



PVC-U CONDUIT AND FITTINGS

MANUFACTURED TO BRITISH STANDARDS

DELIVERING INNOVATION

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NO1
FOR CABLE CONTAINMENT

PVC-U CONDUIT AND FITTINGS

MARSHALL TUFFLEX

Marshall-Tufflex is the UK's leading manufacturer of cable management solutions producing a wide range of PVC-U conduit and trunking systems to a worldwide market.

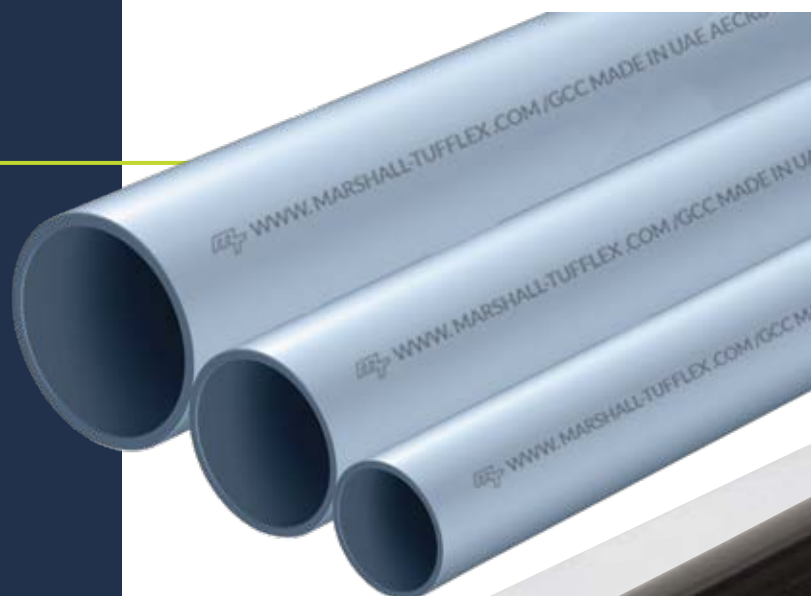
Based in Hastings, East Sussex, Marshall-Tufflex was established in 1942 and is recognised for quality, consistency, reliability and innovation.



British Standards

BS EN IEC 61386-21:2021+A11:2021

Products are manufactured in KEZAD, Abu Dhabi to Marshall-Tufflex's high specification and standards.





Introduction to Vivasvaan Industrial Co. In Partnership with Marshall-Tufflex

Vivasvaan Industrial Co., takes pride to collaborate with Marshall-Tufflex, a renowned UK-based leader in cable management systems. Through a strategic licensing agreement, Vivasvaan is authorized to manufacture and distribute the complete range of PVC-U conduits and accessories under the Marshall-Tufflex brand across the GCC and Arab region.

Our state-of-the-art production facility in KEZAD not only serves the UAE market but also actively caters to regional demand across Saudi Arabia, Qatar, Bahrain, Oman, Kuwait, and Jordan.

Vivasvaan manufactures a comprehensive range of conventional PVC-U & Low Smoke and Fume (LSF) conduits and accessories in Black, White, and Grey, available in sizes from 20mm to 50mm, along with surface-mounted and flush-mounted switch boxes.

All Marshall-Tufflex products manufactured in Abu Dhabi are certified to meet the highest international quality standards. They proudly bear the SASO Quality Mark and the prestigious British Standards Institution (BSI) Kitemark — making them the only conduit products in the GCC region to hold this distinction. Each product is marked with the Kitemark symbol, serving as a guarantee of exceptional quality, performance, and compliance that distinguishes us from competitors.

Products manufactured at Vivasvaan's KEZAD facility are already being supplied to several landmark construction developments across the region, reflecting the strong confidence placed in our manufacturing expertise and the superior quality of the Marshall-Tufflex range.



4 | Conduit and Fittings

ROUND CONDUIT AND FITTINGS

Round conduit made from specially formulated super high impact self-extinguishing PVC-U compound.

Product information

Conduit

- Light, medium or heavy gauge options
- Certified to requirements for BS EN IEC 61386-1:2008+A1:2019, BS EN IEC 61386-21:2021+A11:2021, BS EN IEC 61386-22:2021+A11:2021 and BS EN IEC 61386-23:2021+A11:2021 SASO GSO IEC 61386-1, SASO GSO IEC 61386-21 where applicable.

Boxes

- Provision for MET1 brass earth terminal
- All boxes have threaded brass inserts



Standard Colours	
WH	BK
WH: White BK: Black	

Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

The British Standards Institution's Kitemark symbol  indicating that they are manufactured under a certified system of supervision, control, and testing, including periodic inspection of the manufacturer's facilities in accordance with the Certification Mark Scheme.

Round conduit Pipes



Plain end round conduits

Light gauge

code	O.D	len
AECR2	20mm	20 x 2.9m
AECR3	25mm	20 x 2.9m
AECR4	32mm	10 x 2.9m
AECR9	38mm	10 x 2.9m
AECR10	50mm	5 x 2.9m

Medium gauge

code	O.D	len
AECR14	20mm	20 x 2.9m
AECR16	25mm	20 x 2.9m
AECR18	32mm	10 x 2.9m
AECR20	38mm	10 x 2.9m
AECR22	50mm	5 x 2.9m

Heavy gauge

code	O.D	len
AECR6	20mm	20 x 2.9m
AECR7	25mm	20 x 2.9m
AECR8	32mm	10 x 2.9m
AECR11	38mm	10 x 2.9m
AECR12	50mm	5 x 2.9m

Frame Quantity

O.D	len
20mm	5000 x 2.9m
25mm	3000 x 2.9m
32mm	1800 x 2.9m
38mm	1300 x 2.9m
50mm	750 x 2.9m

Socketed end round conduits

Light gauge

code	O.D	pack
AECR2SK	20mm	20 x 2.9m
AECR3SK	25mm	20 x 2.9m
AECR4SK	32mm	10 x 2.9m
AECR9SK	38mm	10 x 2.9m
AECR10SK	50mm	5 x 2.9m

Medium gauge

code	O.D	pack
AECR14SK	20mm	20 x 2.9m
AECR16SK	25mm	20 x 2.9m
AECR18SK	32mm	10 x 2.9m
AECR20SK	38mm	10 x 2.9m
AECR22SK	50mm	5 x 2.9m



Plain end round conduits

Light gauge

code	O.D	len
AEKMCR2	20mm	20 x 2.9m 
AEKMCR3	25mm	20 x 2.9m 
AEKMCR4	32mm	10 x 2.9m 
AEKMCR9	38mm	10 x 2.9m 
AEKMCR10	50mm	5 x 2.9m 

Medium gauge

code	O.D	len
AEKMCR14	20mm	20 x 2.9m 
AEKMCR16	25mm	20 x 2.9m 
AEKMCR18	32mm	10 x 2.9m 
AEKMCR20	38mm	10 x 2.9m 
AEKMCR22	50mm	5 x 2.9m 

Heavy gauge

code	O.D	len
AEKMCR6	20mm	20 x 2.9m 
AEKMCR7	25mm	20 x 2.9m 
AEKMCR8	32mm	10 x 2.9m 
AEKMCR11	38mm	10 x 2.9m 
AEKMCR12	50mm	5 x 2.9m 

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Socketed end round conduits

Heavy gauge

code	O.D	len
AEKMCR6SK	20mm	20 x 2.9m 
AEKMCR7SK	25mm	20 x 2.9m 
AEKMCR8SK	32mm	10 x 2.9m 
AEKMCR11SK	38mm	10 x 2.9m 
AEKMCR12SK	50mm	5 x 2.9m 

Round conduit fittings



Straight couplers

code	size	pack
AEMC2	20mm	100
AEMC3	25mm	60
AEMC4	32mm	30
AEMC5	38mm	20
AEMC6	50mm	09



Expansion couplers *

code	size	pack
AEMEC2	20mm	50
AEMEC3	25mm	30
AEMEC4	32mm	20
AEMEC5	38mm	12
AEMEC6	50mm	5



Reducers

code	size	pack
MR2†	25 x 20mm	50



Plain bends

code	size	pack
AEMNB2	20mm	100
AEMNB3	25mm	60
AEMNB4	32mm	25
AEMNB5	38mm	10
AEMNB6	50mm	5

Round conduit fittings



Adaptors (Female thread) with male bushes

code	size	pack
AEMAB2	20mm	100
AEMAB3	25mm	75
AEMAB4	32mm	40
AEMAB5	38mm	30
AEMAB6	50mm	12



Adaptors (Male thread) with check ring

code	size	pack
IMMA7	20mm	
IMMA8	25mm	



Male bushes

code	size	pack
AEMMB2	20mm	500
AEMMB3	25mm	300
AEMMB4	32mm	150
AEMMB5	38mm	100
AEMMB6	50mm	40



Adaptors (Female thread) with male bush on both sides

code	size	pack
IMDA2	20mm	100
IMDA3	25mm	75



Round 'U' clips

code	size	pack
IMMMC2	20mm	100
IMMMC3	25mm	50
IMMMC4	32mm	25



Spacer bar saddles

code	size	pack
AEMSB2	20mm	100
AEMSB3	25mm	100
AEMSB4	32mm	60
AEMSB5	38mm	50
AEMSB6	50mm	30



Strap saddles

code	size	pack
AEMSS2	20mm	100
AEMSS3	25mm	100
AEMSS4	32mm	60
AEMSS5	38mm	50
AEMSS6	50mm	50

* Should be fitted over a clear gap between two round rigid conduits

† Currently not being produced in UAE. Imported from Marshall-Tufflex.

Currently not being produced in UAE. Imported from P.R.C



Kitemark™ Certificate

This is to certify that:

Vivasvaan Industrial Co. (SP) LLC
A5, Building No.11, KEZAD
P.O Box 93180
Abu Dhabi
United Arab Emirates

Holds Certificate Number:

KM 818543

In respect of:

BS EN IEC 61386-21
Conduit systems for cable management. Rigid conduit systems

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI:

Shahm Barhom, Group Product Certification Director

First Issued: 2025-08-21
Latest Issue: 2025-08-21

Effective Date: 2025-08-21
Expiry Date: 2028-05-11

Page: 1 of 6



This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PS, United Kingdom and should be returned immediately upon request.
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](https://www.bsi.com/uk/certificates).
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A member of BSI Group of Companies.

6 | Conduit and Fittings

Circular boxes



Loop-in boxes

code	size	pack
AE2MRB12	4 x ø20mm KO	25
AE3MRB12	2 x ø25mm KO	25
AE4MRB12	1 x ø20mm + 1 x ø25mm KO	25



Terminal 1-way

code	size	pack
AE2MRB2	20mm	20
AE3MRB2	25mm	20



Through 2-way

code	size	pack
AE2MRB3	20mm	20
AE3MRB3	25mm	12

Circular boxes

PVC-U plain bored circular boxes are suitable for suspending loads of up to 3kg centrally at 60°C maximum. Fixing centres are at 50.8mm and fitted with M4 brass inserts.



Angle 2-way

code	size	pack
AE2MRB4	20mm	20
AE3MRB4	25mm	15



Tee 3-way

code	size	pack
AE2MRB5	20mm	15
AE3MRB5	25mm	10



Intersection 4-way

code	size	pack
AE2MRB6	20mm	15
AE3MRB6	25mm	10



Branch 2-way or U

code	size	pack
AE2MRB13	20mm	20
AE3MRB13	25mm	20



Branch 3-way or Y

code	size	pack
AE2MRB14	20mm	15
AE3MRB14	25mm	10



Twin through way or H

code	size	pack
AE2MRB15	20mm	15
AE3MRB15	25mm	10

Circular box fittings



Circular rubber gasket

code	size	pack
AEMRG1	66mm diam	100

Black only



Circular lids

code	size	pack
AEMCL1	flush fitting (65mm diam)	75
MCL2†	overlapping (85mm diam)	50



Circular extension ring

code	size	pack
IMME2	20mm	
IMME3	25mm	

Adaptable boxes



IP65 Rating

ABS Adaptable boxes

code	external size	pack
IMMTAB100A	110 x 110 x 74mm	10
IMMTAB150B	150 x 150 x 80mm	10
IMMTAB200B	200 x 200 x 80mm	4



IP66 Rating

PVC-U Adaptable boxes

code	external size	pack
AEMTAB100A	106 X 106 X 67mm	
AEMTAB150B	155 X 155 X 92mm	
AEMTAB200B	230 X 230 X 82mm	
IMMTAB300B	300 X 300 X 80mm	*



PVC-U Adaptable boxes

code	external size	pack
AEMTAB100N	106 X 106 X 67mm	
AEMTAB150N	155 X 155 X 92mm	
AEMTAB200N	230 X 230 X 82mm	

⌘ Currently not being produced in UAE. Imported from P.R.C

† Currently not being produced in UAE. Imported from Marshall-Tufflex.

* Available in grey colour

Flush mounted



1 gang

code	depth	pack
AEMSSB1	35mm	20

Entries: 1x ø20mm and 1x ø25mm on horizontal sides. 2x ø20mm on vertical sides.



2 gang

code	depth	pack
AEMSSB3	35mm	10

Entries: 3 x ø20mm and 1 x ø25mm on horizontal sides, 2 x ø20mm on vertical sides

Surface and flush mounted switch boxes

Surface mount boxes

1 gang = 87 x 87mm with 60.3 fixing centres
2 gang = 147 x 87mm with 120.6 fixing centres

Flush mount boxes

1 gang = 74 x 74mm with 60.3 fixing centres
2 gang = 134 x 74mm with 120.6 fixing centres

Surface mounted



1 gang – square corners

code	depth	pack
AEMSSB17K	32mm	20



2 gang – square corners

code	depth	pack
AEMSSB23K	32mm	10

All standard surface mounted boxes have a combination of 16x16mm, 25x16mm and 20mm round conduit knockouts

Cover plates



1 gang – flat

code	depth	pack
AEMSCP2	2mm	20

Size: 86 x 86mm



2 gang – flat

code	depth	pack
AEMSCP3	2mm	10

Size: 86 x 146mm

GI Switch/Socket back box



GI Switch/Socket box 1-Gang

code	Depth	Thick	pack
IMGI1G35	35mm	1.1mm	20
IMGI1G47	47mm	1.1mm	20



GI Switch/Socket box 2-Gang

code	Depth	Thick	pack
IMGI2G35	35mm	1.1mm	10
IMGI2G47	47mm	1.1mm	10

Complies to BS 4662 available with two adjustable lugs at 90-deg in case of 1gang.

Pliable PVC-U Corrugated



Flexible conduit

code	size	pack
AECC2000	20mm	1x50m
AECC2500	25mm	1x50m
AECC3200	32mm	1x25m
AECC4000	40mm	1x25m
AECC5000	50mm	1x20m



Corrugated flexible conduit adaptor with male bush (clip in type)

code	size	pack
IMCC2010	20mm	75
IMCC2510	25mm	60

Accessories



Bending spring heavy gauge (Green end)

code	conduit size	pack
IMMBSH2	20mm	4
IMMBSH3	25mm	3



Bending spring light gauge (White end)

code	conduit size	pack
IMMBSL2	20mm	4
IMMBSL3	25mm	3



Corrugated flexible conduit gland

code	conduit size	pack
IMCC2010G	20mm	75
IMCC2510G	25mm	60



Brass earthing terminal

code	rating	pack
IMMET1	15Amp	100



PVC pipe cutter

code	pack
IMMTPC42	1



Conduit solvent cement

code	pack
AEMSC.12P	24 x 237ml
AEMSC.1P	12 x 473ml

⚠ Currently not being produced in UAE. Imported from P.R.C

8 | Low Smoke & Fume (LSF) Conduit and Fittings

LSF ROUND CONDUIT AND FITTINGS

Round conduit made from specially formulated super high impact self-extinguishing PVC-U with properties to enable minimised generation of smoke.

Product information

Conduit

- Heavy gauge options
- Certified to requirements for BS EN IEC 61386-1:2008+A1:2019, BS EN IEC 61386-21:2021+A11:2021, BS EN IEC 61386-22:2021+A11:2021 and BS EN IEC 61386-23:2021+A11:2021
- UL 94 : 2021 E6, IEC 60754-1:2011, ASTM E662 where applicable

Boxes

- Provision for MET1 brass earth terminal
- All boxes have threaded brass inserts

Standard Colours

GR

GR : Grey

Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

The British Standards Institution's Kitemark symbol indicating that they are manufactured under a certified system of supervision, control, and testing, including periodic inspection of the manufacturer's facilities in accordance with the Certification Mark Scheme.



LSF Round conduit



LSF Heavy gauge | Plain end round conduits

code	O.D	len	
AEKMCR6LSGR	20mm	20 x 2.9m	✓
AEKMCR7LSGR	25mm	20 x 2.9m	✓
AEKMCR8LSGR	32mm	10 x 2.9m	✓
AEKMCR11LSGR	38mm	10 x 2.9m	✓
AEKMCR12LSGR	50mm	5 x 2.9m	✓

Frame Quantity

O.D	len
20mm	5000 x 2.9m
25mm	3000 x 2.9m
32mm	1800 x 2.9m
38mm	1300 x 2.9m
50mm	750 x 2.9m

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LSF Round conduit fittings



LSF Straight couplers

code	size	pack	
AEMC2LSGR	20mm	100	✓
AEMC3LSGR	25mm	60	✓
AEMC4LSGR	32mm	30	
AEMC5LSGR	38mm	20	✓
AEMC6LSGR	50mm	9	✓



LSF Expansion couplers *

code	size	pack
AEMEC2LSGR	20mm	50
AEMEC3LSGR	25mm	30
AEMEC4LSGR	32mm	20
AEMEC5LSGR	38mm	12
AEMEC6LSGR	50mm	5



LSF Plain bends

code	size	pack	
AEMNB2LSGR	20mm	100	✓
AEMNB3LSGR	25mm	60	✓
AEMNB4LSGR	32mm	25	
AEMNB5LSGR	38mm	10	
AEMNB6LSGR	50mm	5	

LSF Pliable Corrugated



LSF Flexible conduit

code	size	pack
AECC2000LSGR	20mm	1 x 50
AECC2500LSGR	25mm	1 x 50
AECC3200LSGR	32mm	1 x 25
AECC4000LSGR	40mm	1 x 25
AECC5000LSGR	50mm	1 x 20



LSF Corrugated flexible conduit adaptor with male bush (clip in type)

code	size	pack
IMCC2010LSGR	20mm	75nos
IMCC2510LSGR	25mm	60nos



LSF Corrugated flexible conduit gland

code	conduit size	pack
IMCC2010GLSGR	20mm	75
IMCC2510GLSGR	25mm	60

Available in Black in special cases subject to MOQ's
Accessories carrying the BSI KM logo ✓ means, They are certified by BSI Authorities to carry the prestigious KM Logo

* Should be fitted over a clear gap between two round rigid conduits

Currently not being produced in UAE. Imported from P.R.C

LSF Round conduit fittings



LSF Adaptors (Female thread)

code	size	pack
AEMAB2LSGR	20mm	100 ♡
AEMAB3LSGR	25mm	75 ♡
AEMAB4LSGR	32mm	40 ♡
AEMAB5LSGR	38mm	30 ♡
AEMAB6LSGR	50mm	12 ♡



LSF Male bushes

code	size	pack
AEMMB2LSGR	20mm	500 ♡
AEMMB3LSGR	25mm	300 ♡
AEMMB4LSGR	32mm	150 ♡
AEMMB5LSGR	38mm	100 ♡
AEMMB6LSGR	50mm	40 ♡



LSF Spacer bar saddles

code	size	pack
AEMSB2LSGR	20mm	100 ♡
AEMSB3LSGR	25mm	100 ♡
AEMSB4LSGR	32mm	60 ♡
AEMSB5LSGR	38mm	50 ♡
AEMSB6LSGR	50mm	30 ♡



LSF Strap saddles

code	size	pack
AEMSS2LSGR	20mm	100 ♡
AEMSS3LSGR	25mm	100 ♡
AEMSS4LSGR	32mm	60 ♡
AEMSS5LSGR	38mm	50 ♡
AEMSS6LSGR	50mm	50 ♡

LSF Circular boxes



LSF Loop-in boxes

code	size	pack
AE2MRB12LSGR	4 x ø20mm KO	25
AE3MRB12LSGR	2 x ø25mm KO	25
AE4MRB12LSGR	1 x ø20mm + 1 x ø25mm KO	25



LSF Terminal 1-way

code	size	pack
AE2MRB2LSGR	20mm	20 ♡
AE3MRB2LSGR	25mm	20 ♡



LSF Through 2-way

code	size	pack
AE2MRB3LSGR	20mm	20 ♡
AE3MRB3LSGR	25mm	12 ♡

Circular boxes

PVC-U plain bored circular boxes are suitable for suspending loads of up to 3kg centrally at 60°C maximum. Fixing centres are at 50.8mm and fitted with M4 brass inserts.



LSF Angle 2-way

code	size	pack
AE2MRB4LSGR	20mm	20 ♡
AE3MRB4LSGR	25mm	15 ♡



LSF Tee 3-way

code	size	pack
AE2MRB5LSGR	20mm	15 ♡
AE3MRB5LSGR	25mm	10 ♡



LSF Intersection 4-way

code	size	pack
AE2MRB6LSGR	20mm	15 ♡
AE3MRB6LSGR	25mm	10 ♡



LSF Branch 2-way or U

code	size	pack
AE2MRB13LSGR	20mm	20 ♡
AE3MRB13LSGR	25mm	20 ♡



LSF Branch 3-way or Y

code	size	pack
AE2MRB14LSGR	20mm	15 ♡
AE3MRB14LSGR	25mm	10 ♡



LSF Twin through way or H

code	size	pack
AE2MRB15LSGR	20mm	15 ♡
AE3MRB15LSGR	25mm	10 ♡

LSF Circular box fittings



Circular rubber gasket

code	size	pack
AEMRG1	66mm diam	

Black only



LSF Circular lids

code	size	pack
AEMCL1LSGR	flush fitting (66mm diam)	75 ♡
MCL2'	overlapping (85mm diam)	50

10 | Low Smoke & Fume (LSF) Conduit and Fittings

LSF Adaptable boxes



IP65 Rating

LSF Adaptable boxes : Material ABS

code	external size	pack
IMMTAB100ALSGR	110 x 110 x 74mm	10
IMMTAB150ALSGR	150 x 150 x 80mm	10
IMMTAB200ALSGR	200 x 200 x 80mm	4
IMMTAB280BLSGR	280 x 210 x 74mm	1
IMMTAB380BLSGR	380 X 280 X 90mm	1



IP66 Rating

PVC-U LSF Adaptable boxes

code	external size	pack
AEMTAB100ALSGR	106 X 106 X 67mm	
AEMTAB150BLSGR	155 X 155 X 92mm	
AEMTAB200BLSGR	230 X 230 X 82mm	



PVC-U LSF Adaptable boxes

code	external size	pack
AEMTAB100NLSGR	106 X 106 X 67mm	
AEMTAB150NLSGR	155 X 155 X 92mm	
AEMTAB200NLSGR	230 X 230 X 82mm	

LSF Surface mounted



LSF 1 gang – square corners

code	depth	pack
AEMSSB17LSKGR	32mm	20



LSF 2 gang – square corners

code	depth	pack
AEMSSB23LSKGR	32mm	10

All standard surface mounted boxes have a combination of 16x16mm, 25x16mm and 20mm round conduit knock outs

Cover plates



LSF 1 gang – flat

code	depth	pack
AEMSCP2LSGR	2mm	20

Size: 86 x 86mm



LSF 2 gang – flat

code	depth	pack
AEMSCP3LSGR	2mm	10

Size: 86 x 146mm

LSF Flush mounted



LSF 1 gang

code	depth	pack
AEMSSB1LSGR	35mm	

Entries: 1x ø20mm and 1x ø25mm on horizontal sides. 2x ø20mm on vertical sides.



LSF 2 gang

code	depth	pack
AEMSSB3LSGR	35mm	

Entries: 3 x ø20mm and 1 x ø25mm on horizontal sides, 2 x ø20mm on vertical sides

Surface and flush mounted switch boxes

Surface mount boxes

1 gang = 87 x 87mm with 60.3 fixing centres
2 gang = 147 x 87mm with 120.6 fixing centres

Flush mount boxes

1 gang = 74 x 74mm with 60.3 fixing centres
2 gang = 134 x 74mm with 120.6 fixing centres

Accessories



Bending spring
heavy gauge (Green end)

code	conduit size	pack
IMMBSH2	20mm	4
IMMBSH3	25mm	3



Bending spring
light gauge (White end)

code	conduit size	pack
IMMBSL2	20mm	4
IMMBSL3	25mm	3



PVC pipe cutter

code	pack
IMMTPC42	1



Conduit solvent cement

code	pack
AEMSC.12P	24 x 237ml
AEMSC.1P	12 x 473ml



Brass earthing terminal

code	rating	pack
IMMET1	15Amp	100

⚠ Currently not being produced in UAE. Imported from P.R.C

TECHNICAL, MATERIAL DATA AND GENERAL INFORMATION

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Fitting

- Secure horizontal runs of conduit at a maximum distance of 0.9m.
- Secure vertical runs of conduit at a maximum of 1.2m.
- In areas of high ambient temperature or where rapid changes in temperature are likely, these distances should be reduced.
- Where there are fittings or directional changes, the conduit should be secured approximately 150mm either side to maintain support.
- Avoid over-tightening to permit thermal movement.

Joints and bends

- To accommodate thermal movement on surface installations, it is recommended that expansion couplers be used at a maximum distance of 6m intervals.
- In areas of high ambient temperature or where rapid changes in temperature are likely, this distance should be reduced.
- To install an expansion coupler, coat the inside of the short side with solvent cement and push firmly over the conduit down to the stop point.
- Slide the next length of conduit into the long side of the coupler. (As a guide insert in approximately only 50mm.) DO NOT GLUE INTO PLACE. This will permit expansion or contraction of the conduit, providing it is free to move in the saddles.

Bends

Care should be taken not to make too tight a bend and attention is drawn to BS 7671:2018 Section 522.8.3 of the Wiring Regulations. The radius of every bend in a wiring system shall be such that conductors and cables shall not suffer damage.

Cold bending 20-25mm conduit

Cold bending may be carried out on all conduit sizes up to 25mm in diameter using the correct size and gauge of bending spring.

- Heavy gauge spring is colour-banded red at the tip.
- Light gauge spring is colour-banded blue at the tip.
- Springs are not interchangeable.
- Make sure springs are not damaged in any way as this can fracture or kink the conduit making removal of the spring difficult.
- In cold weather, warm the conduit by rubbing with a rag before bending.

To bend the conduit:

- Insert the spring to the desired position, grip the conduit on either side of bend and bring slowly together to form the bend.
- Cold bending of 20mm and 25mm conduit should be done with correct / undamaged spring inserted and bent over knee to initiate bend. Spring should remain inserted until the desired angle is achieved. (Under no circumstance should bends be increased or decreased without correct spring inserted).

Failure to follow above procedure could increase possibility of product failure.

- Make the bend more acute than necessary to allow for PVC-U to 'recover' after bending.
- To remove the spring, twist anticlockwise (to reduce its diameter) whilst turning the conduit clockwise and gently pulling the conduit and the spring apart.
- If spring fails to release, do not pull too hard or damage to the spring may occur.
- Repeat the removal procedure until they come apart. The conduit should then be fastened into position to prevent further 'recovery' of the bend.

Earthing

The properties of PVC-U make it an all insulated system and the use of a separate earth cable is essential.

Sealant

Solvent cement AEMSC is a slow acting solvent cement especially formulated for watertight conduit fittings. In accordance with COSHH Regulations, details of our solvents are entered in The National Poison Centre computer records. Health & Safety data sheets are available from www.marshall-tufflex.com/gcc

PVC-U material data

Marshall-Tufflex cable management products are manufactured in Extra Super High Impact PVC-U grade material, capable of withstanding the most hazardous conditions on site and which exceeds the most stringent requirements of the British Standards.

Characteristics

Specific gravity		1.42
Co Efficient of Linear Expansion		7 x 10 ⁻⁵ /m/°C
Water Absorption		Negligible
Electric Strength		To the requirements of BS EN 50085
Fire Performance	BS 476 PT6 & PT7 BS EN 50085 UL94 BS EN 61386-1 BS 4607	CLASS 1 PASS V-0 @ 1.6mm PASS PASS
Oxygen Index		42%
Tensile Strength		492/562 kg/cm²
Insulation Resistance		To the requirements of BS 4607, BS EN 50085, BS EN 61386-1
Chemical Resistance		See below
Vicat Softening Point (conduit & trunking)		80°C BS EN ISO 306
Vicat Softening Point (moulded fittings)		76°C BS EN ISO 306

Chemical resistance

The material is virtually unaffected by solutions of inorganic acids, alkalis and salts and is resistant to many organic chemicals. It may be softened by some organic materials such as ketones and aromatic compounds. It will not corrode. For further details on chemical resistance to a wide range of chemicals please visit www.marshall-tufflex.com

Fire resistance

The material used in Marshall-Tufflex conduit is self-extinguishing and complies with the requirements of BS 476 Parts 6 and 7 and BS 4678. Non-flame propagating to BS EN 50085 and BS EN 61386-1.
(See Characteristics table above)

Thermal properties

Marshall-Tufflex conduit is designed to accommodate variations of ambient temperature equating to 5.25mm/3m for a temperature rise of 25°C.
Operating temperatures: -5°C to +60°C.
Thermal conductivity: 0.19 w/m/°C.

Conduit Impact resistance

High impact resistance. The material is formulated to comply with the -5°C Heavy Gauge Requirements of BS EN 61386-1.

Standards

Conduit systems comply with the requirements of BS 4607-5:1982+A3:2010, BS EN 61386-1:2008 and BS 4607-1:1984+A2:2010.

Marshall-Tufflex Lsf
(Low Smoke & Fume)
Conduit & Accessories

Marshall-Tufflex offer a high-quality range of LSF conduit and accessories, manufactured by Vivasvaan Industrial Co, KEZAD, Abu Dhabi.

LSF heavy gauge conduit exceeds the most stringent requirement of the British Standards to ensure that in the event of a fire, the emission of smoke and fume is much lower than standard PVC-U conduit and accessories.

Characteristics

Material	Rigid PVC-Modified
Smoke Emission / HCL Emission	ASTM E 662 / IEC 60754-1
LOI (ASTM 2836)	50% O2
UL 94 (Underwriters Laboratory)	V0 PASSED
Flammability	Self Extinguishing
VICAT Softening Temperature	86 °C
Coefficient Of Linear Expansion	5.0 x 10-5/ °C
Impact Resistance	To The Requirement Of BS EN 61386-21
Chemical Resistance	Resistant To Solutions Of Inorganic Acids Alkalis And Salts. Not Affected By Most Organic Chemicals Except Ketones And Certain Aromatic Compounds
Mechanical And Electrical Properties	To The Requirements Of BS EN 61386-21

Health and Safety at work

Health and Safety at work etc.
Act 1974 - UK

1. Section 6 of this act imposes on all manufacturers, designers, importers or suppliers of articles for use at work a duty to ensure, so far as is reasonably practicable, that the article is so designed and constructed that it will be safe and without risks to health at all times when it is being set, used, cleaned or maintained by a person at work. Part 1 of the Consumer Protection Act 1987 introduces strict liability for defects in products. In considering whether a product is defective, consideration has to be given to any instructions issued with the products. It is therefore essential that the purchasers ensure that any relevant information or advice relating to the use of the product is strictly complied with.
2. Having regard to these provisions the following is given as a guide to the information which is readily available to you in order that the obligations of all concerned may be met as fully as is reasonably practicable. This information relates to those products detailed in our Catalogue(s) or associated literature.
3. Information on the design, construction and installation of our products may be found in catalogues and product leaflets of this Company, or may be obtained by specific request to the Company.
4. It is important that the products concerned should be installed, commissioned and maintained by, or under supervision of competent persons in accordance with:
 - BS7671 IEE Regulations for the Electrical Equipment of Buildings
 - Codes of Practice
 - Statutory requirementsAny instruction specifically advised by the Company The Purchaser must satisfy himself that he has complied with such requirements.
5. In accordance with the provisions of the Act you are therefore requested to take such steps as are necessary to ensure that any appropriate information relevant to our products is made available by you to anyone concerned.

General information

Low Voltage Directive

Marshall-Tufflex products that come within the scope of the Low Voltage Directive (LVD) will be UKCA Marked to confirm that they meet the necessary requirements of this directive.

Product colour

The colour of products shown in this catalogue are representative only.

Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.

Unexposed parts

Unexposed parts may not always be supplied in the colours depicted in this catalogue. This will not detract in any way from the finished look of the product.

Continuous improvement

In pursuance of our policy of continued product improvement Marshall-Tufflex reserves the right to change the design, specification or pack quantities of its products without notification.

Lead Free Factory

Marshall-Tufflex PVC-U conduits are produced in a manufacturing facility that operates without the use of lead in its production processes, materials, and products. Lead is a toxic metal that can have detrimental effects on human health and the environment. Therefore, lead-free factories prioritize the elimination of lead-containing substances from their operations to ensure the safety of workers, consumers, and the surrounding ecosystems.

Storage of PVC-U Conduit

Transportation of PVC-U Conduit

Marshall-Tufflex PVC-U Conduit is very robust, but still can be damaged by rough handling. Conduit should not be thrown from trucks or dragged over rough surfaces. Plastic conduit becomes more susceptible to damage in very cold weather so extra care should be taken when the temperature is low. Since the soundness of any conduit joint depends on the condition of the spigot and the socket, special care should be taken not to allow them to come in to contact with sharp edges or protruding nails or made oval by poor storage.

Storage of PVC-U Conduit

Conduit should be adequately supported at all times. Conduit should be stacked in layers with sockets placed at alternate ends of the stack and with the sockets protruding. Horizontal support of about 75mm wide should be spaced not more than 1.0m centre-to-centre beneath the conduits to provide even support. Vertical side supports should also be provided at intervals of 2m along rectangular conduit stacks.

The heaviest conduit should be on the bottom. The crates used for delivery are adequate for long term storage provided additional bearers (approx. 75mm wide) are place under the conduits between the crate frames.

Transportation of PVC-U Conduit

While in transit, conduit should be well secured and supported. Chains or wire ropes may be used only if suitably padded to protect the conduit from damage. Care should be taken that the conduit is firmly tied so that the sockets cannot rub together. Conduit may be unloaded from vehicles by forklift, care being taken to ensure that the conduit does not fall onto each another or onto any hard or uneven surface.

* Refer page 15 for graphical representations.



Rigid PVC-U Cable Management Systems (Incorporating LSF & LSZH Composition)

Source: Beama
(<https://www.beama.org.uk/>)

PVC-U offers many key benefits and is an ideal material for fire prevention:

- PVC-U is inherently flame retardant and requires an external heat source to continue combustion.
- PVC-U has a low heat of combustion and a low burning rate. Hence PVC-U contributes significantly less to heat release and fire propagation than many other materials.
- When subject to a fire situation, a low rate of smoke production is generated by PVC-U during the critical early stages of a fire when personnel evacuation is most likely.
- If PVC-U is present in isolation, without any other combustible materials, the high fire retardancy of PVC-U will prevent the propagation of the fire.
- PVC-U forms an effective barrier to flame spread, making a minimal contribution to fire development and growth. Low total flame spread and low rate of flame spread are highly desirable as they govern the overall size of the fire.
- Burning PVC-U chars and is self-extinguishing. It does not produce flaming droplets or burning debris, both of which are a major cause of flame spread. The presence of PVC-U therefore ensures that the ignition of adjacent products is less likely.
- Charred PVC-U consists of an expanded carbonaceous structure which protects the underlying material.

What is PVC?

Unplasticised or rigid PVC (PVC-U) products are tough and resistant to weather and corrosion. Typical applications are pipes for water, drainage and sewerage, rainwater goods, electrical trunking, conduit and ducting, wall cladding, furniture components, window frames and signs.

PVC-U is a material that contributes little to the spread of the fire and can therefore be less hazardous than a material that contributes more to the fire spread, even before taking into account a comparison of smoke density and fire gas toxicity.

Plasticized PVC (PVC-P), that is used for cable insulation for example, is easier to ignite and burns more easily than PVC-U because of the presence of the plasticizer.

Conduit and Trunking

PVC-U has been the first choice plastics material for electrical conduit and trunking products for many years. In common with pipe and rigid sheet applications, conduit and trunking products made from PVC-U do not contain plasticisers, are highly resistant to ignition and act as effective barriers to flame spread from malfunctioning electrical components contained within them.

If PVC-U conduit or trunking is involved in a fire originating elsewhere in the installation, its resistance to ignition and low rate of heat release means that it makes a minimal contribution to fire development and growth.

The PVC-U materials used to produce conduit and trunking have been tested for ignitability to BS 476 Parts 5 and 12, and for flame spread to BS 476 Part 7, when a Class 1 rating was achieved.

Background

Many factors should be taken into account when assessing fire risks. For example:

- Time to ignition
- Burning rate
- Heat release
- Smoke production
- Toxicity

Escape time is a critical factor in any fire scenario. Therefore materials with the following characteristics maximize the chance of survival in a fire since they allow people to escape before being overcome by the fire:

- Difficult to ignite
- Low burning rate
- Low heat release
- Low smoke production / Low smoke and fume
- Low toxicity

Un-plasticized (rigid) PVC-U that is used in cable management systems has all these characteristics during the important early stages of a fire.

The toxin that is of major concern during any fire is carbon monoxide which is produced in almost any fire from the burning furniture, furnishings, paper etc., especially in conditions of low ventilation. Other toxins may be produced depending on the chemical nature of the fuel and the stage of the fire. These include sulphur dioxide, nitric oxide, nitrogen dioxide, hydrogen cyanide, acrolein, hydrogen fluoride, hydrogen chloride, and hydrogen bromide. It is therefore important to avoid materials that produce these toxins in the early stages of a fire.

There are materials that, when burned, produce acid-gas but produce only limited amounts of highly toxic gases, due to a low rate of burning. Un-plasticized (rigid) PVC-U that is used in many cable management systems has these properties.

PVC-U has a low rate of smoke production during the early stages of a fire. This is because it contains chlorine which, like all halogens, is an inherent flame retardant which inhibits sustained burning.

The terms “halogen free”, “low smoke and fume (LSF)” and “low acid-gas” do not equate with low fire hazard.

For example:

Hydrogen is a dangerously flammable and potentially explosive gas but when it burns it produces no smoke or fume (the only product of combustion is water)

Introduction to Fire Testing

Fire resistance tests are used to assess the effectiveness of fire barriers which are used to prevent the spread of fire.

The fire performance parameters assessed by reaction-to-fire tests can be grouped into the following categories:

- **Ignitability:** A measure of the ease with which a test specimen can be ignited by heat or flame, such that combustion can be sustained.
- **Flame Spread:** Once a test specimen has been ignited, flame spread tests measure how far and/or how quickly flames spread over the test specimen.
- **Heat Release:** Burning is an exothermic reaction, i.e. it releases heat. The rate at which a test specimen releases heat, and the total heat released, are crucial factors which influence overall fire size and growth rate.
- **Smoke opacity:** Virtually all burning materials release smoke, which may hinder escape from the fire, and firefighting, by obscuring visibility. The rate of smoke release may be more important than the total potential smoke release, because smoke generated early in the fire is a key factor in hindering escape.

The fire performance of PVC-U in reaction-to-fire tests

Flame spread

Low total flame spread and low rate of flame spread are highly desirable as they govern the overall size of the fire and are key factors in determining the hazard from smoke, corrosive and toxic gases. PVC-U inhibits the spreading of flame.

The Underwriters Laboratories vertical flame spread test, UL 94V, is widely recognised and PVC compounds achieve a high (94V-0) rating. The relevant British and international standards are BS 2782 Part 1 Method 140A:1992 and its ISO equivalent, ISO 1210:1992. MT specially formulated PVC compounds usually show a burn distance of less than 25mm and a rate of flame spread of less than 50mm per minute.

What are the key factors that need to be considered?

The main hazards from fires are:

- Thermal effects, essentially close to the fire
- Fire gases, the effects of which reach a much wider area than the heat

The thermal effects result from temperature and radiation. They are directly proportional to the size and development of the fire, which are themselves directly proportional to the combustible load present in the affected space. They are the main cause of destruction of equipment inside buildings and can result in the most severe cases to the partial or total destruction of the building's structure. The thermal effects are closely linked to the fire behavior of the materials present: ease of ignition, heat production, flame spread.

Fumes and gases affect people in the following ways:

- Lowered visibility due to smoke, which impairs escape
- Toxic effects which can reduce psychomotor ability, incapacitate or even kill.

Does PVC-U contribute to the spread of fire?

PVC-U does little to contribute to the spread of a fire. It is less hazardous than a material that contributes more to the fire spread. The PVC-U used for the manufacture of cable management systems is flame retardant to BS 476 Part 7 Class 1.

Question: What is a "halogen"?

Answer: The halogens are the following group of chemical elements:

- Fluorine
- Chlorine
- Bromine

In everyday life we are most familiar with fluorine as a constituent of chemicals added to drinking water and to toothpaste in order to prevent tooth decay, and in non-stick coatings.

Halogens have long been known to act as effective flame retardants. They are widely used to delay ignition, lower heat release, and lower flame spread.

However, when a material which contains halogen is forced to burn, the halogen is

converted into halogen acid and this can have detrimental effects in some fire scenarios.

Question: What is meant by the term "Halogen free"?

Answer: Some standards define the term "Halogen free" For example:

EN 50264-1 "Railway applications – Railway rolling stock power and control cables having special fire performance. Part 1: General requirements"
This states that extruded insulation and sheath material shall have the following properties:

	Test method	Measurement	Requirements
1	EN 50267-2-2	pH and conductivity	pH ≥ 4,3 and conductivity ≤ 10 μS/mm
2	EN 50267-2-1	Chlorine and bromine content expressed as HCl	≤ 0,5%
3a	EN 50264-1 Annex B	Halogen: Fluorine	If negative stop test; no further test needed. Accept material
			If positive, do test according to 3b
3b	EN 60684-2	Fluorine content	≤ 0,1%

Question: What is meant by the term "zero halogen"?

Answer: The term effectively excludes various polymers such as: fluoropolymers (eg PTFE, ETFE and Viton), chloropolymers (eg PVC, CPE and chloroprene rubbers), and it also excludes chlorine and bromine based flame retardant additives.

This means that if the product were involved in a fire it would not produce any halogen acid (hydrofluoric acid, hydrochloric acid or hydrobromic acid) in the fire effluent, which in some end-use environments (eg naval ships, submarines and underground trains) is recognized as being a desirable property.

However, it does not necessarily mean that the product would have other desirable fire hazard properties such as:

- Difficult to ignite
- Tendency to self-extinguish if the source of ignition is removed
- Low rate of flame spread
- Low heat release when it does burn
- Low level of smoke emission when it does burn
- Low level of toxic gas emission when it does burn

If there are good reasons why a "zero halogen" product is considered desirable, then the user should make sure that the product also has an appropriate balance of other desirable fire hazard properties.

Question: What is meant by the term "low smoke and fume"?

Answer: When used in the area of fire

hazard, it is typically used to indicate a combination of the following properties:

- Low level of smoke emission when it burns
- Low level of toxic gas emission when it burns

What are the positive factors when considering the fire performance of PVC-U products and why should I consider using PVC-U materials in buildings?

PVC-U offers several key benefits in the fire process:

- If used in isolation, without the presence of any other combustible materials, PVC-U is extremely difficult to ignite and will not propagate a fire. Fire prevention is the key objective and PVC-U materials outperform many other plastic materials in this respect.
- The presence of over 50% halogen makes it difficult to ignite even in the absence of any additional flame retardant.
- It has a low heat of combustion and hence contributes less to heat release and fire propagation than many other materials.
- Burning PVC-U chars, does not produce flaming droplets or burning debris, both of which are a major cause of flame spread. Presence of PVC-U therefore renders the ignition of adjacent products less likely.
- Charred PVC-U consists of an expanded carbonaceous structure which protects the underlying material.

17 | Rigid PVC-U Cable Management Systems

Polymer	Chemical name	Processing temperature	Flammability	Flash ignition temperature	Self ignition temperature	Operating temperature	
						Min	Max
PVC (rigid PVC) (unplasticised PVC)	poly (vinyl chloride)	150 - 200°C	Difficult to ignite Self-extinguishing Tends to char Will only burn if exposed to a continuous external heat source If it burns it produces HCl as well as C, CO, CO ₂ and H ₂ O LOI ~ 47	391°C	454°C	-20°C	+80°C
PE	poly (ethylene)	150 - 210°C	Very easy to ignite Not self-extinguishing Produces molten flaming drips High heat release rate Burns to produce C, CO, CO ₂ and H ₂ O LOI = 17.4	341°C	349°C	-60°C	+80°C
XLPE	cross-linked poly (ethylene)	Not processable after being cross-linked	Easy to ignite, but less than PE Not self-extinguishing Does not produce molten flaming drips High heat release rate Burns to produce C, CO, CO ₂ and H ₂ O LOI > 18	> 350°C	> 350°C	-60°C	+135°C
PP	poly (propylene)	210 - 250°C	Very easy to ignite Not self-extinguishing Produces molten flaming drips High heat release rate Burns to produce C, CO, CO ₂ and H ₂ O LOI = 18	320°C	350°C	0°C	+140°C
PC	polycarbonate	230 - 320°C	Not easy to ignite Self-extinguishing Tends to char Burns to produce C, CO, CO ₂ and H ₂ O LOI = 27	467°C	598°C	-90°C	+130°C

Note : Many of the above materials are available in the form of numerous grades and formulations. The above data should therefore be used only for guidance. For specific grades/formulations, the supplier's data should be consulted.

Terminology

LOI	Limiting Oxygen Index
C	Carbon
CO	Carbon Monoxide
CO₂	Carbon Dioxide

References:

- BS 476 : Parts 5, 12, & 7 (Class 1 for flame spread).
- UL94V
- BS 2782 140A:1992 (Part 1 - Method) or ISO 1210:1992
- EN 50267-2-2
- EN 50267-2-1

Material Compliance



RoHS

RoHS (Restriction of Hazardous Substances) restricts the use of specific hazardous materials found in electrical and electronic products. All applicable Marshall-Tufflex products are RoHS compliant.

REACH

REACH is an EU regulation (dating from 18.12.06) that stands for Registration, Evaluation, Authorisation and Restriction of Chemicals. It addresses the production and use of chemical substances and assesses their potential impact on both human health and the environment. Marshall-Tufflex complies with the requirements of the REACH regulations.

Storage and Handling Guidelines for PVC-U Conduit Pipes and Fittings

1. Storage Instructions



Indoor Storage: Store the pipes and fittings in a covered, dry, and well-ventilated area. This will protect them from prolonged exposure to direct sunlight, which can degrade the material over time.



Outdoor Storage: If indoor storage is not possible, ensure that the pipes and fittings are covered with a UV-resistant tarpaulin or other protective covering. This will help reduce exposure to sunlight and prevent the material from becoming brittle.



Stacking: Stack pipes in a horizontal position on a flat surface. Ensure that the stacks are stable to avoid any damage from falling or excessive pressure.

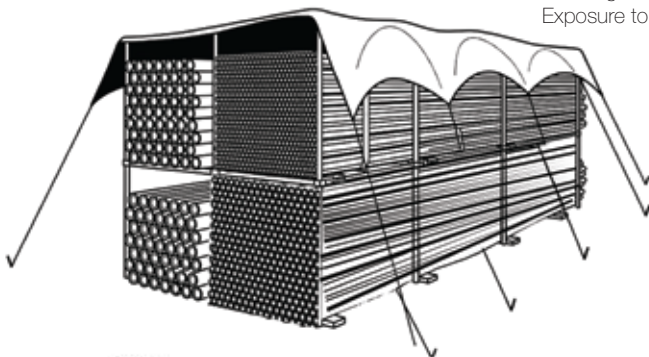


Duration of Exposure: If exposure to sunlight cannot be avoided, minimize the duration as much as possible to preserve the material's integrity.

2. Handling Instructions:



Manual Handling: Lift pipes and fittings carefully to avoid impacts or dropping. Avoid dragging them across rough surfaces, as this can cause scratches and weaken the material.



Mechanical Handling: When using forklifts or cranes, use soft slings or padded supports to lift the pipes and fittings. Never use metal chains or sharp tools that can damage the surface.



Avoid Bending: Do not bend the pipes without springs excessively during handling, as this can lead to cracks or deformations.

3. Transportation Instructions:



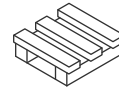
Loading: Ensure that the pipes and fittings are securely fastened during transportation to prevent movement that could cause damage. Use soft supports or padding between the pipes and the vehicle surface.



Avoid Overloading: Do not overload vehicles with excessive weight that could cause the pipes at the bottom of the stack to be crushed or deformed.



Protection: During transportation, cover the pipes and fittings with a UV-resistant tarpaulin to protect them from direct sunlight.

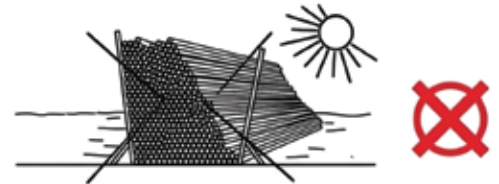


radiation can cause PVC-U materials to become brittle.

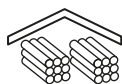
Off the Ground: Keep the items elevated from the ground using wooden planks or pallets to prevent contact with dirt and moisture.



Segregation: Segregate the pipes by size and type to avoid confusion during installation and reduce the risk of damage from improper handling.



4. On-Site Storage at Construction Sites:



Shaded Area: Store pipes and fittings in a shaded area or use protective covering to shield them from sunlight. Exposure to high temperatures and UV



19 | Certifications & Recognitions



Kitemark™ Certificate

This is to certify that:

Vivasvaan Industrial Co. (SP) LLC
A5, Building No.11, KEZAD
P.O Box 93180
Abu Dhabi
United Arab Emirates

Holds Certificate Number: KM 818543

In respect of:

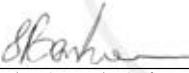
BS EN IEC 61386-21

Conduit systems for cable management.Rigid conduit systems

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI:



Shahm Barhom, Group Product Certification Director

First Issued: 2025-08-21

Latest Issue: 2025-08-21

Effective Date: 2025-08-21

Expiry Date: 2028-05-11

Page: 1 of 6



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To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A member of BSI Group of Companies.

Kitemark™ Certificate
Conduit systems for cable management.
Rigid conduit systems

Certificate of Registration
ISO 9001:2015
Quality Management System



Certificate of Registration





QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

Vivasvaan Industrial Co. (SP) LLC
A5, Building No.11, KEZAD
P.O Box 93180
Abu Dhabi
United Arab Emirates

Holds Certificate No: FM 795178
and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

The Manufacture, Storage and Supply of PVC-U Pipes & Fittings, ABS Pipes & Fittings, PP-R Pipes, PP-R Fibreglass Pipes, PE-RT Pipes and Accessories including its Design

For and on behalf of BSI:



Theuns Kotze, Managing Director Assurance - IMETA

Original Registration Date: 2025-05-12

Latest Revision Date: 2025-05-12

Effective Date: 2025-05-12

Expiry Date: 2028-05-11

Page: 1 of 1

...making excellence a habit™

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.
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Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, Tel: + 44 345 080 9000
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Tel +971 2 675 2233



المواصفات السعودية
Saudi Standards

الهيئة السعودية للمواصفات والمقاييس والجودة
Saudi Standards, Metrology and Quality Org.

شهادة ترخيص باستعمال علامة الجودة
License For Use of The Quality Mark

رقم الترخيص: 20250695291

SASO certifies that it has granted the right to use (SASO) quality mark on the following products, after fulfilling the required requirements according to the related normative references:

The Establishment:	شركة فيفاستان الصناعية ش.م.و - ذ م	المنشأة:
The Establishment's Address:	A5 Building No.11 KEZAD P.O Box 93180 Abu Dhabi, UAE	عنوان المنشأة:
Production Line Location:	A5 Building No.11 KEZAD P.O Box 93180 Abu Dhabi, UAE	موقع خط الإنتاج:
Normative References:	SASO GSO IEC 61386-21:2014	المراجع القياسية:
The Trade Mark:	Marshall Tufflex	العلامة التجارية:
The Product:	نظم القنوات لتنظيم الكابلات جزء 21 متطلبات خاصة بنظم القنوات الصلبة	الملاحق: (مستند المرفق في المنتج)
Date of Granting:	2025/03/03	تاريخ المنح:
Date of Renewal:	-	تاريخ التجديد:
Date of Expiry:	2028/03/03	تاريخ الانتهاء:



مدير عام الإدارة العامة لمتنح الشهادات
Director General of Certification Department

عبدالله فارس بن حسن فلاح
المهندس / خالد بن محمد النملة
Eng. Khalid M. Alnamliah




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To verify this certification visit SASO website, and any changes or modification on this certificate will affect its validity.

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Saso Quality Mark (SASO)
SASO GSO IEC 61386-21:2014



Electricity & Water Authority
Equipment type approval



EWA
هيئة الكهرباء والماء
Electricity & Water Authority

Approval ID:
252913

EQUIPMENT TYPE APPROVAL
Distribution Customer Use

We hereby confirm that below detailed Equipment is in compliance with the latest relevant regulations and standards, therefore it is **Approved** to be used in Distribution Customer Installation for five years, where expiry date is due the Approval Holder shall apply for renewal if needed.

Approval Details	
Approval ID: 252913	Approval Holder: Aquaplex Trading Co. WLL
Approval Type: Distribution Customer Use	Valid Till: 08/11/2030
Equipment Details	
Category: Cable Management System	Trademark: Marshall Tufflex
Description: Annexure-A	Designation: Annexure-A
Manufacturer Details	
Name: Vivasvaan Industrial Co. (SP) LLC	Country of Origin: United Arab Emirates

Comments:
EDD Requirements Fulfilled, The Approval issued on 07/14/2025 01:52 PM is deemed invalid by the issued of this revised approval.
EDD requirements fulfilled, all associated accessories to the items listed in Annexure-A are approved.

Signature:

08/11/2025 11:16 AM
Ebrahim Khalil Ebrahim
Director, Electricity Distribution

Validation:



This approval is signed electronically, validation of the approval can be confirmed through scanning the QR Code or visiting EWA Official Website.

- The Directorate reserves the right to deny or disconnect electricity supply in case of any failure to comply with any compulsory provision of the latest relevant regulations and standards enforced by the Kingdom.
- The Directorate retains the right to publish a censored copy of the approval.
- The Approval Holder is responsible for retaining all relevant information and documents for five years from issuance date.
- The Approval Holder is responsible to present the approval in full without any omissions upon request.
- The Approval Holder is responsible to ensure that an approved Equipment is manufactured, tested, and delivered in accordance with the latest relevant regulation and standards.
- The Installation Contractor is responsible to ensure that an approved Equipment is installed in accordance with the latest relevant regulation and standards.
- The Installation Contractor is responsible to validate the approval using above referenced QR Code.

Tel +971 2 675 2233

MEP SUPPLIER REGISTRATION CERTIFICATE	 ADCE اتحاد المهندسين المدنيين Arab Drains Commercial Engineering Services
ADCE Vendor Code:	v0003912
Schedule A	

22 | Project References - UAE



Project : ELITZ 2 Tower by Danube
MEP Consultant : Al Khawaja Engineering Consultancy
MEP Contractor : EMAC Electromechanical LLC
Location : Dubai, UAE
Year : 2024



Project : Petalz by Danube
MEP Consultant : National Engineering Bureau: NEB
MEP Contractor : Al Andalus Power Electromechanical Works L.L.C
Location : Dubai, UAE
Year : 2024



Project : RTA Bus Depots
MEP Consultant : Al Turath Engineering Consultants
MEP Contractor : Bin Hanif Electromechanical LLC
Location : Dubai, UAE
Year : 2024



Project : The Grove Phase -2
MEP Consultant : Atkins Realis
MEP Contractor : Innovo MEP
Location : Abu Dhabi, UAE
Year : 2024



Project : Skyhills Residences
MEP Consultant : QHC
MEP Contractor : Al Andalus Power Electromechanical Works L.L.C
Location : Dubai, UAE
Year : 2024



Project : Asan Gastroenterology Specialty Hospital
MEP Consultant : HDP Overseas Ltd
MEP Contractor : Pluto Electromechanical Cont. LLC
Location : Dubai, UAE
Year : 2024



Project : DUNYA Residential Building
MEP Consultant : AJ Design Architecture Engineering
MEP Contractor : Mirage Electromechanical Contracting LLC
Location : Dubai, UAE
Year : 2024



Project : Mar Casa
MEP Consultant : Prasoon Design Studio FZ-LLC
MEP Contractor : Al Arabia Electro Mechanical LLC
Location : Dubai Maritime City, Dubai, UAE
Year : 2024



Project : Town Square Nshama
MEP Consultant : Symphony Engineering Consultants L.L.C
MEP Contractor : Gincio Electrical & Sanitary Contracting Co.L.L.C
Location : Dubai, UAE
Year : 2024



Project : New Passenger Terminal Building
MEP Consultant : Parsons
MEP Contractor : Binladin Contracting Group LLC
Location : Sharjah Airport, UAE
Year : 2024



Project : DEC Campus Legacy
MEP Consultant : Egis Engineering Consultant
MEP Contractor : Al Futtain Engineering
Location : Dubai Exhibition Centre, Dubai, UAE
Year : 2024



Project : Emirates IT College Building
MEP Consultant : Archgroup Consultants
MEP Contractor : International Electro-Mechanical Services Co. LLC
Location : Dubai, UAE
Year : 2024



Project : Habtoor Grand Residences
MEP Consultant : John R Horris
MEP Contractor : China Railway 18th Bureau Group LLC
Location : Dubai, UAE
Year : 2024



Project : Damac Bay 1 by Cavalli
MEP Consultant : KEO Engineering Consultant
MEP Contractor : Menasco Electromechanical
Location : Damac Bay, Dubai, UAE
Year : 2024



Project : Dubai English Speaking School
MEP Consultant : Graphite International
MEP Contractor : Al Shirawi Electrical & Mechanical Company
Location : Academic City, Dubai, UAE
Year : 2024



Project : Muuddoonn Central Park Phase 7&8
MEP Consultant : Dubai Holding Real Estate
MEP Contractor : GESCO Star Electrical & Sanitary Contracting
Location : Dubai, UAE
Year : 2024



Project : Samana Skyros
MEP Consultant : Arec Engineering Consultant
MEP Contractor : Al Andalus Power Electromechanical Works L.L.C
Location : Dubai, UAE
Year : 2024



Project : Jannat Midtown
MEP Consultant : Jouzy Consulting Engineers
MEP Contractor : EMAC Electromechanical LLC
Location : Dubai, UAE
Year : 2024



Project : SRG TOWER
MEP Consultant : Erga Progress Engineering Consultants
MEP Contractor : International Electro-Mechanical Services Co. LLC
Location : Dubai, UAE
Year : 2024



Project : Hayyan Villas Arim 2
MEP Consultant : Al Wasl Al Jadeed Consultants (AWAJ)
MEP Contractor : Anson Construction L.L.C.
Location : Sharjah, UAE
Year : 2024



Project : Al Sabari Residence
MEP Consultant : Next Engineering Consultants
MEP Contractor : Wingate Electromechanical Services LLC
Location : Dubai, UAE
Year : 2024



Project : Manarat Living Phase-2
MEP Consultant : Ultra Architecture consultancy (U+A)
MEP Contractor : Power spray Electromechanical Sole Proprietorship LLC
Location : Abu Dhabi, UAE
Year : 2024



Project : Livel Residenza- JVC
MEP Consultant : Archcorp Architectural Engineering
MEP Contractor : Al Amal Electromechanical L.L.C.
Location : Dubai, UAE
Year : 2024



Project : Sealine Residences
MEP Consultant : Proarc Architects & Engineering Consultants
MEP Contractor : TTE Engineering LLC
Location : Ajman, UAE
Year : 2024

24 | Project References - UAE



Project : Vela by Omniyat
MEP Consultant : Rice Perry Ellis
MEP Contractor : Menasco Mechanical Contracting Co. LLC
Location : Business Bay, Dubai, UAE
Year : 2024



Project : The Violet Tower in JVC
MEP Consultant : CONIN International Consultants
MEP Contractor : Al Ghurair MEP LLC
Location : Dubai, UAE
Year : 2024



Project : Imperial Residence
MEP Consultant : MAKES Engineering Consultancies
MEP Contractor : Al Sarya Technical Artistic
Location : Production City, Dubai, UAE
Year : 2024



Project : 213 Housing Units at Makan in Hatta
MEP Consultant : Al Turath Al Aseel Contracting LLC
MEP Contractor : Parsons / Al Turath Engineering Consultant
Location : Hatta, Dubai, UAE
Year : 2025



Project : Time 3 Residential Building
MEP Consultant : HADI Consulting Engineering
MEP Contractor : Bayan Construction LLC
Location : Dubai, UAE
Year : 2025



Project : DMCC Uptown Phase 2 T3 & T4
MEP Consultant : Samadhin + Associates Consulting Engineers
MEP Contractor : Menasco Mechanical Contracting Co LLC
Location : First Al Khail Street, Dubai, UAE
Year : 2025



Project : Fairmont Residences Solara Tower
MEP Consultant : Group Consult International
MEP Contractor : Bhatia Power Electromechanical
Location : Dubai, UAE
Year : 2025



Project : Iconic Tower
MEP Consultant : SEED Engineering Consultants
MEP Contractor : EMT Electromechanical Works L.L.C
Location : Dubai Internet City, Dubai, UAE
Year : 2025



Project : Como Residences
MEP Consultant : Group Consult International
MEP Contractor : Al Futtaim Engineering
Location : Palm Jumeirah, Dubai, UAE
Year : 2025



Project : DP World Head Office
MEP Consultant : Design & Architecture Bureau (DAR)
MEP Contractor : Al Ghurair MEP LLC
Location : Dubai, UAE
Year : 2025



Project : Nad Al Sheba Gardens Residential
MEP Consultant : Conin International Consultants
MEP Contractor : Bhatia Power Electromechanical
Location : Dubai, UAE
Year : 2025



Project : Canal Residential Project,
MEP Consultant : Dewan Architects & Engineers
MEP Contractor : IZone Electromechanical Contractors L.L.C (IZEC)
Location : Dubai, UAE
Year : 2025



Project : Brighton Grand
Contractor : Airtemp
Location : Brighton, England
Year : 2018



Project : Edinburgh House, London
Contractor : Sapphire Mechanical & Electrical Services
Location : London, England
Year : 2018



Project : Shoreham Harbour – GRP Tray
Contractor : DW Electrical
Location : Shoreham, England
Year : 2020



Project : Covid Testing Lab - University hospitals
Contractor : Kier and Totus Engineering
Location : Plymouth, England
Year : 2021



Project : Stansted Tunnel
Contractor : J Murphy & Sons
Location : Stansted, England
Year : 2022



Project : Belfry Golf Course
Contractor : Solijet
Location : Belfry Golf Course
Year : 2023



Project : Luton & Dunstable Hospital
Contractor : Meckel
Location : Luton, England
Year : 2024



Project : Abbey House Dental Surgery
Contractor : Penkhull Electrical
Location : Stoke on Trent, England
Year : 2024



Project : Jordan Gate, North Tower
MEP Consultant : Al Nasser + Partners Architect & Engineers
MEP Contractor : Jet Contracting
Location : Jordan
Year : 2024



Project : Azure Twin Tower
MEP Consultant : FD Consult
MEP Contractor : MechaTronics WLL
Location : Lusail, Qatar
Year : 2024



Project : 493 housing units 29 residential buildings
Sidra neighborhood
MEP Consultant : HAJ Gulf Consultancy / AJ Consult
MEP Contractor : HOMES Contracting Company
Location : KSA
Year : 2025



Project : LEW Head Office
Contractor : Analogue Electrics
Location : Lincolnshire, England
Year : 2025

Notes



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In pursuance of our policy of continued product improvement Marshall-Tufflex reserve the right to change the design or specification of its products without notification.



Factory Video



Catalogue



Tech. Data Sheets

