

CERTIFICATE OF CONFORMITY

This is to certify that

Walraven Pte Ltd

160 Kallang Way
#01-03/04
Singapore 349246
UEN: 201932725E

has been assessed and found to meet the requirements of PLS - Scheme Type 5 for

Product:	Fire Stopping Material
Brand:	Walraven
Model:	Pacifyre® AWM II
Country of Origin:	The Netherlands
Product Details:	Fire Collar See COC Appendix (1 page) for Fire Performance
Test Standard(s):	BS 476-20:1987
Test Report(s):	Sirim No. 2021FE0264 STS No. 04505-0421-01281-MEFT

This certificate issued in accordance with SCDF Fire Code requirements.



Eric Law

Head of Certification

For and on behalf of Element Testing Services (S) Pte Ltd

Certificate number:
21A0421

Issue number: 01

Date of initial certification:
28 May 2021

Date of revision:
09 May 2024

Expiry date:
27 May 2026

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Issuing Office: 249 Jalan Boon Lay Singapore 619523
Registered Office: 249 Jalan Boon Lay Singapore 619523
UEN 198004219D

This certificate remains the property of Element Testing Services (S) Pte Ltd.

This certificate and all copies or reproductions of the certificate shall be returned to Element Testing Services (S) Pte Ltd or destroyed if requested.

Further clarification regarding the scope of this certificate and verification of the certificate is available through Element Testing Services (S) Pte Ltd or at the above address or at <https://www.certificationsingapore.element.com/>

The use of the SAC accreditation mark indicates accreditation in respect of those activities covered by the accreditation number PD-2010-12. This Certificate is part of a full report and should be read in conjunction with it.

For further information on Element Testing Services (S) Pte Ltd activities covered by SAC accreditation can be accessed at: <https://www.sac-accreditation.gov.sg/accredited-org/certified-cab-companies>



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Appendix

Product Details:

Fire Performance of Penetration Gap Sealing System

Separating Element	Test Specimen	Aperture Size (mm)	Penetration Services	Fire Collar	Description	Integrity (mins)	Insulation (mins)
200mm thick masonry wall	A	250 x 250	Pre-Insulated pipe consists of nominal size Ø125mm HDPE pipe with wall thickness of 17.5mm, insulated with a 0.4mm thick GI steel jacket infilled with polyurethane foam of 34.5mm thick	Pacifyre® AWM II Fire Collar 226mm - 250mm	Fire collar with 25mm thick nitrile foam rubber was fitted to the pipe onto the wall on both fire exposed and unexposed sides, with the penetration gap sealed up with Walraven Pacifyre® FPM mortar.	120	120
	B	200 x 200	Pre-Insulated pipe consists of nominal size Ø120mm HDPE pipe with wall thickness of 10mm, insulated with a 0.4mm thick GI steel jacket infilled with polyurethane foam of 30.5mm thick	Pacifyre® AWM II Fire Collar 181mm - 200mm		120	120
	C	315 x 315	Pre-Insulated pipe consists of nominal size Ø180mm HDPE pipe with wall thickness of 22.5mm, insulated with a 0.4mm thick GI steel jacket infilled with polyurethane foam of 45.5mm thick	Pacifyre® AWM II Fire Collar 301mm - 315mm		120	120
	D	400 x 400	Pre-Insulated pipe consists of nominal size Ø250mm HDPE pipe with wall thickness of 32.5mm, insulated with a 0.4mm thick GI steel jacket infilled with polyurethane foam of 43mm thick	Pacifyre® AWM II Fire Collar 356mm - 400mm		120	120

For more details, please refer to Sirim No. 2021FE0264 and STS No. 04505-0421-01281-MEFT