


HOESCH Bausysteme GmbH

Fire resistance classes for use as wall elements																		
 Product	Fire resistance class		max. span [m]						foam system	Element thickness (d) [mm]	Certificate / Test report	comments						
			Option 1 (in accordance with EN 14 509 and 1364-1)		Option 2 (in accordance with EN 15 254-5 *)		Option 3 (in accordance with EN 15 254-5 *) panel joints stitched every 3 m											
			partition	external wall	orientation: v = vertical h = horizontal		orientation: v = vertical h = horizontal						orientation: v = vertical h = horizontal					
	v	h			v	h	v	h										
ems-isolier® Kühlhauspaneel PU-FW FIREtec®		EI 15-ef (o → i)	≤ 4,00	X								≤ 12,00	X	TK 3D-12	≥ 100	FIRES-CR-094-10-AURE und FIRES-ER-019-10-NURE	Please note the longitudinal joint construction according to classification report!	
		EW 20-ef (o → i)		X							X							
		EI 30-ef (o → i)	≤ 4,00	X	X ¹⁾									TK 3D-12	≥ 100			
		EW 30-ef (o → i)		X	X ¹⁾													
		E 90-ef (o → i)	≤ 3,00	X	X ¹⁾									TK 3D-12	≥ 100			
		EW 60-ef (o → i)		X	X ¹⁾													
		EI 20	EI 20 (o ↔ i)	≤ 4,00	X	X ¹⁾								TK 3D-12	≥ 100	FIRES-CR-205-13-AUPE	Without fire protection strip in the longitudinal joint. Note construction according to classification report!	
		EW 20	EW 20 (o ↔ i)		X	X ¹⁾												
		EI 20	EI 20 (o ↔ i)	≤ 4,00	X	X ¹⁾	≤ 11,33	X					≤ 12,00	X	TK 3D-12	≥ 100	FIRES-CR-075-12-AURE	With fire protection strip in the longitudinal joint. Note construction according to classification report!
		EW 30	EW 30 (o ↔ i)		X	X ¹⁾						X						
		EI 30	EI 30 (o ↔ i)	≤ 3,00	X									TK 3D-12	≥ 100			
		EW 45	EW 45 (o ↔ i)		X													
		EI 30	EI 30 (o ↔ i)	≤ 4,00	X	X ¹⁾	≤ 12,00	X						TK 3D-12	≥ 150	FIRES-CR-010-10-AUPE und FIRES-ER-006-10-NURE	Please note the longitudinal joint construction according to classification report!	
		EW 30	EW 30 (o ↔ i)		X	X ¹⁾		X										
		EI 45	EI 45 (o ↔ i)	≤ 4,00	X	X ¹⁾	≤ 12,00	X						TK 3D-12	≥ 200	FIRES-CR-129-13-AURE und FIRES-ER-023-13-NURE	Please note the longitudinal joint construction according to classification report!	
		EW 45	EW 45 (o ↔ i)		X	X ¹⁾		X										
		EI 60	EI 60 (o ↔ i)	≤ 4,00	X	X ¹⁾								TK 3D-12	≥ 200	FIRES-CR-129-13-AURE		
		EW 60	EW 60 (o ↔ i)		X	X ¹⁾												
	E 240	E 240 (o ↔ i)	≤ 3,00	X	X ¹⁾								TK 3D-12	≥ 200	FIRES-CR-089-14-AURE			
	EW 180	EW 180 (o ↔ i)		X	X ¹⁾													
ems-isolier® Kühlhauspaneel PU FIREtec®	EN 13 501-2		EI 15-ef (o → i)	≤ 4,00	X	X	≤ 12,00		X				E 312	≥ 100	FIRES-CR-092-11-AURE und FIRES-ER-021-11-NURE	Please note the longitudinal joint construction according to classification report!		
			EW 15-ef (o → i)		X	X				X								
			EI 15-ef (o ↔ i)	≤ 4,00	X	X	≤ 11,55			X				E 312	≥ 100		FIRES-CR-133-11-AURE	
			EW 30-ef (o ↔ i)		X	X			X									
			EI 20-ef (o → i)	≤ 4,00	X	X								E 312	≥ 100		FIRES-CR-092-11-AURE	
			EW 20-ef (o → i)		X	X												
			EI 30-ef (o ↔ i)	≤ 4,00	X	X	≤ 11,55			X				E 312	≥ 100	FIRES-CR-133-11-AURE		
			EW 30-ef (o ↔ i)		X	X			X									
			EI 30-ef (o → i)	≤ 4,00	X	X ¹⁾	≤ 12,00		X					E 312	≥ 200	FIRES-CR-091-11-AURE und FIRES-ER-020-11-NURE	Please note the longitudinal joint construction according to classification report!	
			EW 30-ef (o → i)		X	X ¹⁾			X									
			EI 60-ef (o → i)	≤ 4,00	X	X ¹⁾								E 312	≥ 200	FIRES-CR-091-11-AURE		
			EW 120-ef (o → i)		X	X ¹⁾												
			E 90-ef (o → i)	≤ 4,00	X	X ¹⁾	≤ 10,26		X		≤ 12,00	X		E 312	≥ 200	FIRES-CR-091-11-AURE und FIRES-ER-020-11-NURE		
			EW 90-ef (o → i)		X	X ¹⁾			X	X								
			EI 15	EI 15 (o ↔ i)	≤ 4,00	X	X	≤ 9,26		X		≤ 12,00	X	E 312	≥ 100	FIRES-CR-052-10-AUPE und FIRES-ER-013-10-NURE	Please note the longitudinal joint construction according to classification report!	
			EW 15	EW 15 (o ↔ i)		X	X			X	X							
			EI 20	EI 15 (o ↔ i)	≤ 4,00	X	X							E 312	≥ 100			
			EW 20	EW 20 (o ↔ i)		X	X											
	EI 45	EI 45 (o ↔ i)	≤ 4,00	X	X ¹⁾	≤ 12,00		X				TK 3D-12	≥ 200	FIRES-CR-175-11-AURE und FIRES-ER-043-11-NURE	Please note the longitudinal joint construction according to classification report!			
	EW 45	EW 45 (o ↔ i)		X	X ¹⁾			X										
	EI 60	EI 60 (o ↔ i)	≤ 4,00	X	X ¹⁾	≤ 11,31		X		≤ 12,00	X	TK 3D-12	≥ 200					
	EW 60	EW 60 (o ↔ i)		X	X ¹⁾			X	X									

¹⁾ not applicable in Germany where AbP is valid

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