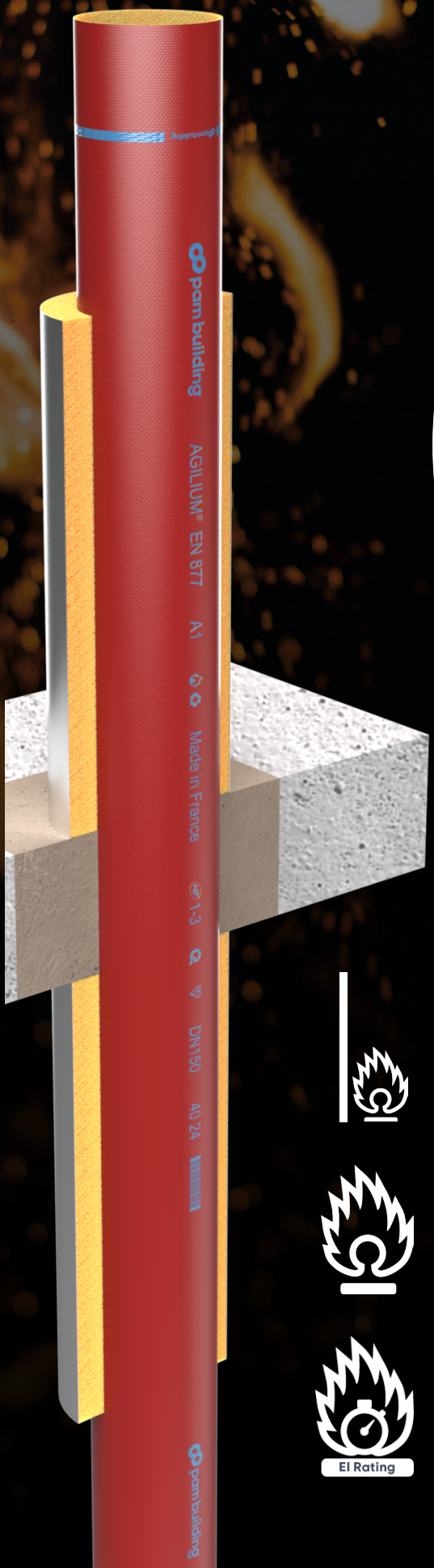
pam building



Specifying a **fire tested system**

Fire resistance is a fundamental requirement in building design, including where building services penetrate fire-separating walls and floors. The subject must be approached as a system-based discipline rather than a single-product consideration.

Fire resistance describes the ability of a building element to maintain its integrity, insulation and, where relevant, loadbearing capacity for a defined period when exposed to fire.

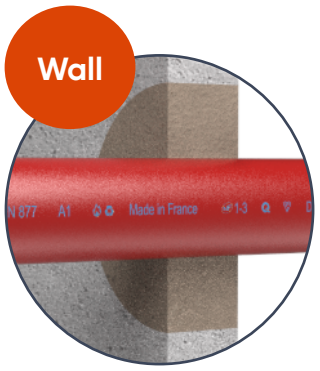
These performance criteria are measured through full-scale fire resistance testing and expressed in time periods between 30 and 240 minutes.
(EI Rating)

Pam Building Guidance:

To specify a fire-tested system through a Slab/Wall application.

In the tables below, Pam Building offers tested result guidelines to achieve EI-ratings in slabs from 60-120+mins and on walls 45 up to 240. These are all covered in the Classification report EFR-025-001196, where Pam Building have evidenced the testing of the systems.





Fire Resistance Requirements			System Components	
EI Requirement	DN	Concrete Slab Depth (MIN)	Ultibat Mortar	Alu 2 Insulation
EI 60		150mm		N/A
EI 90	50	200mm	YES	N/A*
EI 120+		150mm		2 x 600x30mm
EI 60		150mm		N/A
EI 90	70/75	200mm	YES	N/A*
EI 120+		150mm		2 x 600x30mm
EI 60		150mm		N/A
EI 90	100	200mm	YES	N/A*
EI 120+		150mm		2 x 600x30mm
EI 60		180mm		N/A
EI 90	125	200mm	YES	N/A*
EI 120+		180mm		2 x 600x40mm
EI 60		180mm		N/A
EI 90	150	180mm	YES	2 x 600x40mm
EI 120+		180mm		2 x 600x40mm
EI 60		180mm		2 x 600x40mm
EI 90	200	180mm	YES	2 x 600x40mm
EI 120+		200mm		2 x 600x30mm
EI 60		180mm		2 x 600x40mm
EI 90	250	180mm	YES	2 x 600x40mm
EI 120+		180mm		2 x 600x40mm
EI 60		180mm		2 x 600x50mm
EI 90	300	180mm	YES	2 x 600x50mm
EI 120+		200mm		2 x 1200x40mm

Fire Resistance Requirements			System Components	
EI Requirement	DN	Concrete Wall Depth (MIN)	Ultibat Mortar	Alu 2 Insulation
EI 45		150mm		N/A
EI 60	50	150mm	YES	2 x 600x40mm
EI 90		150mm		2 x 600x40mm
EI 120+		150mm		2 x 600x40mm
EI 45		150mm		N/A
EI 60		150mm	YES	2 x 600x40mm
EI 90	70/75	150mm		2 x 600x40mm
EI 120+		150mm		2 x 600x40mm
EI 45		150mm		N/A
EI60		150mm	YES	2x 600x40mm
EI 90	100	150mm		2 x 600x40mm
EI 120+		150mm		2 x 600x40mm
EI 45		150mm		N/A
EI 60		150mm	YES	2 x 600x40mm
EI 90	125	150mm		2 x 600x40mm
EI 120+		150mm		2 x 600x40mm
EI 45		150mm		N/A
EI 60		150mm	YES	2 x 600x40mm
EI 90	150	150mm		2 x 600x40mm
EI 120+		150mm		2 x 600x40mm
EI 30		180mm		N/A
EI 60		150mm	YES	2 x 600x40mm
EI 90	200	150mm		2 x 600x40mm
EI 120+		180mm		2 x 600x40mm
EI 60		150mm		2 x 600x40mm
EI 90	250	150mm	YES	2 x 600x40mm
EI 120+		150mm		2 x 600x40mm
EI 60	300	150mm	YES	2 x 600x50mm
EI 90		150mm		2 x 600x50mm

Online fire system configurator available soon ...



Specifying a **fire tested system**

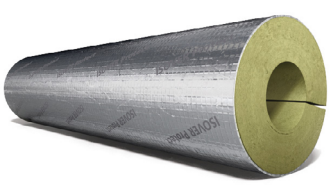
A key principle emphasised by Pam Building is that fire resistance can only be demonstrated through tested systems. Pipes, insulation (if needed), fire-stopping materials, and the surrounding construction must all perform together under fire conditions.

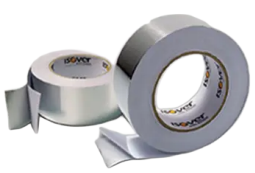
Substituting components or altering installation could compromise compliance. In relation to our guidance tables for slab and wall applications on page 2, we have produced a group of fire standard details to choose from based on the specific requirements of the project. Our standard details enable everyone in the supply chain to understand exactly how the system is to be installed on site in adherence to specification.

Here are the component products that make up a cast iron fire tested system.

SPECIFYING FIRE TESTED SYSTEM







SIZE Ø mm	SIZE MM	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲ ΔDSC.	PRODUCT CODE	UNIT PRICE £

ΔDSC Delivery Service Category timescales – Products generally of lower demand – some stock may be held or made to order.

Ultibat Mortar M20 - 25kg

–	–	1	25	C	295830	**31.18**

IsoverAlu2 Insulation x 1.2 m

50	30	16	0.87	C	297113	**21.66**
	40	9	1.26	C	297114	**27.38**
70/75	30	12	1.02	C	297115	**26.56**
	40	9	1.43	C	297116	**32.97**
100	30	6	1.42	C	297117	**34.38**
	40	5	1.93	C	297118	**42.51**
150	30	6	2.46	C	296894	**41.09**
	40	5	3.15	C	296945	**53.67**
200	30	1	3.17	C	297119	**87.88**
	40	1	3.91	C	297120	**130.45**

Note: Ø 125,250 and 300 are available price on application.

Aluminium Tape Coroplast 930 x 100m

–	50	18	0.43	C	297099	**£22.71**

Scan the QR code
to view all data sheets for
fully tested fire system

