
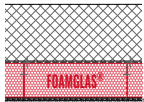
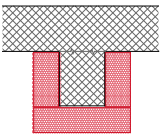
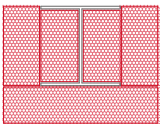
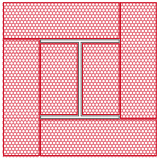
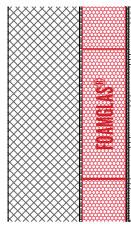


GENERAL				
CONSTRUCTION	DESCRIPTION FIRE RESISTANCE	CLASSIFICATION / RESULT	REPORT TYPE / NUMBER	REFERENCE DOCUMENT
general	Fire protection ability FOAMGLAS® T3+ 80 mm	K ₂ 30	Test report 20571A	EN 14135
			Classification report 20571C	EN 13501-2
	Fire protection ability FOAMGLAS® T4+ 80 mm	K ₂ 30	Test report 20571B	EN 14135
			Classification report 20571D	EN 13501-2

ROOF				
CONSTRUCTION	DESCRIPTION FIRE RESISTANCE	CLASSIFICATION / RESULT	REPORT TYPE / NUMBER	REFERENCE DOCUMENT
TDS 4.1.3 	FOAMGLAS® compact roof on steel deck + waterproofing FOAMGLAS® T3+ (140 mm)	REI 60'	Test report 20601A	EN 1365-2
			Classification report 20601B	EN 13501-2
	FOAMGLAS® compact roof on steel deck + waterproofing FOAMGLAS® T4+ (140 mm)	REI 120'	Test report 17169A	
			Classification EN 13501-2 report 17169B	EN 13501-2

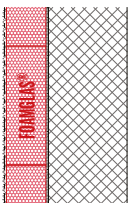
INTERIOR / CEILING & WALL				
CONSTRUCTION	DESCRIPTION FIRE RESISTANCE	CLASSIFICATION / RESULT	REPORT TYPE / NUMBER	REFERENCE DOCUMENT
TDS 3.3.X 	Concrete slab with FOAMGLAS® T4+ 50-150 mm + PC® 56 / PC® 74 + F-anchors	REI 90'	Test report 15411A - 15412A 15413A - 15414A Assessment Report 16001A	EN 1365-2 EN 13381-3
			Classification report 19271A	EN 13501-2
	Concrete slab with FOAMGLAS® T3+ 80-150 mm + PC® 56 / PC® 74 + F-anchors	REI 90'	Test report 20754C - 20755C	EN 1365-2
	Test report 20754A - 20755A		EN 13381-3	
	Classification report 20754D - 20755D		EN 13501-2	
TDS 3.3.X 	Concrete beam with FOAMGLAS® 50 mm + PC® 74 A2	REI extra fire protection +30'/+60'/+90' with FOAMGLAS® 50/100/150 mm	Test report 15410A Assessment report 16002	EN 1363-1 EN 13381-3
	Concrete beam with FOAMGLAS® 150 mm + PC® 74 A2		Test report 15409A Assessment report 16002	EN 1363-1 EN 13381-3

CONSTRUCTION	DESCRIPTION FIRE RESISTANCE	CLASSIFICATION / RESULT	REPORT TYPE / NUMBER	REFERENCE DOCUMENT
TDS 3.3.X 	Steel supports and steel beams / columns with FOAMGLAS® 50 mm	REI extra fire protection +30' with FOAMGLAS® 50 mm	Test report 15403A - 15405A Assessment report 15999	EN 1363-1 EN 13381-4
TDS 3.3.X 	Steel beams H-I with FOAMGLAS® 50 mm	REI extra fire protection +30' with FOAMGLAS® 50 mm	Test report 15813A Assessment report 16000A	EN 1363-1 EN 13381-4
	Steel beams H-I with FOAMGLAS® 160 mm		Test report 15812A Assessment report 16000A	EN 1363-1 EN 13381-4
TDS 3.2.X 	Masonry wall, non-bearing, FOAMGLAS® T4+ 50 mm + PC® 56 / PC® 74	REI extra fire protection +30'/+60'/+90' with FOAMGLAS® 50/100/150 mm	Test report 15400A 15400A - 15401A Classification report 15400B 15400B - 15401B Assessment report 15651A	EN 1364-1 EN 13501-2
	Masonry wall, non-bearing, FOAMGLAS® T4+ 150 mm + PC® 56 / PC® 74		Test report 15483A Classification report 15483B Assessment report 15651A	EN 1364-1 EN 13501-2
	Masonry wall, load-bearing, FOAMGLAS® T4+ 50 mm + PC® 56 / PC® 74		Test report 15484A Classification report 15484B Assessment report 15651A	EN 1365-1 EN 13501-2
	Masonry wall, load-bearing, FOAMGLAS® T3+ 80 mm + PC® 56 / PC® 74	REI extra fire protection +30'/+60'/+90' with FOAMGLAS® 80/120/150 mm	Test report 20952A Classification report - pending	EN 1365-1 EN 13501-2
	Masonry wall, load-bearing, FOAMGLAS® T3+ 150 mm + PC® 56 / PC® 74		Test report 20960A Classification report - pending	EN 1365-1 EN 13501-2

FACADE

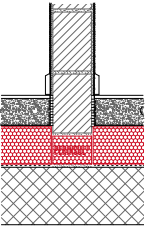
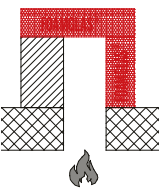
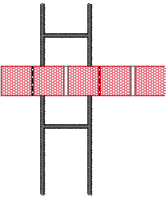
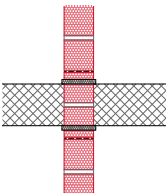
Ventilated façade:

- External with brickslips
- External with rendering

CONSTRUCTION	DESCRIPTION FIRE RESISTANCE	CLASSIFICATION / RESULT	REPORT TYPE / NUMBER	REFERENCE DOCUMENT
TDS 1.2.X 	Ventilated façade FOAMGLAS® T3+ 180 mm with cladding fibre cement (15 kg/m²) & ceramic tiles (45 kg/m²) on steel frame	Test passed External & internal fire Ts +600°C - 5 m level 2 & mechanical performance	Test report 19137A	BS 8414-1
	Façade FOAMBRICK® FOAMGLAS® W+F 160 mm + glued brickslips	Test passed External & internal fire Ts +600°C - 5 m level 2 & mechanical performance Class A2	Test report 19212A ISIB-assessment 2018-A-058	BS 8414-2 EN 13501-1 BS 8414-1&2
	ETICS with FOAMGLAS® W+F (80 mm) + coat finish	Test passed (after 40 min. of fire exposure of 40 kW/m² the test is stopped) (combustion chamber 900 kW, window 400 kW)	Thomas & Bell Wright PC120	NFPA 285 (2012)

SPECIAL LINEAR APPLICATIONS

Thermal breaks/part of masonry • Cavity breaks/part of ventilated façades
Fire sealant penetrations/part of internal walls and/or ceilings

CONSTRUCTION	DESCRIPTION FIRE RESISTANCE	CLASSIFICATION / RESULT	REPORT TYPE / NUMBER	REFERENCE DOCUMENT
THERMAL BREAK - masonry wall				
<i>FOAMGLAS® PERINSUL HL (≥ 140 mm width) at the bottom of a masonry wall (max load of 0.55 N/mm²) in combination with screed</i>				
TDS 5.2.X 	With perforated clay bricks	REI 120 / REW 180 / RE 180	Test report 15485A Classification report 15485B ETA 18-0636	EN 1365-1 EN 13501-2 EAD 170018-00-0305
	With calcium silicate blocks	REI 240 / REW 240 / RE 240	Test report 15485A Classification report 15485B ETA 18-0636	EN 1365-1 EN 13501-2 EAD 170018-00-0305
CAVITY BREAK - ventilated façade				
<i>FOAMGLAS® ONE horizontally positioned integrated in the wall & sealed off</i>				
TDS 1.2.X 	Cavity width 100 mm Thickness FG ONE 150 mm, sealed with Pittseal® CW of PC® 74 A1	EI 70	Test report 19756C	EN 1363-1
INTERNAL wall/ceiling penetrations - fire sealant penetrations				
<i>FOAMGLAS® pipe shells, horizontally and/or vertical positioned penetrating a fire wall and sealed with Pittseal® CW or PC® 18</i>				
	Vertical wall (masonry and light weight walls)	EI 90 to 120	Test report 17635A - 17637A - 19755A Classification report 17872A ETA 20-1194	EN 1366-3 EN 13501-2 EAD 350454-00-1104
	Horizontal-ceiling (concrete)	EI 90 to 120	Test report 17637A - 17781A - 19756A Classification report 17872A ETA 20-1194	EN 1366-3 EN 13501-2 EAD 350454-00-1104

LEGEND

Classification fire resistance: cf EN 13501-2

- class R.. - "loadbearing capacity" - ability of a construction element to withstand fire exposure under a specified mechanical action for a period of time (minutes) without any loss of structural stability (e.g. too high deflection, contraction, collapse, ...)
- class E.. - "integrity" - ability of a construction element, that has a separating function, to withstand fire exposure on one side only for a period of time (minutes), without the transmission of fire to the unexposed side as a result of the passage of flames or hot gasses (e.g. no cracks/openings; no ignition of a cotton pad, no sustained flaming on the unexposed side)
- class I .. - "thermal insulation" - ability of a construction element, that has a separating function, to withstand fire exposure on one side only for a period of time (minutes), without the transmission of fire as a result of significant heat transfer from the exposed side to the unexposed side.
General criteria: temperature raise between exposed/unexposed side mean $\Delta 140^{\circ}\text{C}$ with at any point max $\Delta 180^{\circ}\text{C}$.
- class K.. - "fire protection ability" - ability of a wall or ceiling covering to provide for the material behind the covering protection against ignition, charring and other damage for a specified period of time. Test done horizontally (EN 14135) with as system positioned against a chipboard. General criteria : temperature raise between exposed/unexposed side mean $\Delta 140^{\circ}\text{C}$ with at any point max $\Delta 180^{\circ}\text{C}$.
- in principal, other classes are also possible depending special cases: W (radiation); M (mechanical action); C (self-closing); S (smoke leakage); G (soot fire)

Classification fire reaction: cf EN 13501-1

- General construction products - with classes A1-A2, B, C, D, E, F (non-combustibility, calorific value, heat release, fire growth, fire spread,...) with subclasses s1, s2, s3 (smoke) and d0, d1, d2 (droplets)
- For floorings - with classes A1_{f1}-A2_{f1}, B_{f1}, C_{f1}, D_{f1}, E_{f1}, F_{f1} (non-combustibility, calorific value, heat release, fire growth, fire spread,...) with subclasses s1, s2 (smoke)
- For linear products - with classes A1_L-A2_L, B_L, C_L, D_L, E_L, F_L (non-combustibility, calorific value, heat release, fire growth, fire spread,...) with subclasses s1, s2, s3 (smoke) and d0, d1, d2 (droplets)