





ems Kühlhauspaneele

HOESCH Bausysteme GmbH

Fire resistance classes for use as wall elements																
 Product	Fire resistance class		max. span [m]				Type	Element thickness (D) [mm]	required cover shell thickness ¹⁾ (t _{nom}) [mm]		Classification Report - No.	comments				
			Option 1 (in accordance with EN 14 509 and 1364-1)		Option 2 (in accordance with EN 15 254-5 *)								foam system			
	partition	external wall	orientation: v = vertical h = horizontal		orientation: v = vertical h = horizontal		outside	inside								
			v	h	v	h										
ems-isolier® Polar 	EN 13 501-2	EI 60	EI 60 (o ↔ i)	≤ 4,00	X			QuadCore	≥ 220	0,55 to 0,95	0,55 to 0,95	FIRES-CR-166-18-AUPE FIRES-ER-063-18-NURE	Please note the longitudinal joint construction according to classification report!			
		EW 60	EW 60 (o ↔ i)		X											
		EI 45	EI 45 (o ↔ i)	≤ 4,00	X		≤ 7,50	X	QuadCore	≥ 220	0,55 to 0,95			0,55 to 0,95		
		EW 45	EW 45 (o ↔ i)		X		X									
ems-isolier® Paneel EM 		EI 30	EI 30 (o ↔ i)	≤ 4,00	X		≤ 6,00	X	QuadCore	≥ 100	0,40 to 0,80	0,40 to 0,80	FIRES-CR-167-18-AUPE and FIRES-ER-064-18-NURE	Please note the longitudinal joint construction according to classification report!		
		EW 30	EW 30 (o ↔ i)		X		X									
		EI 45	EI 45 (o ↔ i)	≤ 4,00	X		≤ 6,00	X	IPN 3	≥ 200	0,40 to 0,80	0,40 to 0,80			FIRES-CR-168-18-AUPE and FIRES-ER-065-18-NURE	Please note the longitudinal joint construction according to classification report!
EI 30	EI 30 (o ↔ i)	≤ 4,00	X		≤ 7,50	X	IPN 3	≥ 200	0,40 to 0,80	0,40 to 0,80						
											EW 60	EW 60 (o ↔ i)	X			

¹⁾ min. and max. Cover sheet thickness. Outside the tolerance range no fire resistance class of the elements.

* EN 15254-5, Extended application of results from fire resistance tests

Fire resistance classes for use as ceiling elements								
Product	Fire resistance		max. span [m]	foam system	Element thickness (D) [mm]	Classification Report - No.	comments	
	class	Bearing / Flame Conditions						
ems-isolier® Polar 	EN 13501-2	EI 30	self-supporting ceiling made of sandwich panels/ Flame from below the ceiling "a←b"	≤ 4,40	QuadCore	≥ 140	FIRES-CR-018-18-AUPE	Please note the longitudinal joint construction according to classification report!