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Testing. Advising. Assuring.

EWFA CERTIFICATE OF ASSESSMENT	CERTIFICATE No : SFC 22953c-07	Page 1 of 3

Report Sponsor	Certificate Issue Date	Product Name
Sekisui Chemical Co., Ltd. 2-3-17, Toranomon, Minato-ku, Tokyo, 105-0198, Japan	04/06/2012	**Sekisui Fi-Block™ ST30, ST40-Hollow Masonry Walls**

Assessment Report Reference	Test Methods	Report Issue Date	Report Validity Date
EWFA 22953-07	AS1530.4-2005 and AS4072.1-2005	04/06/2012	31/05/2015

Introduction

The element of construction described below was assessed by this laboratory on behalf of the report sponsor in accordance with the stated test standard and achieved the results stated below. Refer to the referenced test report(s) or Regulatory Information Reports for more information.

Table 1 - Performance of Fi-Block™ protecting insulated pipe in Hollow Masonry wall

Max. Pipe Ø (mm)	Min. Pipe Wall Thickness (mm)	Insulation Material (Table 3)	Insulation Tube (Item 2) Thickness (mm)	Fire Stopping Strip (Item 3, 11)	FRL
Refer Table 2		(b), (c), (d) or (e)	30	ST30	**-/120/30**
		(a)	30	ST30	**-/120/-**
		(a), (b), (c), (d) or (e)	40	ST40	**-/90/-**
Refer Table 2		(b), (c), (d) or (e) + (f)	30	ST30	**-/120/120**
		(a) + (f)	30	ST30	**-/120/120**
		(a), (b), (c), (d) or (e) + (f)	40	ST40	**-/90/90**

Conditions/Validity

- THIS CERTIFICATE IS PROVIDED FOR GENERAL INFORMATION ONLY AND DOES NOT COMPLY WITH THE REGULATORY REQUIREMENTS FOR EVIDENCE OF COMPLIANCE.
- Reference should be made to the relevant test report or regulatory information report to determine the applicability of the test result to a proposed installation. Full details of the constructions and justification for the conclusions given, along with the validity statements, are given in the assessment reports.
- The assessment report or short form assessment report does not provide an endorsement by Exova Warringtonfire Aus Pty Ltd of the performance of the actual products supplied. This certificate of assessment has been compiled by Exova Warringtonfire Aus Pty Ltd for Sekisui Chemical Co Ltd. It is intended to provide a brief outline of the above referenced assessment reports and not to replace them.
- The conclusions in this certificate of assessment relate to the configurations as detailed, and should not be applied to any other configuration. The conclusions expressed in this document assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all conditions.
- Full copies of the assessment and relevant test reports may be obtained from the sponsor.

TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd	
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Authorisation	Prepared By: S. Hu	Reviewed By: K. G. Nicholls

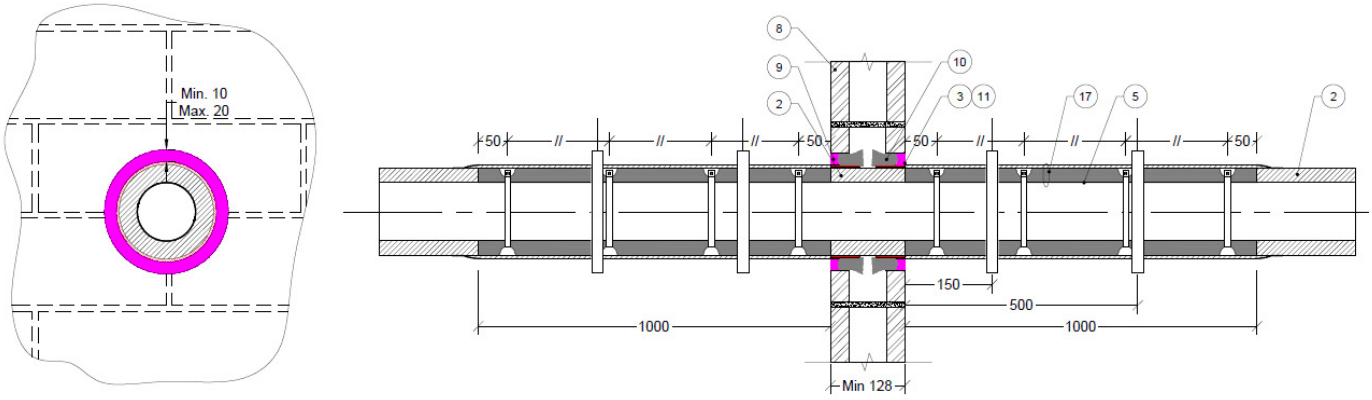
Table 1 - Performance of Fi-Block™ protecting insulated pipe in Hollow Masonry Wall (continued)					
Max. Pipe Ø (mm)	**Min. Pipe Wall Thickness (mm)**	**Insulation Material (Table 3)**	**Insulation Tube (Item 2) Thickness (mm)**	**Fire Stopping Strip (Item 3, 11)**	**FRL**
13	0.71	(a) or (b)	30	ST30	**-/180/90**
		(c), (d) or (e)	30	ST30	**-/120/90**
		(a), (b), (c), (d) or (e)	50	ST40	**-/120/90**
13	0.71	(a) or (b) + (f)	30	ST30	**-/180/120**
		(c), (d) or (e) + (f)	30	ST30	**-/120/120**
		(a), (b), (c), (d) or (e) + (f)	50	ST40	**-/120/120**

Table 2 – Pipe Details		
Nominal Size (mm)	**Actual Ø (mm)**	**Actual Wall Thickness (mm)**
100	101.60	1.22
90	88.90	1.22
80	76.20	1.22
65	63.50	0.91
50	50.80	0.91
40	38.10	0.91
32	31.75	0.91

Table 3 - Insulation Material	
a	Polyethylene laminated with aluminium foil ('THERMOBREAK' by Sekisui Pilon)
b	Polyethylene (by Sekisui Pilon)
c	Acrylonitril Butadiene Rubber ('ARMAFLEX' by Armacel)
d	Ethylene Propylene Diene Rubber ('AEROFLEX' by Eastern Polymer Industry)
e	Acrylonitril Butadiene Rubber / PVC ('K-FLEX' by L'Isorante K-Flex)
f	38mm thick Fibretex 450 Rockwool

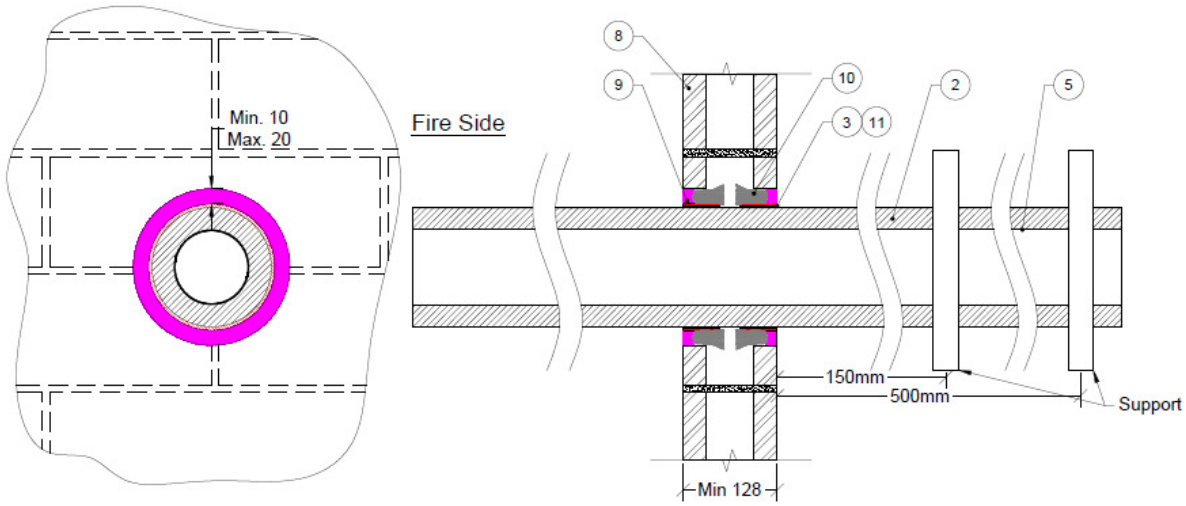
Table 4 - Schedule of Components	
Item	**Description**
2	Insulation Tube Thickness Table 1, Material Table 3
3	Fire Stopping Strip, ST40. The Fi-Block™ strips may be scored on one side by pressing grooves into the material without removing material from the strip.
5	Metal pipe Refer Table 1 and Table 2
8	Hollow Masonry Wall
9	Fire rated sealant (refer to EWFA 22953-02)
10	Backing Material
11	Fire Stopping Strip, ST30. The Fi-Block™ strips may be scored on one side by pressing grooves into the material without removing material from the strip.
17	Rockwool Insulation wrapped with 5mm thick Thermobreak

Figure 1- Typical arrangement of pipe penetration in Hollow Masonry Wall with Rockwool



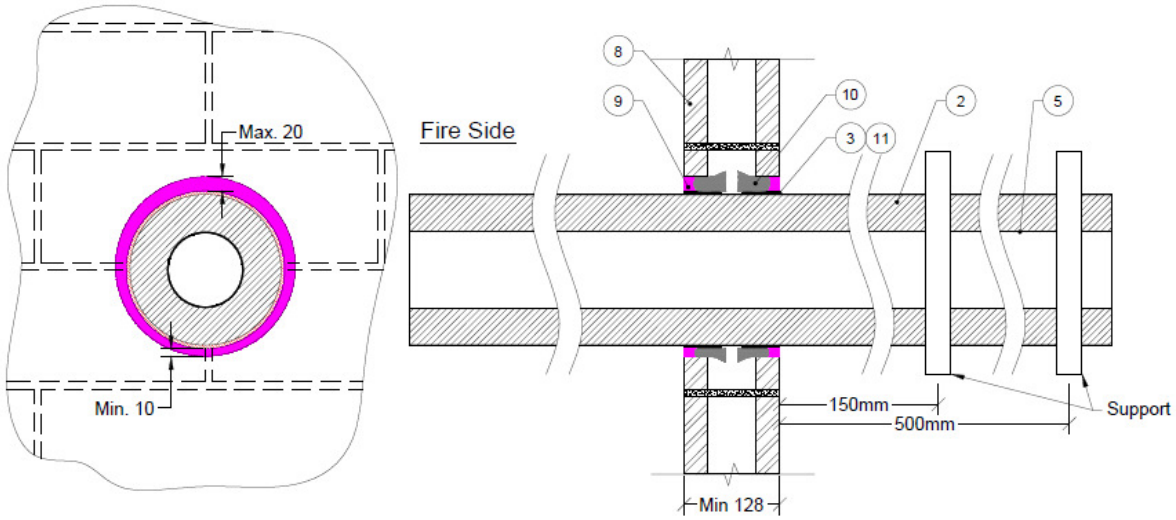
Note: Multiple pipes are permitted, provided the separation from aperture edge to aperture edge is at least 40mm.

Figure 2 - Typical arrangement of pipe penetration in Hollow Masonry Wall



Note: Multiple pipes are permitted, provided the separation from aperture edge to aperture edge is at least 40mm.

Figure 3 - Typical arrangement of pipe penetration in Hollow Masonry Wall, Pipe scooted



Note: Multiple pipes are permitted, provided the separation from aperture edge to aperture edge is at least 40mm.