

APLIKASI PERATURAN-PERATURAN, STANDARD DAN SPESIFIKASI JKR BAGI PENDAFTARAN BAHAN/ BARANGAN ELEKTRIK (EMAL)

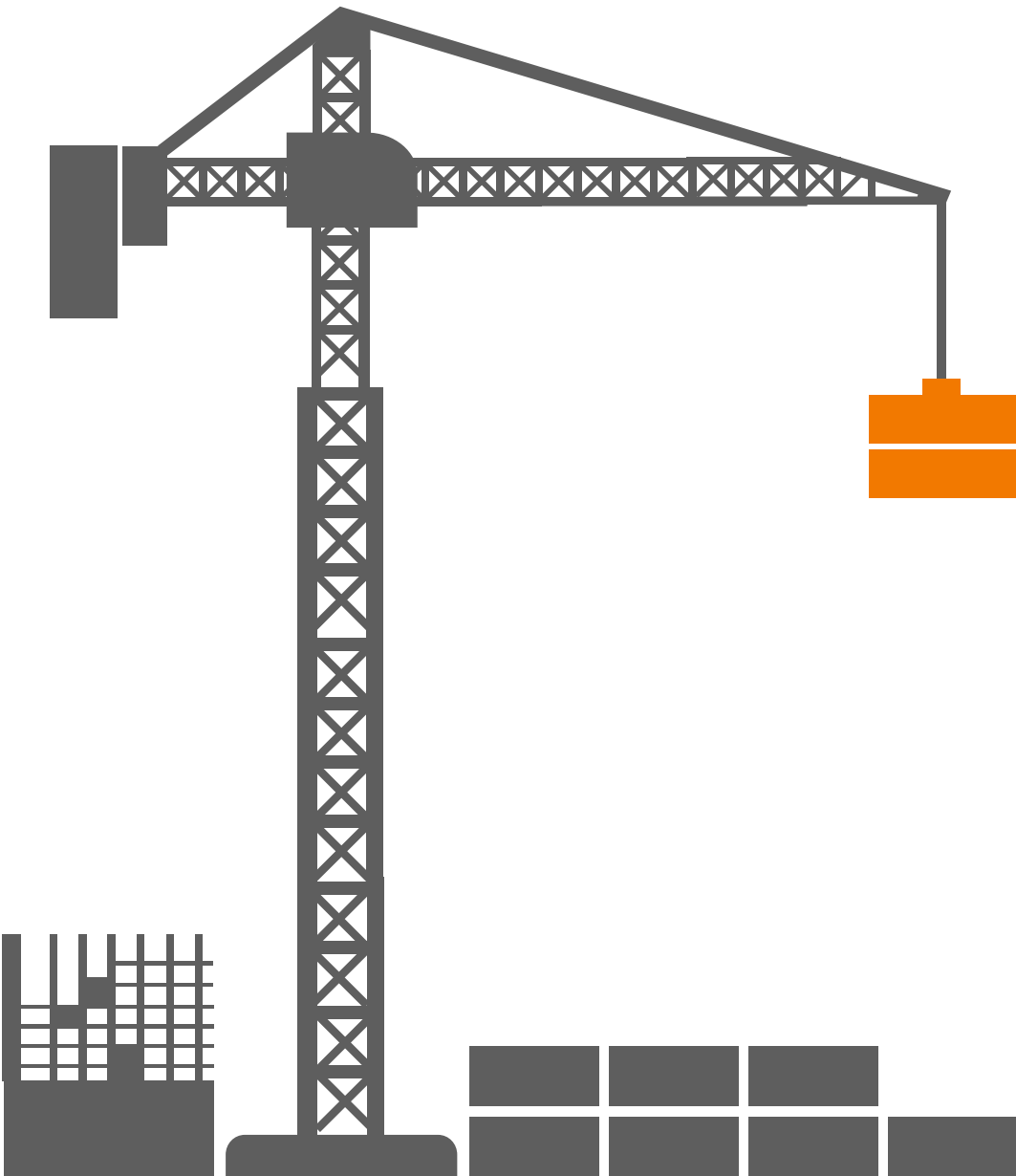
KAJIAN KES 1:

*Galvanized Steel Conduit & Accessories, Rigid High Impact
PVC Conduit & Fittings, Cable Trunking System C/W
Accessories, Cable Tray System C/W Accessories dan Cable
Ladder System C/W Accessories*

DISEDIAKAN OLEH:

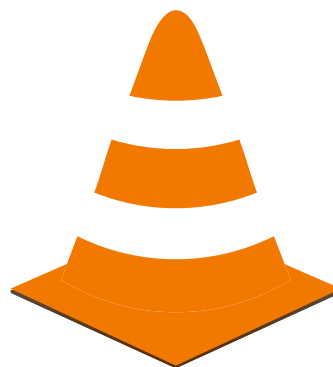
Ahmad Fikri bin Mohd Fauzi





Isi Kandungan

- 01** Pengenalan
- 02** Metallic Conduit & Conduit Fitting
(Galvanised Steel Conduit and Accessories)
- 03** Non-Metallic Conduit & Conduit Fitting (Rigid
High Impact PVC Conduit and Fittings)
- 04** Classification Code Bagi Conduit System
- 05** Cable Trunking System C/W Accessories
- 06** Cable Tray System C/W Accessories
- 07** Cable Ladder System C/W Accessories
- 08** Jenis Steel Sheet Material Bagi Cable
Trunking System, Cable Tray System dan
Cable Ladder System



01

Pengenalan

Pengenalan

SENARAI KATEGORI

Displaying 1-26 of 26 results.

No	Kumpulan	Nama Kategori	Nama Sub kumpulan	
1	EE01100	CABLES	KABEL DAN AKSESORI PENDAWAIAN	
2	EE01110	G.S CONDUITS & HIGH IMPACT PVC CONDUITS	KABEL DAN AKSESORI PENDAWAIAN	
3	EE01120	BUSDUCT TRUNKING SYSTEM / CABLE MANAGEMENT SYSTEM	KABEL DAN AKSESORI PENDAWAIAN	
4	EE01130	SWITCHES	KABEL DAN AKSESORI PENDAWAIAN	
5	EE01160	EARTHING SYSTEM & ACCESSORIES	KABEL DAN AKSESORI PENDAWAIAN	



SENARAI BAHAN/BARANGAN YANG DILULUSKAN

Displaying 1-3 of 3 results.

No	Kod Barang	Nama Barang	Status Barang	
1	EE011101	GALVANISED STEEL CONDUIT	MANDATORI	
2	EE011102	GALVANISED STEEL CONDUIT ACCESSORIES	TAMBAHAN	
3	EE011103	RIGID HIGH IMPACT PVC CONDUIT & CONDUITS FITTINGS	MANDATORI	

SENARAI KATEGORI

Displaying 1-26 of 26 results.

No	Kumpulan	Nama Kategori	Nama Sub kumpulan	
1	EE01100	CABLES	KABEL DAN AKSESORI PENDAWAIAN	
2	EE01110	G.S CONDUITS & HIGH IMPACT PVC CONDUITS	KABEL DAN AKSESORI PENDAWAIAN	
3	EE01120	BUSDUCT TRUNKING SYSTEM / CABLE MANAGEMENT SYSTEM	KABEL DAN AKSESORI PENDAWAIAN	
4	EE01130	SWITCHES	KABEL DAN AKSESORI PENDAWAIAN	
5	EE01160	EARTHING SYSTEM & ACCESSORIES	KABEL DAN AKSESORI PENDAWAIAN	



SENARAI BAHAN/BARANGAN YANG DILULUSKAN

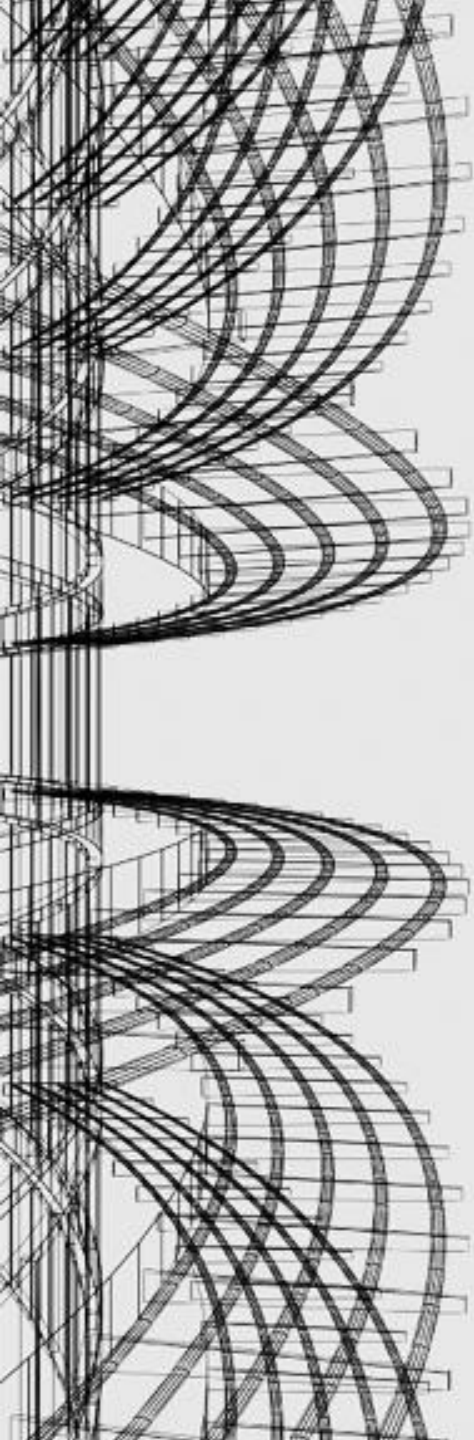
Displaying 1-8 of 8 results.

No	Kod Barang	Nama Barang	Status Barang	
1	EE011201	BUSBAR TRUNKINGS (BUSDUCT)	MANDATORI	
2	EE011202	CABLE TRAY C/W ACCESSORIES	MANDATORI	
3	EE011203	CABLE MANAGEMENT SYSTEM C/W ACCESSORIES (UNDERFLOOR SYSTEM)	TAMBAHAN	
4	EE011204	CABLE LADDER C/W ACCESSORIES	MANDATORI	
5	EE011205	CABLE TRUNKING SYSTEM C/W ACCESSORIES	MANDATORI	
6	EE011207	CABLE MANAGEMENT SYSTEM C/W ACCESSORIES (RAISED FLOOR SYSTEM)	TAMBAHAN	



02

Metallic Conduit & Conduit Fitting (Galvanised Steel Conduit and Accessories)

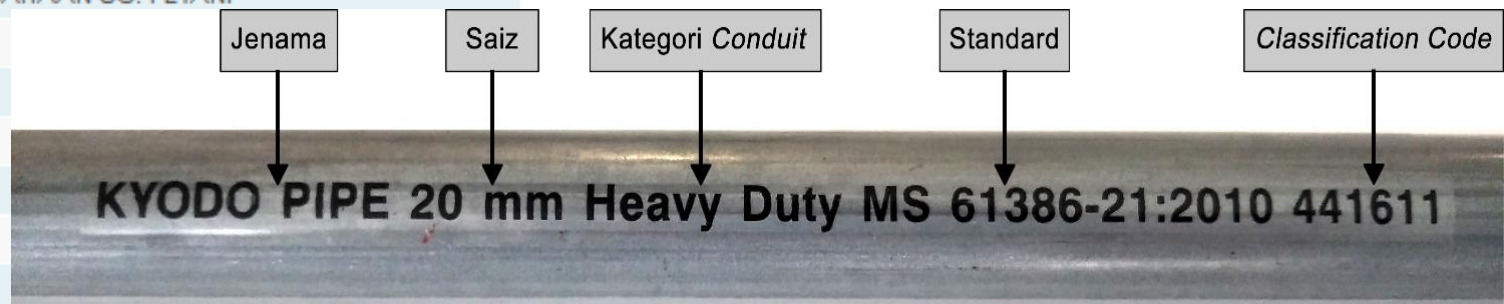


Metallic Conduit & Conduit Fitting (Galvanised Steel Conduit and Accessories) – Spesifikasi JKR (L-S1)

	Galvanised Steel Conduit	Galvanised Steel Conduit Accessories
Standards	1. MS IEC 61386-1 Conduit Systems for Cable Management – Part 1: General Requirements 2. MS 61386-21 Conduit Systems for Cable Management – Part 21: Rigid Conduit Systems 3. MS IEC 60423 Conduit Systems for Cable Management – Outside diameters of conduits for electrical installations and threads for conduits and fittings	
Standards Focus	1. Resistance to compression classification (class 4 and above) 2. Resistance to impact classification (class 4 and above) 3. Resistance against corrosion (class 3 and above)	1. Resistance to impact classification (class 4 and above) 2. Resistance against corrosion (class 3 and above)
Outside Diameter	20 mm, 25 mm & 32 mm *	
SIRIM Product Certification	Compulsory *	
Type of Materials	Steel tube	Alluminium alloy
Coatings	Hot dip galvanized coating with/without orange colored stove enamel (epoxy and/or polyester powder coating)	Without coating
Supplied from Same Manufacturer	Not compulsory	

Metallic Conduit & Conduit Fitting (Galvanised Steel Conduit) – EMAL

Keterangan Barangan	GALVANISED STEEL CONDUIT
Kod Barangan	EE011101.ME501.A447
Nama Syarikat	KYODO PIPE SDN BHD
Status Syarikat	PENGILANG
Alamat	PLOT 322 JALAN PKNK 3/2,KAWASAN PERUSAHAAN SG. PETANI 08000 SG. PETANI KEDAH
No Telefon	044445178
No Fax	044400521
Email	yx.lim@kyodopipe.com
Website	www.kyodopipe.com.my
Jenama	KYODO PIPE
No Laporan	PENSIJILAN SIRIM :PC001775, LAPORAN UJIAN : 2019EA1175, 2019EA1175-S1 & 2019CED0724
Tarikh Tamat	15-10-2022
Rujukan	MS IEC 61386-21:2010 & MS IEC 61386-1:2010
Catatan	MATERIAL : i) GALVANISED STEEL ii) OVEN BAKED COLOUR COATED : ORANGE CLASSIFICATION CODE : 441611403410; CORROSION RESISTANCE CLASS : 3 (MEDIUM PROTECTION INSIDE, HIGH PROTECTION OUTSIDE)
Negara	MALAYSIA

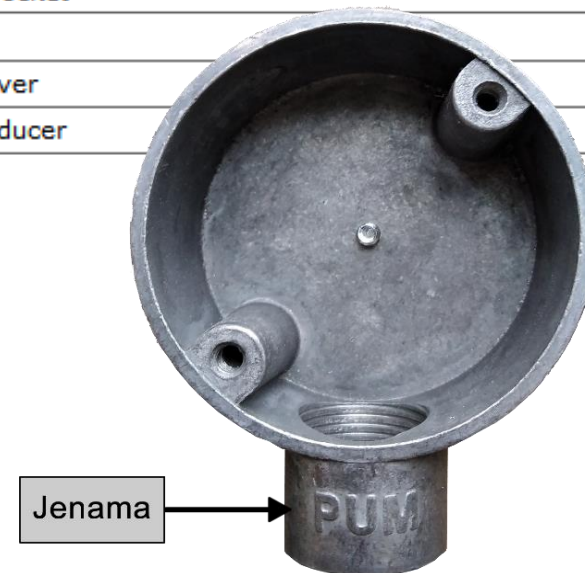


Bil	Model	CONDUIT SIZE (DIAMETER X LENGTH)	CLASS	Gambar
1	20mm	20mmx 3.81m	3	
2	25mm	25mmx 3.81m	3	

Metallic Conduit & Conduit Fitting (Galvanised Steel Conduit Accessories) – EMAL

Keterangan Barangan	GALVANISED STEEL CONDUIT ACCESSORIES
Kod Barangan	EE011102.ME582.A347
Nama Syarikat	PAN UNION METAL INDUSTRIES SDN. BHD.
Status Syarikat	PENGILANG
Alamat	LOT 74273 & 74274, PINJI INDUSTRIAL ESTATE, JALAN PENGKALAN -SIMPANG PULAI, 31500 LAHAT PERAK
No Telefon	053219662
No Fax	053218617
Email	pumipoh@gmail.com
Website	-
Jenama	PUM
No Laporan	PENSIJILAN SIRIM : PC003828 LAPORAN UJIAN : 2018EA0708
Tarikh Tamat	15-10-2021
Rujukan	MS IEC 61386-21:2010
Catatan	i) MATERIAL : ALUMINIUM ALLOY ii) CLASSIFICATION CODE : 4421
Negara	MALAYSIA

Bil	DESCRIPTION	SAIZ
1	Terminal 1 Way Junction Box	20mm & 25mm
2	Terminal 2 Way Through Junction Box	20mm & 25mm
3	Terminal 2 Way Angle Junction Box	20mm & 25mm
4	Terminal 3 Way Junction Box	20mm & 25mm
5	Terminal 4 Way Junction Box	20mm & 25mm
6	Inspection Bend	20mm & 25mm
7	Inspection Elbow	20mm & 25mm
8	Inspection Tee	20mm & 25mm
9	Flex Tubing Adaptor	20mm & 25mm
10	Conduit Socket	20mm & 25mm
11	Lock Nut	20mm & 25mm
12	Dome Cover	20mm & 25mm
13	Screw Reducer	20mm & 25mm



Metallic Conduit & Conduit Fitting (Galvanised Steel Conduit Accessories) – Contoh Senarai Jenis Accessories



Terminal 1 Way Box



Through 2 Way Box



Tee 3 Way Box



Angle 2 Way Box



Intersection 4 Way Box



Inspection Tee



Inspection Elbow



Inspection Bend



Coupling/Socket



Locknut



Lid Cover



Dome Cover



Screw Reducer



Flex Tube Adaptor



Saddles



03

Non-Metallic Conduit & Conduit Fitting (Rigid High Impact PVC Conduit and Fittings)

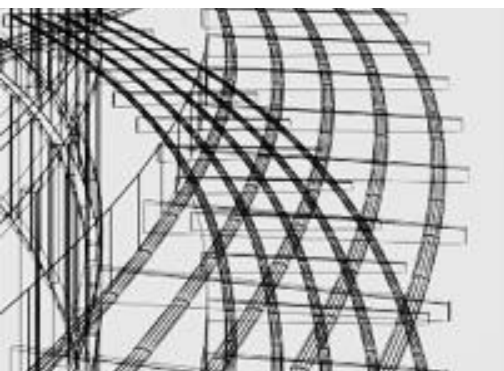
Non-Metallic Conduit & Conduit Fitting (Rigid High Impact PVC Conduit and Fittings – Spesifikasi JKR (L-S1))

	Rigid High Impact PVC Conduit	Rigid High Impact PVC Conduit Fitting
Standards	1. MS IEC 61386-1 Conduit Systems for Cable Management – Part 1: General Requirements 2. MS 61386-21 Conduit Systems for Cable Management – Part 21: Rigid Conduit Systems 3. MS IEC 60423 Conduit Systems for Cable Management – Outside diameters of conduits for electrical installations and threads for conduits and fittings	
Standards Focus	1. Resistance to compression classification (class 4 and above) 2. Resistance to impact classification (class 4 and above) 3. Lower temperature range (class 2) 4. Upper temperature range (class 1)	1. Resistance to impact classification (class 4 and above) 2. Lower temperature range (class 2) 3. Upper temperature range (class 1)
Outside Diameter	20 mm & 25 mm *	
SIRIM Product Certification	Compulsory	
Type of Materials	PVC/UPVC	
Coatings	Without coating (White)	
Supplied from Same Manufacturer	Compulsory	



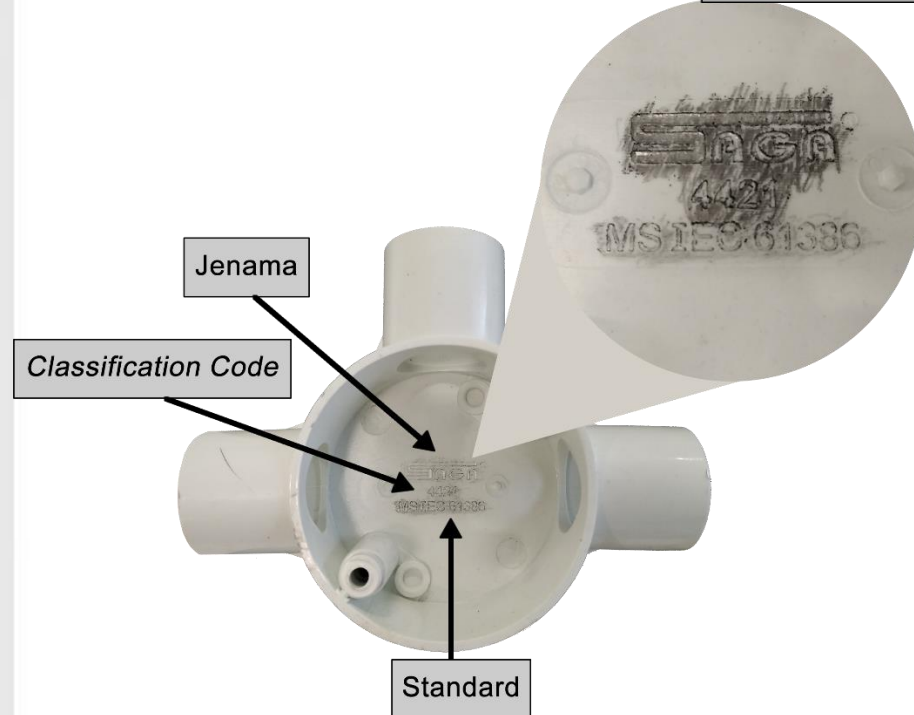
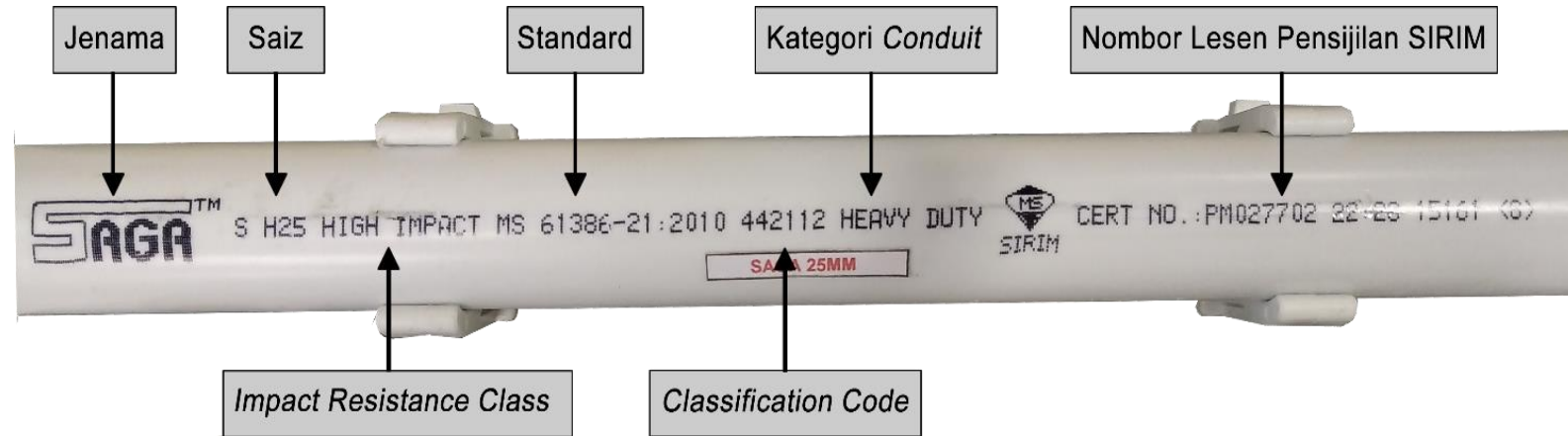
Non-Metallic Conduit & Conduit Fitting (Rigid High Impact PVC Conduit and Fittings) – EMAL

Keterangan Barangan	RIGID HIGH IMPACT PVC CONDUIT & CONDUITS FITTINGS
Kod Barangan	EE011103.ME191.A205
Nama Syarikat	MEGAPOWER MANUFACTURING (M) SDN BHD
Status Syarikat	PENGILANG
Alamat	LOT 1888,KAWASAN PERINDUSTRIAN BUKIT BELIMBING 43300 BALAKONG SELANGOR
No Telefon	03-89623333
No Fax	03-89622266
Email	jon@pvclink
Website	www.megapower.net.my
Jenama	SAGA
No Laporan	PENSUJILAN SIRIM: PM027702 & PM027703 LAPORAN UJIAN SIRIM: 2018EA0408 & 2017EEA1253
Tarikh Tamat	15-06-2023
Rujukan	MS 61386-21:2010
Catatan	1. PENGGUNAAN BAHAN INI HENDAKLAH MENGGUNAKAN "CONDUIT FITTING" DARI JENIS HEAVY DUTY (HD) CLASSIFICATION CODE 4421 SAHAJA. 2. TIDAK BOLEH DIGUNAKAN BAGI PENDAWAIAN SISTEM PERLINDUNGAN KEBAKARAN.
Negara	MALAYSIA



Bil	Model	DESCRIPTION	Gambar
1	20mm (4421)	CONDUIT (WHITE)	
2	20mm	TERMINAL ONE WAY BOX	
3	20mm	TWO WAY BOX	
4	20mm	ANGLE TWO WAY BOX	
5	20mm	TEE THREE WAY BOX	
6	20mm	INTERSECTION FOUR WAY BOX	
7	20mm	COUPLING	
8	25mm (4421)	CONDUIT (WHITE)	
9	25mm	TERMINAL ONE WAY BOX	
10	25mm	TWO WAY BOX	
11	25mm	ANGLE TWO WAY BOX	
12	25mm	TEE THREE WAY BOX	
13	25mm	INTERSECTION FOUR WAY BOX	
14	25mm	COUPLING	

Non-Metallic Conduit & Conduit Fitting (Rigid High Impact PVC Conduit and Fittings) – EMAL



Metallic Conduit & Conduit Fitting (Rigid High Impact PVC Conduit and Fittings) – Contoh Senarai Jenis Fittings



Terminal 1 Way Box



Through 2 Way Box



Angle 2 Way Box



Tee 3 Way Box



Intersection 4 Way Box



Coupling/Socket



Cover



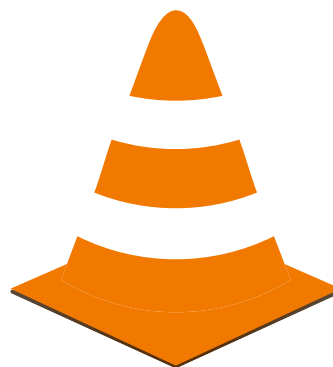
Inspection Elbow



Inspection Tee

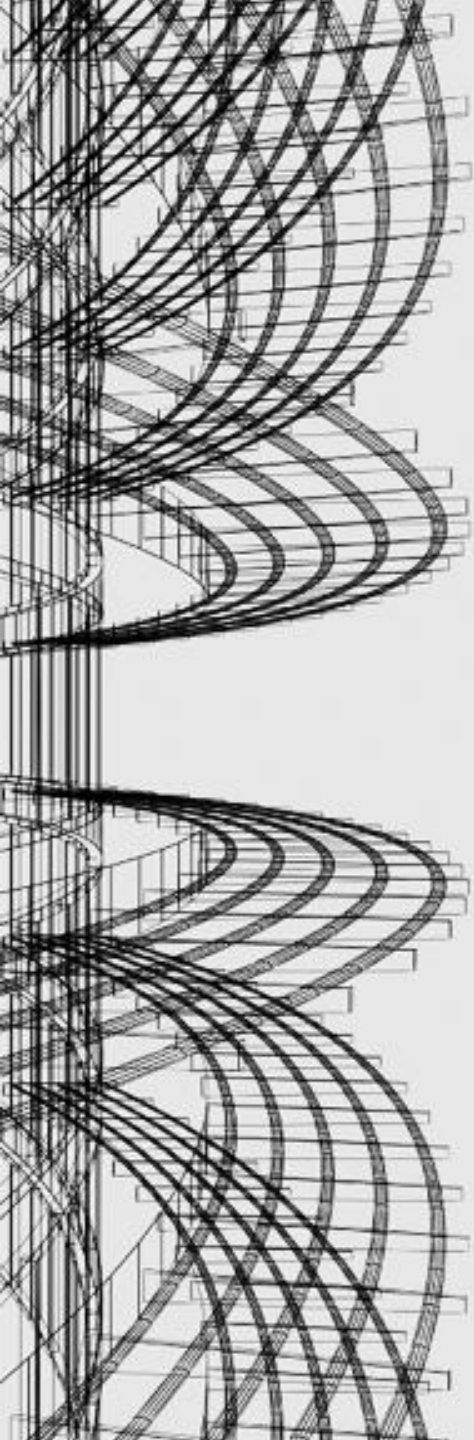


Inspection Bend



04

Classification Code Bagi Conduit System



Classification Code Bagi Conduit System – MS IEC 61386-1

1. Kaedah menyemak classification code for conduit system ini tergunapakai bagi bahan/barangan Rigid High Impact PVC Conduit & Conduit Fittings serta Galvanised Steel Conduit & Conduit Accessories.
2. Penandaan classification code pada bahan/barangan Conduit adalah bukan mandatori dan mestilah berpandukan Annex A serta sekurang-kurangnya perlu dimasukkan empat digit yang pertama daripada 12 digit keseluruhan.
3. Classification code perlu dibaca bermula dengan digit yang pertama di sebelah kiri hingga ke kanan.
4. Setiap kod membawa maksud yang tersendiri. Sila rujuk jadual di sebelah.

Classification Code Bagi Conduit System – MS IEC 61386-1 (Annex A)

First digit – Resistance to compression	
Very light compression strength	1
Light compression strength	2
Medium compression strength	3
Heavy compression strength	4
Very heavy compression strength	5

Second digit – Resistance to impact	
Very light impact strength	1
Light impact strength	2
Medium impact strength	3
Heavy impact strength	4
Very heavy impact strength	5

Third digit – Lower temperature range	
+5 °C	1
-5 °C	2
-15 °C	3
-25 °C	4
-45 °C	5

Fourth digit – Upper temperature range	
+60 °C	1
+90 °C	2
+105 °C	3
+120 °C	4
+150 °C	5
+250 °C	6
+400 °C	7

Fifth digit – Resistance to bending	
Rigid	1
Pliable	2
Pliable / self recovering	3
Flexible	4

Sixth digit – Electrical characteristics	
None declared	0
With electrical continuity characteristics	1
With electrical insulating characteristics	2
With electrical continuity and insulating characteristics	3

Contoh:

- Galvanised Steel Conduit & Conduit Accessories
- Rigid High Impact PVC Conduit & Conduit Fittings

= **441611**403410

= **442112**

Classification Code Bagi Conduit System – MS IEC 61386-1 (Annex A)

Seventh digit – Protection against ingress of solid objects	
Protected against solid foreign objects of 2.5 mm diameter and greater	3
Protected against solid foreign objects of 1.0 mm diameter and greater	4
Dust protected	5
Dust-tight	6

Eighth digit – Protection against ingress of water	
None declared	0
Protected against vertically falling water drops	1
Protected against vertically falling water drops when the conduit system is tilted up to an angle of 15 °	2
Protected against spraying water	3
Protected against splashing water	4
Protected against water jets	5
Protected against powerful water jets	6
Protected against the effects of temporary immersion in water	7

Ninth digit – Resistance against corrosion	
Low protection inside and outside	1
Medium protection inside and outside	2
Medium protection inside, high protection outside	3
High protection inside and outside	4

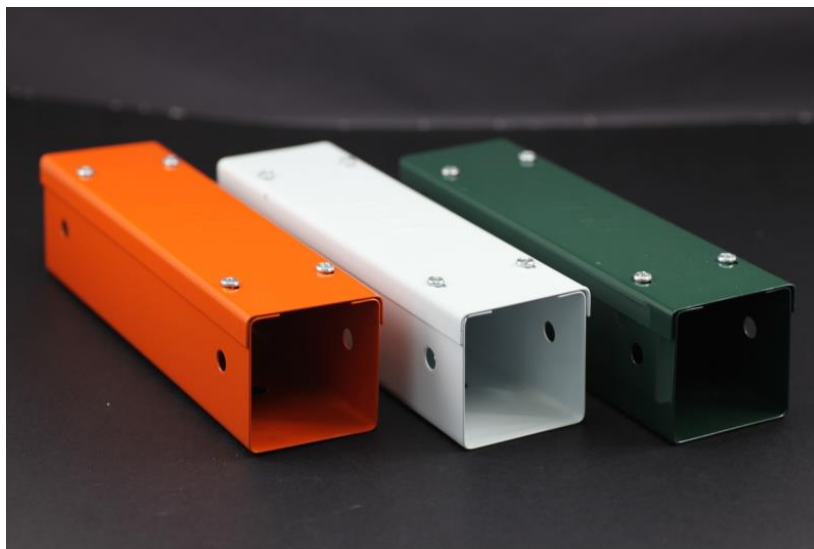
Tenth digit – Tensile strength	
Non declared	0
Very light tensile strength	1
Light tensile strength	2
Medium tensile strength	3
Heavy tensile strength	4
Very heavy tensile strength	5

Eleventh digit – Resistance to flame propagation	
Non-flame propagating	1
Flame propagating	2

Twelfth digit – Suspended load capacity	
Non declared	0
Very light suspended load capacity	1
Light suspended load capacity	2
Medium suspended load capacity	3
Heavy suspended load capacity	4
Very heavy suspended load capacity	5

Contoh:

- a) Galvanised Steel Conduit & Conduit Accessories = 441611**403410**
- b) Rigid High Impact PVC Conduit & Conduit Fittings = 442112

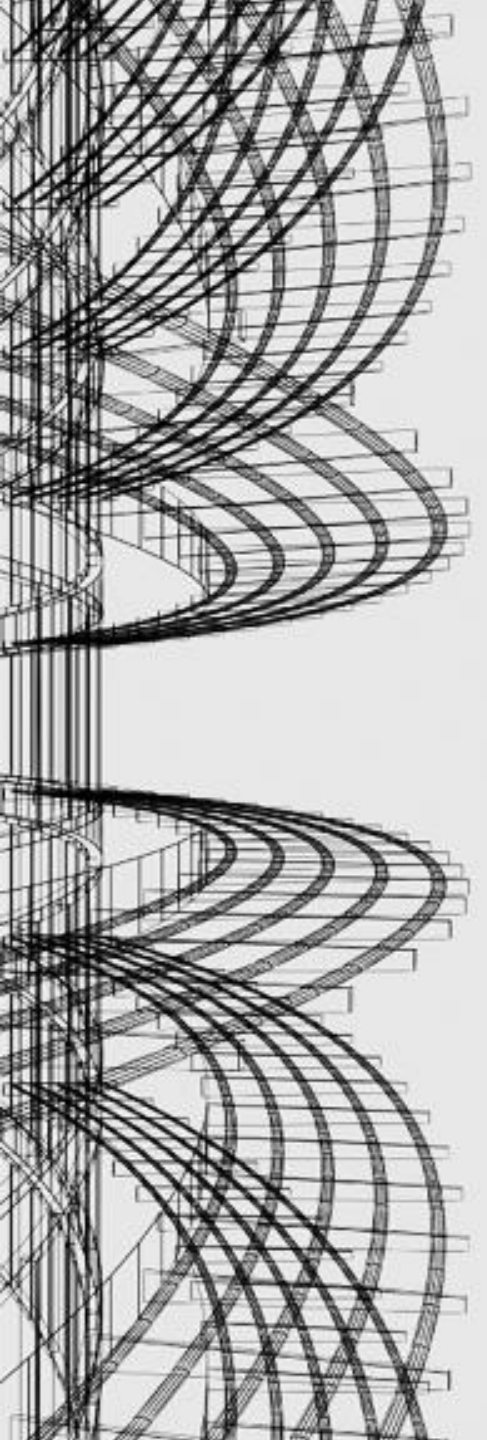


05

Cable Trunking System C/W Accessories

Cable Trunking System C/W Accessories – Spesifikasi JKR (L-S1)

Cable Trunking C/W Accessories			
Standards	1. MS IEC 61084-1 Cable Trunking And Ducting Systems For Electrical Installations – Part 1: General Requirements 2. IEC 61084-2-1 Cable trunking systems and cable ducting systems for electrical installations - Part 2-1: Particular requirements - Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings		
Standards Focus	None		
SIRIM Product Certification	Compulsory *		
Accessories Supplied from Same Manufacturer	Compulsory		
Trunking joint	Tinned copper tape		
Nominal Size (mm x mm)	50 x 50 and below	75 x 50 to 100 x 100	150 x 50 to 300 x 150
Minimum Wall Thickness (mm)	1.0	1.2	1.6



Cable Trunking System C/W Accessories – Spesifikasi JKR (L-S1)

Cable Trunking C/W Accessories			
Type of Materials	1. Cold rolled steel sheet 2. Hot rolled steel sheet	1. Electrogalvanised steel sheet 2. Hot dip galvanized steel sheet	1. Hot dip galvanized steel sheet 2. SuperDyma steel sheet * 3. Stainless steel sheet *
Coatings	Hot dip galvanised	Orange colored stove enamel (epoxy and/or polyester powder coating)	Without final/post coating

Cable Trunking System C/W Accessories – EMAL

Keterangan Barangan	CABLE TRUNKING SYSTEM C/W ACCESSORIES
Kod Barangan	EE011205.ME570.A530
Nama Syarikat	CEE INDUSTRIES SDN. BHD.
Status Syarikat	PENGILANG
Alamat	LOT PTD 149226, JALAN BERJAYA 7, TAMAN PERINDUSTRIAN BERJAYA, KEMPAS LAMA 81300 JOHOR BAHRU JOHOR
No Telefon	075572511
No Fax	075572911
Email	ceemalaysia@cee.com.my
Website	-
Jenama	CEE
No Laporan	LESEN PENSIJILAN SIRIM : PC004005; LAPORAN UJIAN SIRIM : 2018EA1233
Tarikh Tamat	15-10-2022
Rujukan	MS IEC 61084-1:2006 & IEC 1084-2-1:1996
Catatan	i) MATERIAL : SUPERDYMA; ii) FASTERNERS : BOLT, NUT, SELF TAPPING SCREW & COPPER LINK; iii) ACCESSORIES : FLATWISE TEE, FLATWISE CROSS, FLATWISE ELBOW, INTERNAL RISER, EXTERNAL RISER, LEFT SIDE REDUCER, REDUCER, RIGHT SIDE REDUCER, PARALLEL ELBOW, MULTI-COMPARTMENT CABLE TRUNKING, INNER BRACKET ON TRUNKING BASE & ENDPLATE FOR CABLE TRUNKING.
Negara	MALAYSIA

Bil	MODEL	WEIGHT, W (mm)	HEIGHT, H (mm)	THICKNESS, t (mm)	LENGTH, l (mm)
1	MT-CEE 021-10 SD	50	25	1.0	2438
2	MT-CEE 022-10 SD	50	50	1.0	2438
3	MT-CEE 032-12 SD	75	50	1.2	2438
4	MT-CEE 044-12 SD	100	100	1.2	2438



Cable Trunking System C/W Accessories – Semakan sampel



Width = 50 mm



Height = 50 mm

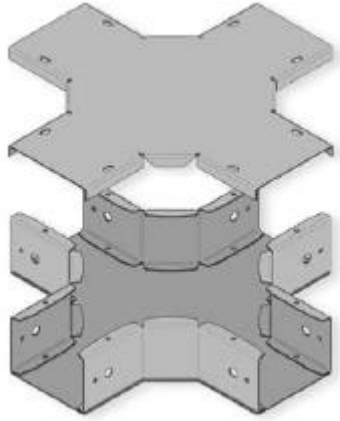


Cover thickness = 1.2 mm

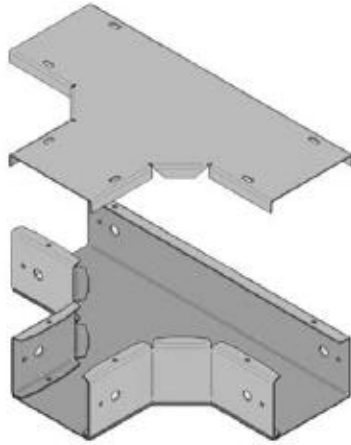


Body thickness = 1.2 mm

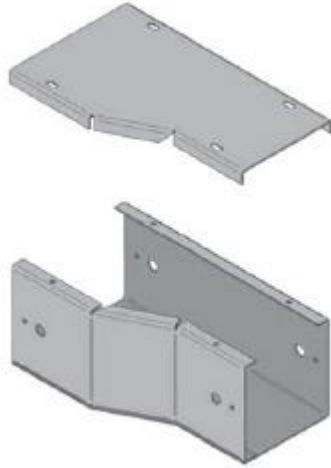
Cable Trunking System C/W Accessories – Contoh Senarai Jenis Accessories



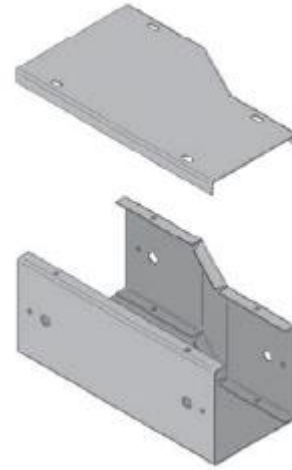
Horizontal Cross



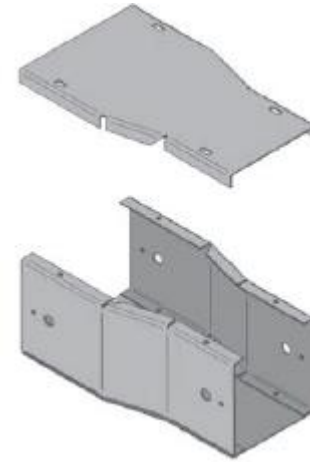
Horizontal Tee



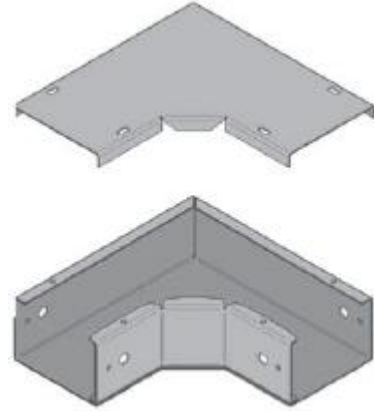
Right Reducer



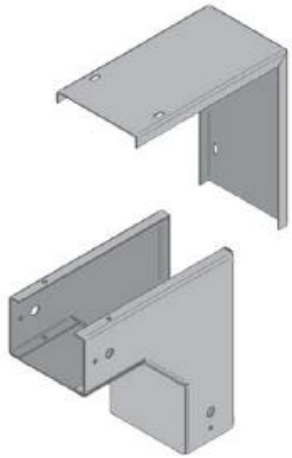
Left Reducer



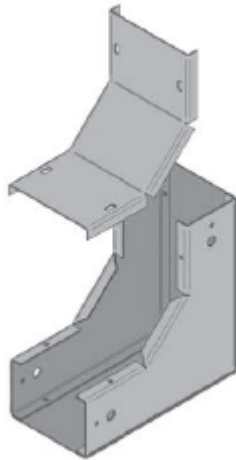
Straight Reducer



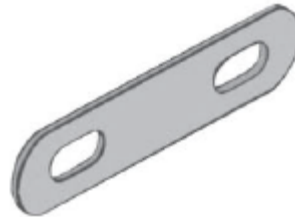
Horizontal Elbow



Left Internal Riser



Right Internal Riser



Earth Link

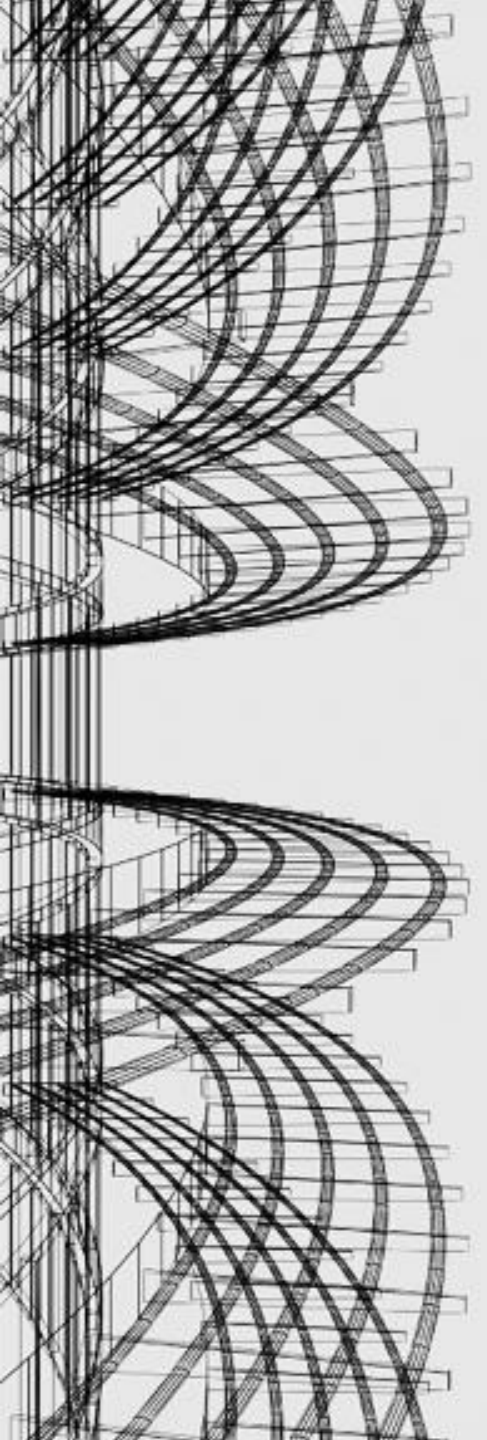
Common interchangeable term:

Internal / Inside Riser	Vertical System	Edgewise
External / Outside Riser		
	Horizontal System	Flatwise



06

Cable Tray System C/W Accessories



Cable Tray System C/W Accessories – Spesifikasi JKR (L-S1)

	Cable Tray C/W Accessories
Standards	MS IEC 61537 Cable tray systems and cable ladder systems for cable management
Standards Focus	None
SIRIM Product Certification	Not compulsory
Accessories Supplied from Same Manufacturer	Compulsory

Cable Tray System C/W Accessories – Spesifikasi JKR (L-S1)

	Cable Tray C/W Accessories Sizing							
Type of Materials	1. Perforated cold rolled steel sheet 2. Perforated hot rolled steel sheet		1. Perforated hot dip galvanized steel sheet		1. Perforated electrogalvanised steel sheet		1. Perforated SuperDyma steel sheet * 2. Perforated stainless steel sheet *	
Coatings	Hot dip galvanised		Without final/post coating Orange colored stove enamel (epoxy and/or polyester powder coating)		Orange colored stove enamel (epoxy and/or polyester powder coating)		Without final/post coating	
Width (mm)	All width		All width		≤ 300	> 300	≤ 300	> 300
Thickness (mm)	2.0		2.0		1.5	2.0	1.5	2.0

Cable Tray System C/W Accessories – EMAL

Keterangan Barangan	CABLE TRAY C/W ACCESSORIES
Kod Barangan	EE011202.ME122.A470
Nama Syarikat	SIRIJAYA INDUSTRIES SDN. BHD.
Status Syarikat	PENGILANG
Alamat	NO. 9, LEBUH PERUSAHAAN KLEBANG 9, IGB INTERNATIONAL INDUSTRIAL PARK, 31200 CHEMOR PERAK
No Telefon	052923888
No Fax	05-2912222
Email	qa@sirijaya.com
Website	www.sirijaya.com
Jenama	SJ TRUNK
No Laporan	LESEN PENSIJILAN SIRIM : PC004774 LAPORAN UJIAN SIRIM : 2018MA1132
Tarikh Tamat	15-06-2022
Rujukan	MS IEC 61537:2007
Catatan	i) MODEL : TYPE U ii) MATERIAL : PERFORATED ELECTROGALVANIZED STEEL WITH EPOXY POWDER COATING iii) ACCESSORIES : FLATWISE ELBOW, FLATWISE EQUAL TEE, FLATWISE EQUAL CROSS, RIGHT HAND REDUCER, LEFT HAND REDUCER, STRAIGHT REDUCER, EDGEWISE ELBOW LEFT, EDGEWISE ELBOW RIGHT, COUPLER AND COPPER BAR. iv) FASTENERS : PAN HEAD SCREW, SPRING WASHER AND HEX NUT.
Negara	MALAYSIA

Bil	MODEL	WIDTH (mm)	HEIGHT (mm)	THICKNESS (mm)	LENGTH (mm)
1	SCT/U-(50X13) EG	50	13	1.5	2438
2	SCT/U-(75X13) EG	75	13	1.5	2438
3	SCT/U-(100X13) EG	100	13	1.5	2438
4	SCT/U-(150X13) EG	150	13	1.5	2438
5	SCT/U-(200X17) EG	200	17	1.5	2438
6	SCT/U-(250X17) EG	250	17	1.5	2438
7	SCT/U-(300X17) EG	300	17	1.5	2438
8	SCT/U-(350X20) EG	350	20	2.0	2438
9	SCT/U-(400X20) EG	400	20	2.0	2438
10	SCT/U-(450X20) EG	450	20	2.0	2438
11	SCT/U-(500X25) EG	500	25	2.0	2438
12	SCT/U-(550X25) EG	550	25	2.0	2438
13	SCT/U-(600X25) EG	600	25	2.0	2438
14	SCT/U-(650X25) EG	650	25	2.0	2438
15	SCT/U-(700X25) EG	700	25	2.0	2438
16	SCT/U-(750X25) EG	750	25	2.0	2438
17	SCT/U-(800X25) EG	800	25	2.0	2438
18	SCT/U-(850X25) EG	850	25	2.0	2438
19	SCT/U-(900X25) EG	900	25	2.0	2438
20	SCT/U-(950X25) EG	950	25	2.0	2438
21	SCT/U-(1000X25) EG	1000	25	2.0	2438



Cable Tray System C/W Accessories – Semakan sampel



Width = 150 mm



Height = 13 mm



Thickness = 1.68 mm

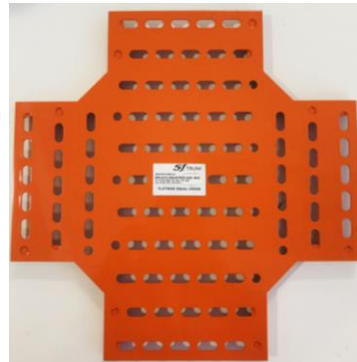
Cable Tray System C/W Accessories – Contoh Senarai Jenis Accessories



Flatwise Elbow



Flatwise Equal Tee



Flatwise Equal Cross



Right Reducer



Left Reducer



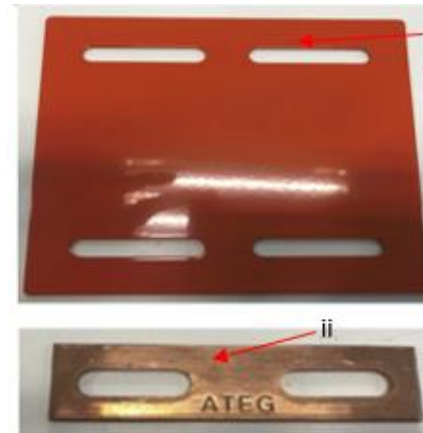
Straight Reducer



Edgewise Elbow Left



Edgewise Elbow Right



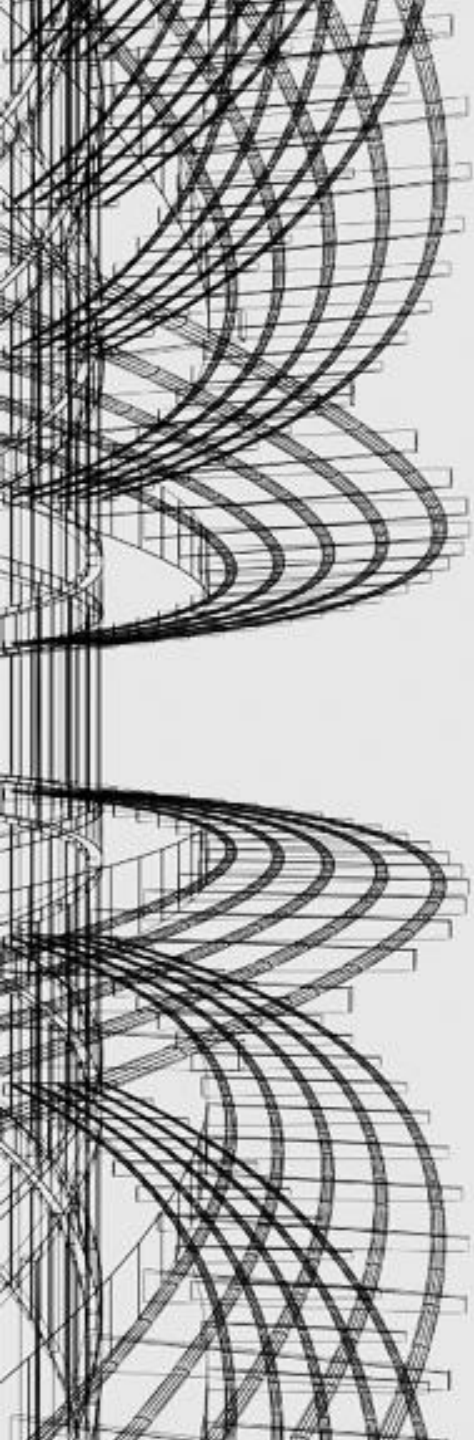
Coupler and Copper Bar

Common interchangeable term:		
Internal / Inside Riser	Vertical System	Edgewise
External / Outside Riser		
	Horizontal System	Flatwise



07

Cable Ladder System C/W Accessories



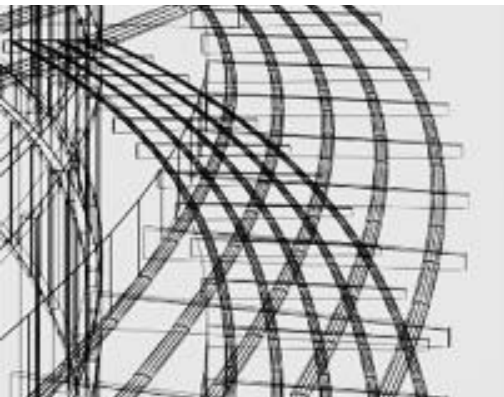
Cable Ladder System C/W Accessories – Spesifikasi JKR (L-S1)

	Cable Ladder C/W Accessories	
Standards	MS IEC 61537 Cable tray systems and cable ladder systems for cable management	
Standards Focus	None	
SIRIM Product Certification	Not compulsory	
Accessories Supplied from Same Manufacturer	Compulsory	
Built Type	1. Welded 2. Screwed	
Thickness (mm)	2.0	
Type of Materials	1. Cold rolled steel sheet 2. Hot rolled steel sheet	1. Hot dip galvanized steel sheet 2. SuperDyma steel sheet * 3. Stainless steel sheet *
Coatings	Hot dip galvanized	Without final/post coating

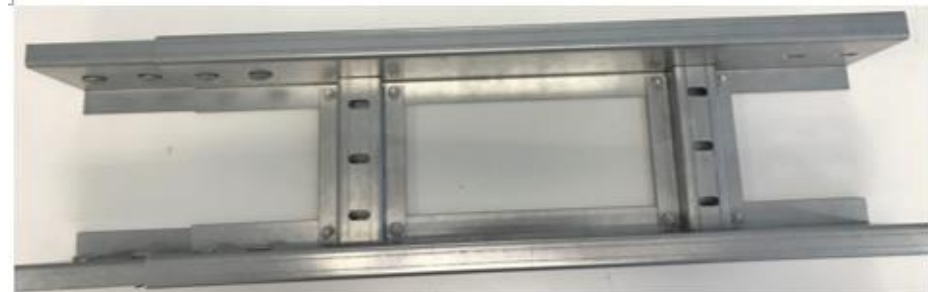
Cable Ladder System C/W Accessories – EMAL



Keterangan Barangan	CABLE LADDER C/W ACCESSORIES
Kod Barangan	EE011204.ME122.A470
Nama Syarikat	SIRJAYA INDUSTRIES SDN. BHD.
Status Syarikat	PENGILANG
Alamat	NO. 9, LEBUH PERUSAHAAN KLEBANG 9, IGB INTERNATIONAL INDUSTRIAL PARK, 31200 CHEMOR PERAK
No Telefon	052923888
No Fax	05-2912222
Email	qa@sirjaya.com
Website	www.sirjaya.com
Jenama	SJ TRUNK
No Laporan	LESEN PENSIJILAN SIRIM : PC005236 LAPORAN UJIAN SIRIM : 2020MA1085
Tarikh Tamat	15-06-2022
Rujukan	MS IEC 61537:2007
Catatan	i) MODEL : TYPE Z - KNOCK DOWN ii) MATERIAL : SUPERDYMA STEEL iii) ACCESSORIES : FLATWISE ELBOW, FLATWISE EQUAL TEE, FLATWISE EQUAL CROSS, RIGHTHAND REDUCER, LEFTHAND REDUCER, STRAIGHT REDUCER, EDGEWISE ELBOW LEFT, EDGEWISE ELBOW RIGHT, COUPLER AND COPPER BAR. iv) FASTENERS : TRUSS HEAD SCREW, FLAT WASHER AND HEX NUT.
Negara	MALAYSIA



Bil	MODEL	WIDTH (mm)	HEIGHT (mm)	THICKNESS (mm)	LENGTH (mm)
1	SCL/Z-(150X100) SD	150	100	2.0	2438
2	SCL/Z-(200X100) SD	200	100	2.0	2438
3	SCL/Z-(300X100) SD	300	100	2.0	2438
4	SCL/Z-(400X100) SD	400	100	2.0	2438
5	SCL/Z-(450X100) SD	450	100	2.0	2438
6	SCL/Z-(500X100) SD	500	100	2.0	2438
7	SCL/Z-(600X100) SD	600	100	2.0	2438
8	SCL/Z-(750X100) SD	750	100	2.0	2438
9	SCL/Z-(900X100) SD	900	100	2.0	2438
10	SCL/Z-(1000X100) SD	1000	100	2.0	2438



Cable Ladder System C/W Accessories – Semakan sampel



Width = 200 mm

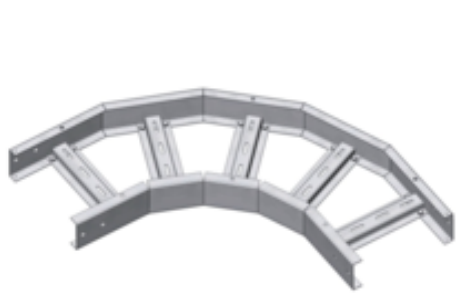


Thickness = 2.13 mm



Height = 100 mm

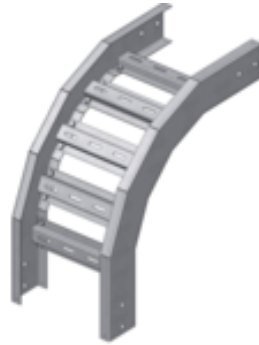
Cable Ladder System C/W Accessories – Contoh Senarai Jenis Accessories



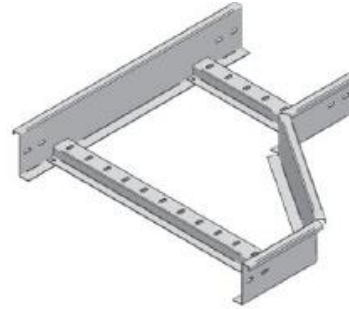
Horizontal Elbow



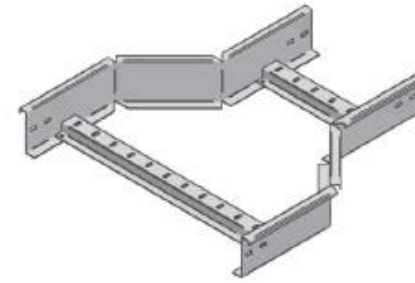
Inside Riser



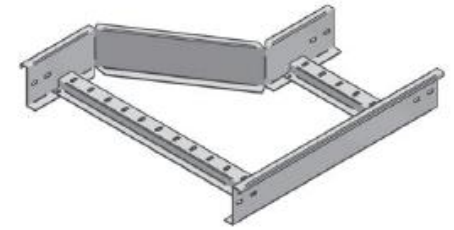
Outside Riser



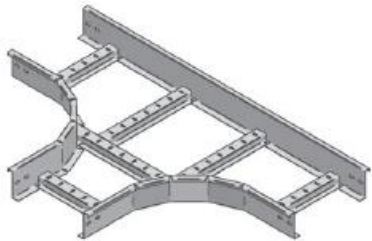
Right Reducer



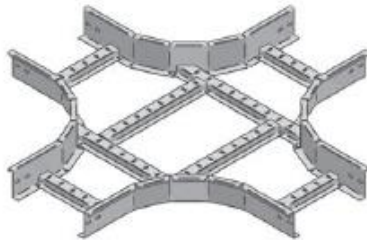
Straight Reducer



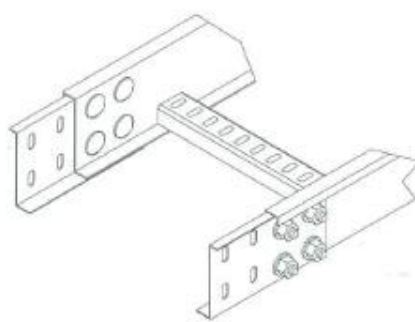
Left Reducer



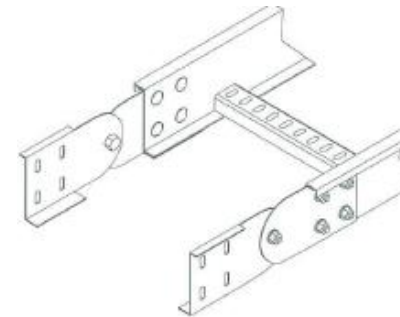
Horizontal Tee



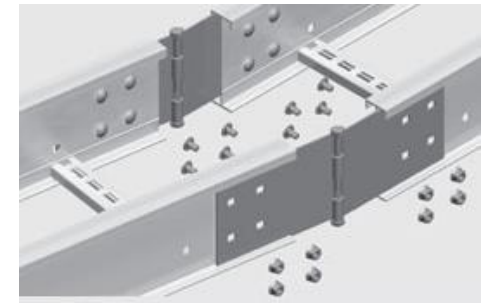
Horizontal Cross



Horizontal Splice Plate



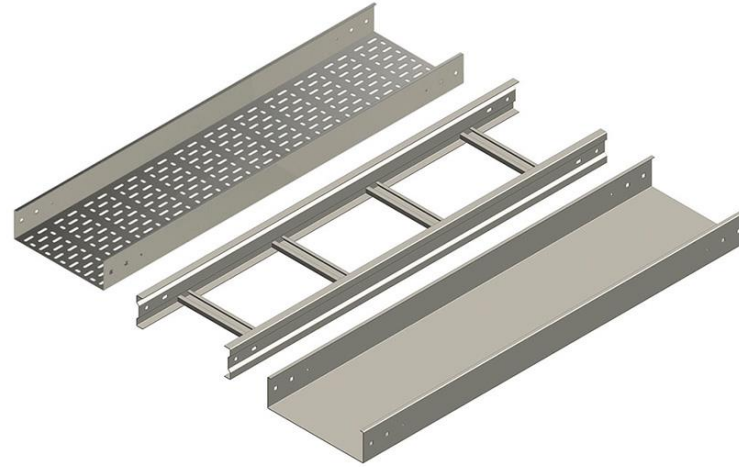
*Vertical Adjustable
Splice Plate*



*Horizontal Adjustable
Splice Plate*

Common interchangeable term:

Internal / Inside Riser	Vertical System	Edgewise
External / Outside Riser		
	Horizontal System	Flatwise



08

Jenis Steel Sheet Material Bagi Cable Trunking System, Cable Tray System and Cable Ladder System

Jenis Steel Sheet Material Bagi Cable Trunking System, Cable Tray System and Cable Ladder System



Cold Rolled Steel Sheet



Hot Rolled Steel Sheet



Electro Galvanized Steel Sheet



Hot Rolled Steel Sheet with Hot Dip Galvanized Coating



Stainless Steel Sheet
Grade SS 304



SuperDyma[®] Steel Sheet



Electro Galvanized Steel Sheet with Epoxy Powder Coating (Stove/oven-baked enamel)



Cold Rolled Steel Sheet with Epoxy Powder Coating (Stove/oven-baked enamel)

TERIMA KASIH

UNIT PENSIJILAN BAHAN DAN STANDARD (UPBS)
CAWANGAN KEJURUTERAAN ELEKTRIK
IBU PEJABAT JKR MALAYSIA

LAMAM SESAWANG: <https://jmal.jkr.gov.my/emapv3>

Sila hubungi PIC berikut untuk maklumat lanjut:

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