	d_N	EN 823	Value determined at 10°C	Production standard from 20 to 100				mm			
				20	30	40	50		60	80	100
Thermal resistance	R_D^*	$R_D=d/\lambda_D$	Value	0,71	1,07	1,43	1,79	2,14	2,86	3,57	m ² K/W
Compression Strength	$S_{10} \text{ o } S_m$	EN 826	Value	160	150	150	160	160	150	150	kPa
Dimensional Stability	DS(TH)	EN 1604	(48+/-1)h @ (70+/-2)°C ed U.R. (90+/-5)%	1	1	1	1	1	1	1	Relative change in dimensions %
				6	6	5	4	3	4	4	Relative change in thickness %
			(48+/-1)h @ (-20+/-3)°C	0,5	0,5	0,5	0,5	0,5	0,5	0,5	Relative change in dimensions %
				1	1	1	1	1	1	1	Relative change in thickness %
Reaction to fire		EN 13501-1	EN 11925-2	E				Euroclass			
			EN 13823 (SBI)					Euroclass			
acoustic isolation to wall	R_w	UNI EN ISO 140-3:2006 and UNI EN ISO 717-1:1997	stratigraphy: 1) 15mm plaster 2) brick from 12 cm 3) STIFEIRTE CLASS S from 50 mm 4) brick from 8 cm 6) 15 mm plaster	54				dB			
Water vapor diffusion resistance factor	μ	EN 12086	Value	56 ± 2							
Water absorption	WL	EN 12087	Full immersion for 28 days	less then 2				%			
Tolerance (PUR EN 13165)											
Thickness, mm		< 50	from 50 to 75	>75				T2			
Tolerance, mm		+/- 2,0 mm	+/- 3,0 mm	+ 5,0 - 2,0 mm							
Dimensions, mm		< 1000	from 1000 to 2000	from 2000 to 4000				> 4000			
Tolerance, mm		+/- 5	+/-7,5	+/- 10				+/- 15			
Note											
Temperature stability	Stiferite panels are suitable for application in a range of continuous temperature from -40 °C up to + 110 °C. For short period they can be used up to + 200 °C or at temperature equivalent to the melting point of bitumen (if present in the facing). Exposure of the panels to high temperature for long period could cause deformation to foam or facers. Resistance for torch application or particular reaction to fire are related to the peculiar characteristic of products.										
Other information	To obtain further technical data call the green number 800840012										

Edition	Description	Author	Verified
Rev 5 del 05/07/2007	Technical data sheet STIFERITE CLASS S	F. Raggiotto	L. Tolin