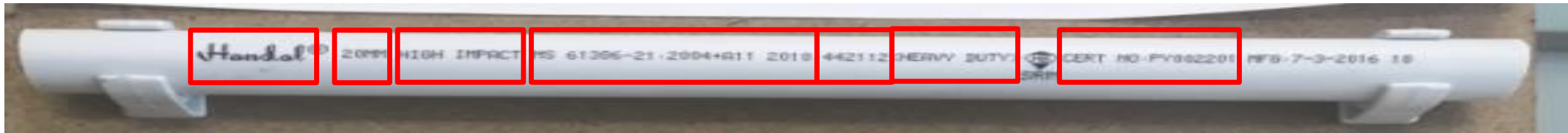


VERIFIKASI BAHAN DI TAPAK BINA

FARAH FAIZATUL NOORLIN
JURUTERA ELEKTRIK
UNIT PENSIJILAN BAHAN DAN STANDARD
CAWANGAN KEJURUTERAAN ELEKTRIK
IP JKR MALAYSIA

RIGID HIGH IMPACT PVC CONDUIT & CONDUITS FITTINGS



Penandaan yang selalu dibuat PADA UPVC CONDUIT adalah:

1. Jenama
2. Saiz – JKR requirement 20mm & 25mm
3. Jenis *conduit* – contoh :- *High Impact Heavy Duty*
4. Standard terkini
 - MS IEC 61386-1 (*General Requirements*)
 - MS 61386-21 (*Rigid conduit systems*)
 - MS IEC 60423 (*Diameter size and Threads*)
5. *Classification Code* – sekurang-nya 4 digit pertama (klausu 7.1.1)
6. Nombor Lesen Pensijilan SIRIM

Keterangan Barangan	RIGID HIGH IMPACT PVC CONDUIT & CONDUITS FITTINGS
Kod Barangan	EE011103.ME190.A204
Nama Syarikat	YIH LIAN INDUSTRIES SDN BHD
Status Syarikat	PENGILANG
Alamat	YIH LIAN INDUSTRIES SDN,BHD. NO.D144,JALAN CENDANA 4/4A,KAWASAN PERUSAHAAN CENDANA, 08000 SG PETANI KEDAH
No Telefon	04-4311313
No Fax	04-4312313
Email	-
Website	-
Jenama	HANDAL
No Laporan	PENSIJILAN SIRIM: PY002201 & PY002203 LAPORAN UJIAN : 2018EA0965 & 2018EA0840
Tarikh Tamat	15-06-2022
Rujukan	MS 61386-21:2010
Catatan	1.PENGUNAAN BAHAN INI HENDAKLAH MENGGUNAKAN "CONDUITS FITTINGS" DARI JENIS "HEAVY DUTY (HD) CLASSIFICATION CODE 4421" SAHAJA. 2.TIDAK BOLEH DIGUNAKAN BAGI PENDAWAIAN SISTEM PERLINDUNGAN KEBAKARAN.
Negara	MALAYSIA

Bil	MODEL/SAIZ	DESCRIPTION	Gambar
1	20mm (4421)	CONDUIT(WHITE)	
2	25mm (4421)	CONDUIT(WHITE)	
3	20mm & 25mm	CIRCULAR BOX 1 WAY	
4	20mm & 25mm	CIRCULAR BOX 2 WAYS	
5	20mm & 25mm	CIRCULAR BOX 3 WAYS	
6	20mm & 25mm	CIRCULAR BOX 4 WAYS	
7	20mm & 25mm	CIRCULAR BOX A2 WAYS	
8	20mm & 25mm	COUPLE/SOCKET	

RIGID HIGH IMPACT PVC CONDUIT & CONDUITS FITTINGS



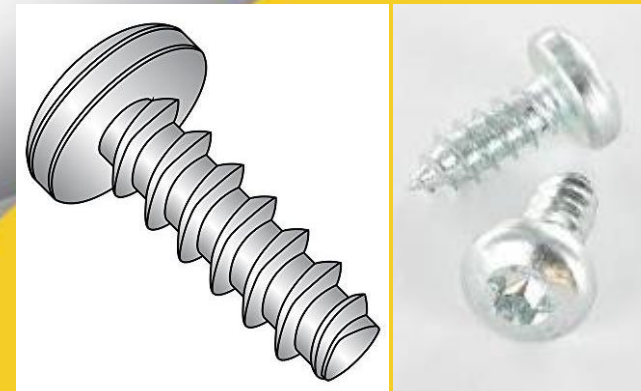
PENANDAAN YANG SELALU DIBUAT PADA UPVC FITTINGS ADALAH :

1. Jenama
2. *Classification Code* (bukan mandatori)
3. Standard
 - MS IEC 61386-1 (*General Requirements*),
 - MS 61386-21 (*Rigid conduit systems*), dan
 - MS IEC 60423 (*diameter size*)
4. Saiz hendaklah sama dengan saiz conduit – JKR requirement 20mm & 25mm

Screw fixing using Preformed threads



Screw fixing using thread-forming screws



Internally threaded rounded spacer

RIGID HIGH IMPACT PVC CONDUIT & CONDUITS 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

GALVANISED STEEL CONDUIT

KYODO PIPE 20 mm Heavy Duty MS 61386-21:2010 441611

Penandaan Yang Selalu Dibuat PADA GI CONDUIT Adalah:

1. Jenama
2. Saiz – JKR requirement 20mm & 25mm
3. Jenis conduit – contoh:- *Heavy duty*
4. Standard terkini
5. Classification Code – sekurang-nya 4 digit pertama (klausu 7.1.1)

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	-
Jenama	KYODO PIPE
No Laporan	NO.SIRIM:PC001775, L/UJIAN SIRIM:2015CB0781, 2014CB1986 & 2014EEDA0209
Tarikh Tamat	15-10-2020
Rujukan	MS IEC 61386-21:2010
Catatan	i) TYPE OF PROTECTION: CLASS 3 (MEDIUM) ii) COLOUR: ORANGE (AVAILABLE)
Negara	MALAYSIA

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

GALVANISED STEEL CONDUIT 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

CLASSIFICATION CODE (ANNEX A)

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

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

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

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

Contoh kod:

441611403410

CLASSIFICATION CODE (ANNEX A)

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

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

<i>Seventh digit – Protection against ingress of solid objects (IEC 60529 min IP3X)</i>	
<i>Protected against solid foreign objects of 2.5 mm diameter and greater</i>	<i>3</i>
<i>Protected against solid foreign objects of 1.0 mm diameter and greater</i>	<i>4</i>
<i>Dust protected</i>	<i>5</i>
<i>Dust-tight</i>	<i>6</i>

<i>Eighth digit – Protection against ingress of water (IEC 60529 min IPX0)</i>	
<i>None declared</i>	<i>0</i>
<i>Protected against vertically falling water drops</i>	<i>1</i>
<i>Protected against vertically falling water drops when the conduit system is tilted up to an angle of 15 °</i>	<i>2</i>
<i>Protected against spraying water</i>	<i>3</i>
<i>Protected against splashing water</i>	<i>4</i>
<i>Protected against water jets</i>	<i>5</i>
<i>Protected against powerful water jets</i>	<i>6</i>
<i>Protected against the effects of temporary immersion in water</i>	<i>7</i>

Contoh kod:
441611403410

CLASSIFICATION CODE (ANNEX A)

<i>Ninth digit – Resistance against corrosion (equivalent to Table 10)</i>	
<i>Low protection inside and outside</i>	<i>1</i>
<i>Medium protection inside and outside</i>	<i>2</i>
<i>Medium protection inside, high protection outside</i>	<i>3</i>
<i>High protection inside and outside</i>	<i>4</i>

<i>Eleventh digit – Resistance to flame propagation</i>	
<i>Non-flame propagating</i>	<i>1</i>
<i>Flame propagating</i>	<i>2</i>

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

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

Contoh kod:
441611403410

CABLE TRUNKING C/W ACCESSORIES



MAKLUMAT BAHAN/BARANGAN YANG DILULUSKAN

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	PENSIJILAN SIRIM : PC004005; LAPORAN UJIAN SIRIM : 2018EA1232
Tarikh Tamat	15-06-2021
Rujukan	MS IEC 61084-1 : 2006 & IEC 1084-1 : 1996
Catatan	i) MATERIAL : COLD ROLLED STEEL FINISHED WITH HOT-DIP GALVANIZED. ii) ACCESSORIES: FLATWISE CROSS, FLATWISE TEE, FLATWISE ELBOW, INTERNAL RISER, EXTERNAL RISER, COPPER-LINK & STAINLESS STEEL BOLT & NUTS.
Negara	MALAYSIA

Bil	Model	Width (mm)	Height (mm)	Thickness (mm)	Length (mm)	Gambar
1	MT-CEE 021 -10	50	25	1.0	2440	
2	MT-CEE 022 -10	50	50	1.0	2440	
3	MT-CEE 032 -12	75	50	1.2	2440	
4	MT-CEE 044 -12	100	100	1.2	2440	
5	MT-CEE 062 -16	150	50	1.6	2440	
6	MT-CEE 084 -16	200	100	1.6	2440	



CABLE TRAY C/W ACCESSORIES



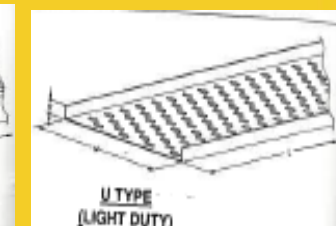
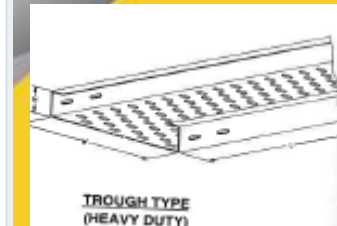
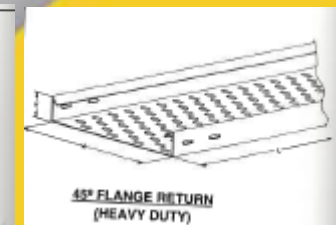
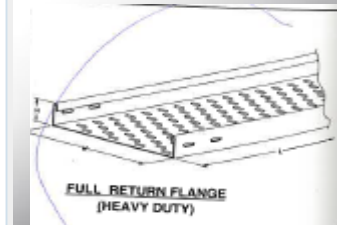
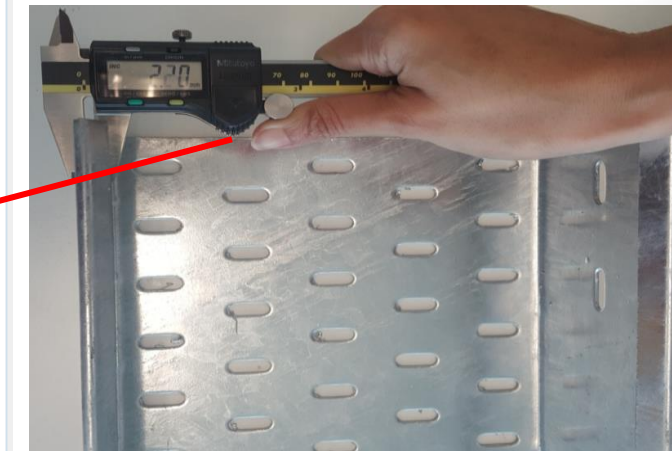
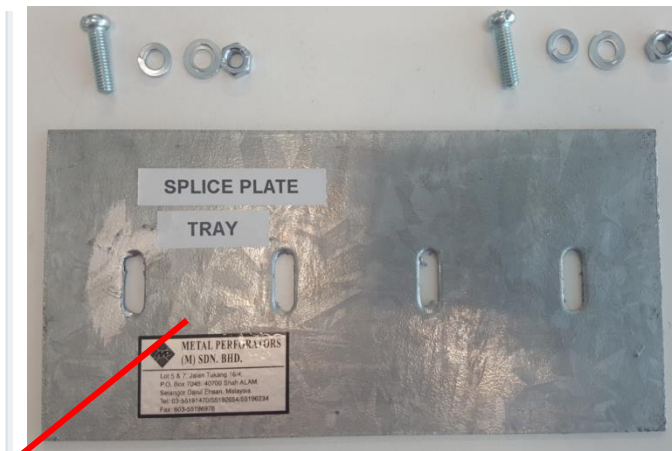
Jenama



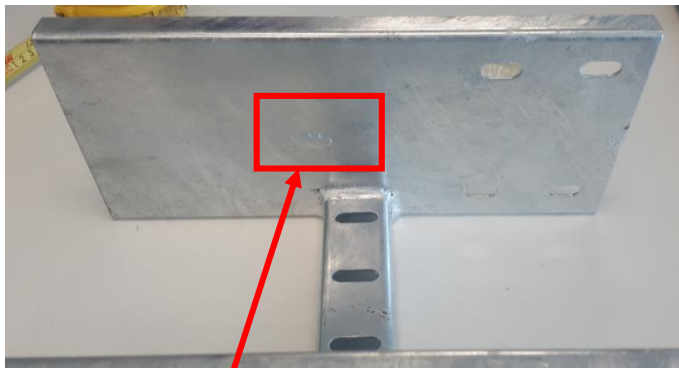
MAKLUMAT BAHAN/BARANGAN YANG DILULUSKAN

Keterangan Barangan	CABLE TRAY C/W ACCESSORIES
Kod Barangan	EE011202.ME583.A540
Nama Syarikat	METAL PERFORATORS (M) SDN. BHD.
Status Syarikat	PENGILANG
Alamat	LOT 5&7, JALAN TUKANG 16/4, P.O. BOX 7045, 40000 SHAH ALAM SELANGOR
No Telefon	0355191470
No Fax	0355196978
Email	mpm@metalperforators.com.my
Website	www.metalperforators.com.my
Jenama	MP
No Laporan	PENSIJILAN SIRIM : PC003928 LAPORAN UJIAN : 2018MA0692 & 2018MA0692-A1
Tarikh Tamat	15-10-2021
Rujukan	MS IEC 61537:2007
Catatan	i) MODEL : FULL RETURN FLANGE ii) MATERIAL : PERFORATED HOT DIPPED GALVANIZED SHEET STEEL iii) FASTENERS BOLT : PEN HEAD BOLT FULL SET FOR SPLICE PLATE, HEX BOLT & NUT iv) ACCESSORIES : 90° HORIZONTAL ELBOW, HORIZONTAL TEE, HORIZONTAL CROSS, VERTICAL INSIDE RISER (90°), VERTICAL OUTSIDE RISER (90°), STRAIGHT/OFFSET REDUCER, RIGHT/LEFT REDUCER & SPLICE PLATE
Negara	MALAYSIA

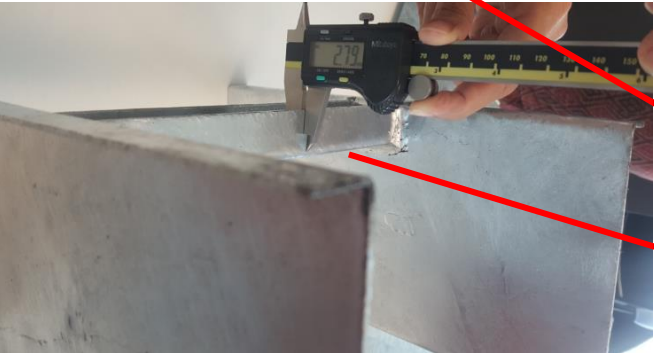
Bil	WIDTH, W (mm)	HEIGHT, H (mm)	THICKNESS, t (mm)	LENGTH, l (mm)	Gambar
1	100	100	2.0	3000	
2	150	100	2.0	3000	
3	200	100	2.0	3000	
4	250	100	2.0	3000	
5	300	100	2.0	3000	
6	350	100	2.0	3000	
7	400	100	2.0	3000	
8	450	100	2.0	3000	
9	500	100	2.0	3000	
10	550	100	2.0	3000	
11	600	100	2.0	3000	
12	650	100	2.0	3000	
13	700	100	2.0	3000	
14	750	100	2.0	3000	
15	800	100	2.0	3000	
16	850	100	2.0	3000	
17	900	100	2.0	3000	



CABLE LADDER C/W ACCESSORIES



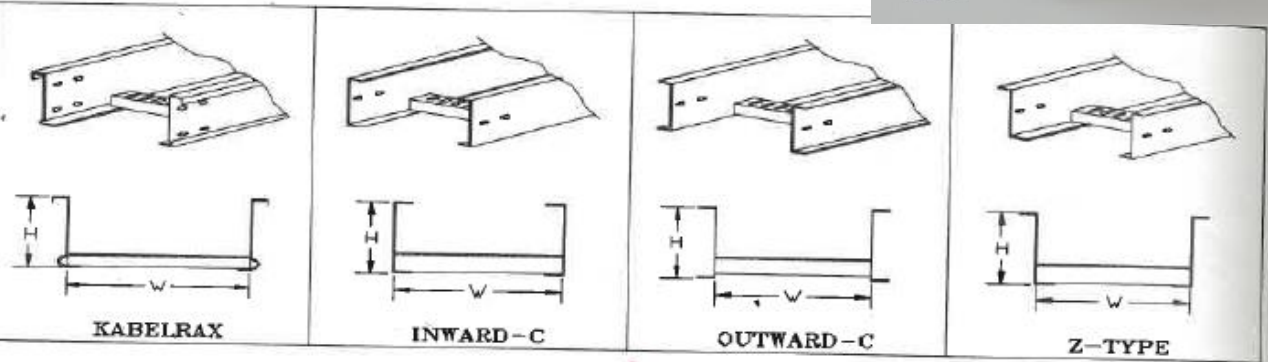
Jenama



MAKLUMAT BAHAN/BARANGAN YANG DILULUSKAN

Keterangan Barangan	CABLE LADDER C/W ACCESSORIES
Kod Barangan	EE011204.ME583.A540
Nama Syarikat	METAL PERFORATORS (M) SDN. BHD.
Status Syarikat	PENGILANG
Alamat	LOT 5&7, JALAN TUKANG 16/4, P.O. BOX 7045, 40000 SHAH ALAM SELANGOR
No Telefon	0355191470
No Fax	0355196978
Email	mpm@metalperforators.com.my
Website	www.metalperforators.com.my
Jenama	MP
No Laporan	PENSIJILAN SIRIM : PC003961 LAPORAN UJIAN : 2018MA0691 & 2018MA0691-A1
Tarikh Tamat	15-10-2021
Rujukan	MS IEC 61537:2007
Catatan	i) MODEL : OUTWARD C ii) MATERIAL : HOT DIPPED GALVANIZED SHEET STEEL iii) FASTENERS BOLT : HEX BOLT, CARRIAGE BOLT, NUT & FLAT WASHER iv) ACCESSORIES : HORIZONTAL ELBOW, HORIZONTAL EQUAL TEE, HORIZONTAL UNEQUAL TEE, HORIZONTAL EQUAL CROSS, INTERNAL VERTICAL RISER, EXTERNAL VERTICAL RISER, STRAIGHT/OFFSET REDUCER, RIGHT/LEFT OFFSET REDUCER, SPLICE PLATE & HOLD DOWN CLAMP
Negara	MALAYSIA

Bil	WIDTH, W (mm)	HEIGHT, H (mm)	THICKNESS, t (mm)	LENGTH, l (mm)	Gambar
1	100	100	2.0	3000	
2	150	100	2.0	3000	
3	200	100	2.0	3000	
4	250	100	2.0	3000	
5	300	100	2.0	3000	
6	350	100	2.0	3000	
7	400	100	2.0	3000	
8	450	100	2.0	3000	
9	500	100	2.0	3000	
10	550	100	2.0	3000	
11	600	100	2.0	3000	
12	650	100	2.0	3000	
13	700	100	2.0	3000	
14	750	100	2.0	3000	
15	800	100	2.0	3000	
16	850	100	2.0	3000	
17	900	100	2.0	3000	



SWITCHES

- Status Barang :
MANDATORI

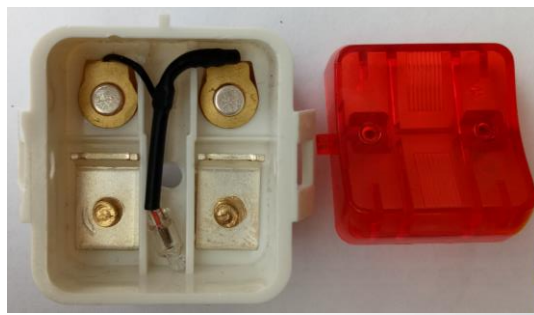
Keterangan Barangan	SWITCHES
Kod Barangan	EE011301.ME47.A105
Nama Syarikat	IEM MANUFACTURING SDN.BHD
Status Syarikat	PENGILANG
Alamat	46, JALAN SAMUDRA BARAT 2, SAMUDRA INDUSTRIAL PARK, 68100 BATU CAVES SELANGOR
No Telefon	0361856068
No Fax	03-61856018
Email	yphsama@yahoo.com
Website	www.IEMmanufacturing.com
Jenama	IEM
No Laporan	PERAKUAN ST: SJT161307085642017 & SJT161307085922017 PENSIJILAN SIRIM: PI013902 LAPORAN UJIAN SIRIM: 2016EEA0643, 2016EEA0643-V1, 2016EEA0249 & 2016EEA0249-V1
Tarikh Tamat	15-02-2020
Rujukan	MS IEC 60669-1:2004
Catatan	i) MATERIAL FOR TERMINAL AND EARTHING SCREW IS BRASS ii) COLOUR: WHITE
Negara	MALAYSIA

Bil	MODEL	RATED CURRENT(AX)	CLASSIFICATION	RATED VOLTAGE (V) & FREQUENCY (Hz)	Column Name	Column Name	Gambar
1	EM611	10AX	1 Gang 1 Way Flush Mounting	250V & 50Hz			
2	EM621	10AX	2 Gang 1 Way Flush Mounting	250V & 50Hz			
3	EM631	10AX	3 Gang 1 Way Flush Mounting	250V & 50Hz			
4	EM641	10AX	4 Gang 1 Way Flush Mounting	250V & 50Hz			
5	EM612	10AX	1 Gang 1 Way Flush Mounting	250V & 50Hz			

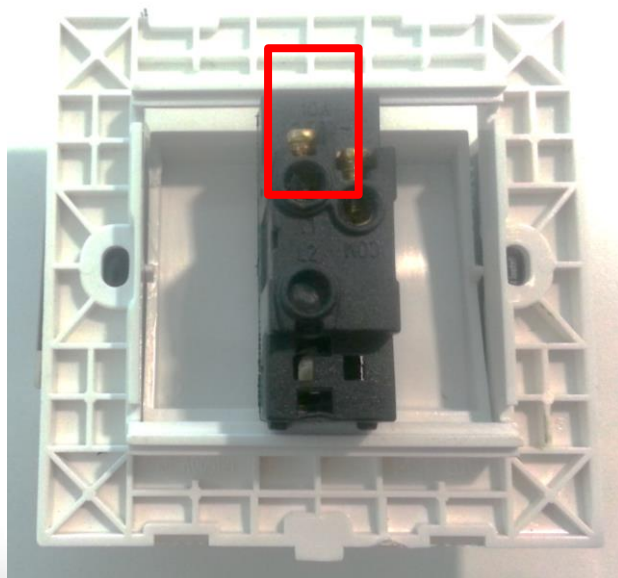
earth terminal



permanently terminated



SWITCHES (BIG ROCKER)

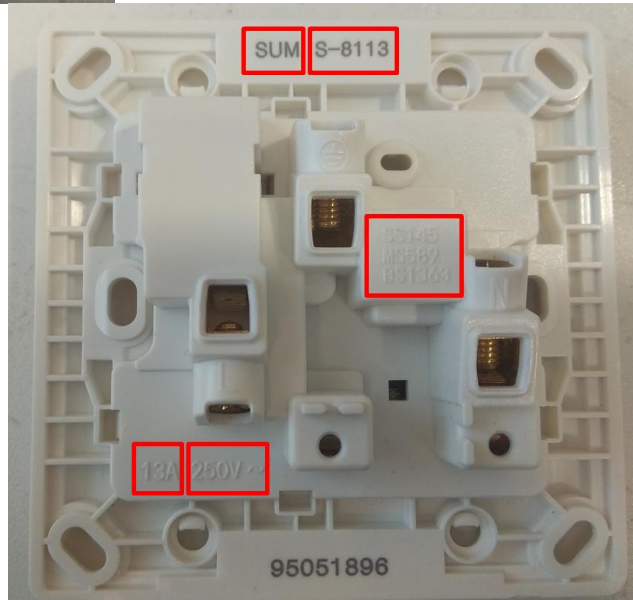
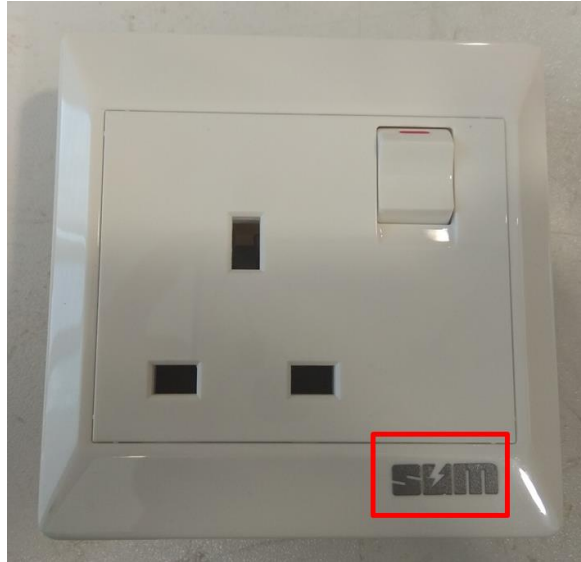


MAKLUMAT BAHAN/BARANGAN YANG DILULUSKAN

Keterangan Barangan	SWITCHES (BIG ROCKER)
Kod Barangan	EE0113003.ME445.A384
Nama Syarikat	SUM ELECTRICAL (M) SDN. BHD.
Status Syarikat	PENGILANG
Alamat	NO.7, JALAN SRI PLENTONG 6, KAWASAN PERINDUSTRIAN SRI PLENTONG, 81750 MASAI JOHOR
No Telefon	073873744
No Fax	073871166
Email	sum@sumelectrical.com
Website	www.sumelectrical.com
Jenama	SUM
No Laporan	PENSIJILAN SIRIM:PS102605; PERAKUAN ST:SJT161310136942017; LAPORAN UJIAN SIRIM:2016EEA0785+V1+V2
Tarikh Tamat	15-06-2021
Rujukan	MS IEC 60669-1:2012
Catatan	i) MATERIAL FOR TERMINAL AND EARTHING SCREW IS BRASS; ii) COLOUR: WHITE
Negara	MALAYSIA

B	Model	RATED VOLTAGE (V) & FREQUENCY (Hz)	CLASSIFICATION	RATED CURRENT (A)	Gambar
1	FS-112	250V & 50Hz	1 GANG 1 WAY FLUSH MOUNTING SWITCH	10AX	
2	FS-212	250V & 50Hz	2 GANG 1 WAY FLUSH MOUNTING SWITCH	10AX	
3	FS-312	250V & 50Hz	3 GANG 1 WAY FLUSH MOUNTING SWITCH	10AX	
4	FS-412	250V & 50Hz	TWIN 4 GANG (1+3) 1 WAY FLUSH MOUNTING SWITCH	10AX	
5	FS-123	250V & 50Hz	1 GANG 2 WAYS FLUSH MOUNTING SWITCH	10AX	
6	FS-223	250V & 50Hz	2 GANG 2 WAYS FLUSH MOUNTING SWITCH	10AX	
7	FS-323	250V & 50Hz	3 GANG 2 WAYS FLUSH MOUNTING SWITCH	10AX	
8	FS-112X2	250V & 50Hz	TWIN 2 GANG (1+1) 1 WAY FLUSH MOUNTING SWITCH	10AX	

SOCKET OUTLETS

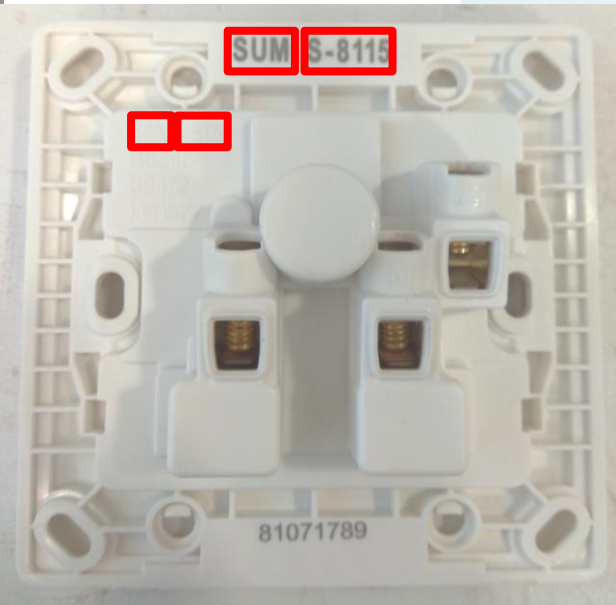


MAKLUMAT BAHAN/BARANGAN YANG DILULUSKAN

Keterangan Barangan	SOCKET OUTLETS
Kod Barangan	EE0117102.ME556.A384
Nama Syarikat	SUM MFG (M) SDN.BHD.
Status Syarikat	PENGILANG
Alamat	NO.7, JALAN SRI PLENTONG 6, KAWASAN PERINDUSTRIAN SRI PLENTONG, 81750 MASAI JOHOR
No Telefon	073873744
No Fax	073871166
Email	marketing@sumelectrical.com
Website	www.sumelectrical.com
Jenama	SUM
No Laporan	SIJIL SIRIM: PC003552; PERAKUAN ST: SJT161302021812020; LAPORAN UJIAN SIRIM: 2018EEA0007, 2019EA0111, 2019EA1422;
Tarikh Tamat	15-06-2021
Rujukan	MS 589-2:2011, BS 1363-2:1995+A4:2012, SS 145 PART 2:2010
Catatan	MATERIAL FOR TERMINAL AND EARTHING SCREW IS BRASS
Negara	

Bil	Model	KADARAN ARUS (A)	KADARAN VOLTAN (V)	KETERANGAN	Gambar
1	S-8113	13A	250V	1 Gang Flush Mounting Switched Socket Outlet	

SOCKET OUTLETS



MAKLUMAT BAHAN/BARANGAN YANG DILULUSKAN

Keterangan Barangan	SOCKET OUTLETS
Kod Barangan	EE0117102.ME556.A384
Nama Syarikat	SUM MFG (M) SDN.BHD.
Status Syarikat	PENGILANG
Alamat	NO.7, JALAN SRI PLENTONG 6, KAWASAN PERINDUSTRIAN SRI PLENTONG, 81750 MASAI JOHOR
No Telefon	073873744
No Fax	073871166
Email	marketing@sumelectrical.com
Website	www.sumelectrical.com
Jenama	SUM
No Laporan	SIRIL SIRIM : PC004067 PERAKUAN ST : SJT161302021722020 LAPORAN UJIAN SIRIM : 2017EEA0864, 2019EA1437
Tarikh Tamat	15-06-2022
Rujukan	MS 1577:2003
Catatan	MATERIAL FOR TERMINAL AND EARTHING SCREW IS BRASS
Negara	

Bil	Model	KADARAN ARUS	KADARAN VOLTAN	KETERANGAN	Gambar
1	S-8115	15A	250V	1 Gang Flush Mounting Unswitched Socket Outlet	

FLUORESCENT LUMINAIRES

No	Kod Barang	Nama Barang	Status Barang	
1	EE011501	LAMP HOLDER FOR FLUORESCENT LUMINAIRES	MANDATORI	🔗
2	EE011502	LAMP HOLDER FOR FLOURESCENT LUMINAIRES (T5)	TAMBAHAN	🔗
3	EE011503	LAMP HOLDER FOR COMPACT FLUORESCENT LAMPS	MANDATORI	🔗
4	EE021001	BALLAST FOR COMPACT FLUORESCENT LAMPS	MANDATORI	🔗
5	EE021002	BALLAST FOR FLUORESCENT LUMINAIRES	MANDATORI	🔗
6	EE021102	ELECTRONIC BALLAST FOR FLUORESCENT LUMINAIRES (T5)	TAMBAHAN	🔗
7	EE021301	CAPACITOR FOR FLUORESCENT LUMINAIRES	MANDATORI	🔗
8	EE021601	FLUORESCENT LUMINAIRES	MANDATORI	🔗
9	EE0216010	FLUORESCENT LUMINAIRES (ANTI CORROSIVE)(T5)	TAMBAHAN	🔗
10	EE0216011	FLOURESCENT LUMINAIRES (DOWNLIGHT)	TAMBAHAN	🔗
11	EE0216013	FLUORESCENT LUMINAIRES (WEATHERPROOF) (T5)	TAMBAHAN	🔗
12	EE0216014	FLUORESCENT LUMINAIRES (WEATHERPROOF) (T8)	MANDATORI	🔗
13	EE0216015	FLUORESCENT LUMINAIRES (CLEAN ROOM)(T5)	TAMBAHAN	🔗
14	EE021602	FLUORESCENT LUMINAIRES(CUT OFF ANGLE)	MANDATORI	🔗
15	EE021603	FLUORESCENT LUMINAIRES (ANTI CORROSIVE)	MANDATORI	🔗
16	EE021604	FLUORESCENT LUMINAIRES (PRISON LUMINAIRE)	MANDATORI	🔗
17	EE021606	FLUORESCENT LUMINAIRES (CUT OFF ANGLE)(T5)	TAMBAHAN	🔗
18	EE021608	FLUORESCENT LUMINAIRES (T5)	TAMBAHAN	🔗

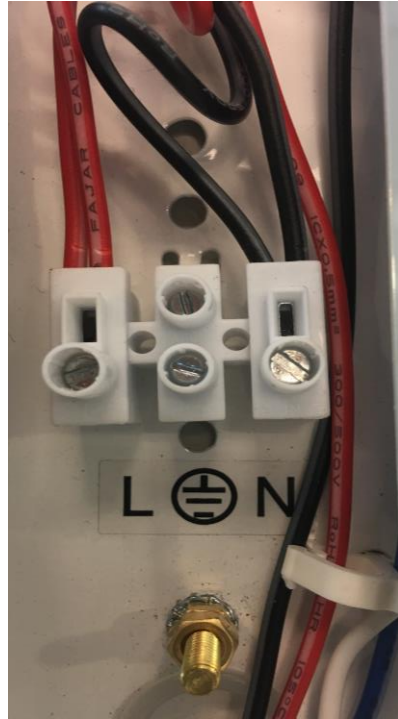


FLUORESCENT LUMINAIRES



Klausa 11.1.1.3 L-S1

Mild Steel Sheet of
min thickness
0.50mm

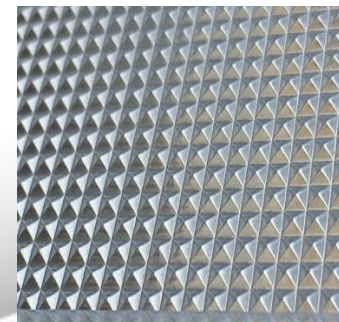


Klausa 11.1.1.4 L-S1

- Heat resistant cable marked with “HR 105°C”
- Holder to hold the cable and to avoid contact with heat producing components
- termination block marked “L” and “N”
- brass direct pressure type earth terminal



Klausa 11.1.1. (a).x L-S1
DIFFUSSER – prismatic
and opal type



Klausa 11.1.1.(b).iv L-S1

LOUVRES AND REFLECTORS
– high purity anodized aluminium
(99.85% pure aluminium)

- with no iridescent mirror finished
- min thickness 0.40mm
- min total light reflection 90%

FLUORESCENT LUMINAIRES (T8)

Keterangan Barangan	FLUORESCENT LUMINAIRES
Kod Barangan	EE021601.ME181.A88
Nama Syarikat	Mighty Synergy Industries Sdn.Bhd.
Status Syarikat	PENGILANG
Alamat	No. 16, Lorong Industri 15 Taman Bukit Panchor 14300 Nibong Tebal PULAU PINANG
No Telefon	04-5931818
No Fax	04-5931919
Email	msi@msi.com.my
Website	www.msi.com.my
Jenama	MSI
No Laporan	i) LESEN PENSIJILAN SIRIM : PM019102 & PM019104 ii) NO. PERAKUAN ST: SJT161311160592019 & SJT161311160612019 iii) LAPORAN UJIAN SIRIM : 2017PBE0124, 2017PBE0124-S1, 2017PBE0124-S2, 2017PBE0125, 2017PBE0125-S1, 2020PB0023 & 2020PB0024
Tarikh Tamat	15-02-2022
Rujukan	MS IEC 60598-1:2012, MS IEC 60598-2-1:1997 & MS IEC 60598-2-2:1998
Catatan	i) BALLAST : NEWTON - GE 18/20W ELL & GE 36/40W ELL ii) CAPACITOR : EASTERN - ELR 250400, ELR 250800 & ELR 251200 iii) LAMPHOLDER : YLI- FLH 801 iv) JENIS DIFFUSER : UV-STABILISED FLAME RETARDANT ACRYLIC PANEL (PETG)
Negara	MALAYSIA

IMPORTANT!!

1. [How to check DIFFUSER??](#)
2. [Garis Panduan Bahan: Panduan Menyemak Capacitor For Fluorescent Luminaires](#)



Bil	MODEL	KADARAN WATT	JENIS	Gambar
1	MCF 120	1 x 18W	Surface Mounted Bare Channel	
2	MCF 140	1 x 36W	Surface Mounted Bare Channel	
3	MCF 240	2 x 36W	Surface Mounted Bare Channel	
4	MCD 120	1 x 18W	Surface Mounted Channel c/w Diakon Diffuser	
5	MCD 140	1 x 36W	Surface Mounted Channel c/w Diakon Diffuser	
6	MCD 240	2 x 36W	Surface Mounted Channel c/w Diakon Diffuser	
7	MWG 120	1 x 18W	Surface Mounted Channel c/w Wire Guard	
8	MWG 140	1 x 36W	Surface Mounted Channel c/w Wire Guard	
9	MWG 240	2 x 36W	Surface Mounted Channel c/w Wire Guard	
10	MSM 22-220	2 x 18W	Surface Mounted Luminaires c/w Aluminium Mirror Reflector & Louvres	
11	MSM 14-240	2 x 36W	Surface Mounted Luminaires c/w Aluminium Mirror Reflector & Louvres	
12	MSM 24-240	2 x 36W	Surface Mounted Luminaires c/w Aluminium Mirror Reflector & Louvres	
13	MSM 24-340	3 x 36W	Surface Mounted Luminaires c/w Aluminium Mirror Reflector & Louvres	
14	MWM 22-220	2 x 18W	Recessed Mounted Luminaires c/w Aluminium Mirror Reflector & Louvres (Plaster Ceiling)	
15	MWM 24-240	2 x 36W	Recessed Mounted Luminaires c/w Aluminium Mirror Reflector & Louvres (Plaster Ceiling)	
16	MRM 22-220	2 x 18W	Recessed Mounted Luminaires c/w Prismatic Diffuser (Tee Bar Ceiling)	
17	MRM 14-240	2 x 36W	Recessed Mounted Luminaires c/w Aluminium Mirror Reflector & Louvres (Tee Bar Ceiling)	
18	MRM 24-240	2 x 36W	Recessed Mounted Luminaires c/w Aluminium Mirror Reflector & Louvres (Tee Bar Ceiling)	
19	MRM 24-340	3 x 36W	Recessed Mounted Luminaires c/w Aluminium Mirror Reflector & Louvres (Tee Bar Ceiling)	

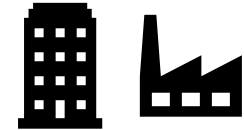
FLUORESCENT LUMINAIRES (T5)



Keterangan Barangan	FLUORESCENT LUMINAIRES (T5)
Kod Barangan	EE021608.ME181.A88
Nama Syarikat	Mighty Synergy Industries Sdn.Bhd.
Status Syarikat	PENGILANG
Alamat	No. 16, Lorong Industri 15 Taman Bukit Panchor 14300 Nibong Tebal PULAU PINANG
No Telefon	04-5931818
No Fax	04-5931919
Email	msi@msi.com.my
Website	www.msi.com.my
Jenama	MSI
No Laporan	PENSIJILAN SIRIM : PM019104 PERAKUAN ST: SJT161305057212020 LAPORAN UJIAN : 2017EEB0276 & 2020PB0006
Tarikh Tamat	15-06-2022
Rujukan	MS IEC 60598-1-2012 MS IEC60598-2-2-1998 & CIE 121-1996
Catatan	i) Reflector : ALANOD 351G ii) Electronic Ballast : OSRAM = QT FIT 5 1X14-35 & QT FIT 5 2X14-35, PHILIPS - HF-S 214-28 TL5 II & HF-S 114-35 TL5 II iii) Lamp Holder : YLI = 502 & 505-S
Negara	MALAYSIA

IMPORTANT!!

- [Garis Panduan Bahan:Panduan Penggunaan Fluorescent Luminaires Jenis T5](#)
- [How to check REFLECTOR??](#)
- How to check LOR??



Bil	Model	KADARAN WATT (W)	LIGHT OUTPUT RATIO (%)	JENIS	Gambar
1	MRM 22-2X14W	2 X 14W	90.10	Recessed Mounted Channel c/w Aluminium Reflector And Lourve	
2	MRM 14-2X28W	2 X 28W	86.44	Recessed Mounted Channel c/w Aluminium Reflector And Lourve	
3	MRM 24-2X28W	2 X 28W	87.00	Recessed Mounted Channel c/w Aluminium Reflector And Lourve	
4	MRM 24-3X28W	3 X 28W	85.10	Recessed Mounted Channel c/w Aluminium Reflector And Lourve	

FLUORESCENT LUMINAIRES (DOWNLIGHT)

IMPORTANT!!

- [Garis Panduan Bahan: Panduan Menyemak Fluorescent Luminaire Jenis Downlight](#)



CEILING FANS



Safety switch

MAKLUMAT BAHAN/BARANGAN YANG DILULUSKAN

Keterangan Barangan	CEILING FAN
Kod Barangan	EE021801.ME487.A433
Nama Syarikat	MITSUBISHI ELECTRIC (MALAYSIA) SDN. BHD.
Status Syarikat	PENGILANG
Alamat	PLO 32, KAWASAN PERINDUSTRIAN SENAI II, 81400 SENAI JOHOR
No Telefon	075996060
No Fax	07-599 6078
Email	MEM_general@mem.meap.com
Website	-
Jenama	MITSUBISHI ELECTRIC
No Laporan	PENSIJILAN SIRIM : PC003296; PERAKUAN ST : SJT161307095652019; SIJIL UJIAN CB (TUV) : JPTUV-075449, JPTUV-075449-M1, JPTUV-075449-M1/A1 & JPTUV-075449-M2/A1; LAPORAN UJIAN TUV : 50043943 001, 50043943 002, 50043943 003 & 50043943 004; LAPORAN UJIAN SIRIM : 2017EEA0671, 2017EEA0671-M1, 2018EA0822, 2017EEA0670, 2017EEA0670-M1, 2017EEA0670-S1 & 2018EA0821
Tarikh Tamat	15-10-2023
Rujukan	IEC 60335-1:2010 (ED.5) + Corr.1:2010 + Corr.2:2011 + A1:2013, IEC 60335-2-80:2015 (ED.3), MS 1597-PART 2-80:2010, MS 1220:2010 & MS 2574:2014
Catatan	i. JENIS PRE-ASSEMBLED WITH SAFETY SWITCH ii. MEPS's VALUE = 5 STAR
Negara	MALAYSIA

Bil	Model	KADARAN WATT (W)	KADARAN VOLTAN (V) & FREKUENSI (Hz)	AIR DELIVERY	CO-EFFICIENT OF PERFORMANCE (COP)	Gambar
1	C60-GY-P	54-63W	220-240V & 50Hz	244.182 m3/min	3.87 m3/min/Watt	

CEILING FANS

PREASSEMBLED DOWN ROD

Klaus 22, MS 1597-2-80:2010, Construction

Klaus 22.103 – Ceiling fan shall have either one of the following safety features:

- a) The device, which disconnect the power supply before a primary suspension system break which may occur due to the vibration after a long-time use
- OR
- b) Down rod assembly pre-assembled to the fan motor, to avoid any installation fault on site.

For double safety protection of pre-assembled motor, ceiling fan shall use minimum 2 pieces of Intended Hexagon Washer head screw/bolt with unslotted drive for securing down rod to motor. The hardness of bolt shall be not less than that of the motor shaft or the down rod. The thickness of down rod shall be minimum 1.5mm.

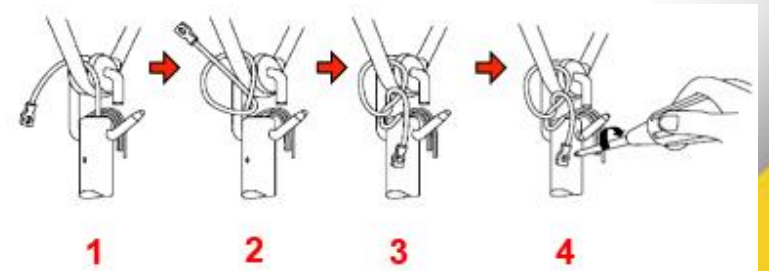
Klaus 13.1.5 L-S1

Standard rod ceiling fans shall be preassembled in the manufacturer's factory.



HOW TO INSTALL SAFETY WIRE ROPE??

Please refer Instruction Manual ☺



CEILING FANS

HOW TO CAPACITOR??

Capacitor class of operation untuk motor Ceiling Fan

- IEC 60252-1 (Klausa 8 – Marking , seksyen n – class of operation **or** life duration. To be positioned adjacent to the voltage)

Class of Operation



Life Duration



Operating classes and climatic categories IEC/EN 60252

Operating classes of capacitors for single phase motors are identified as follows:

a) Life expectancy

	30.000 h class A	10.000 h class B	3.000 h class C	1.000 h class D
failure % max	3%	3%	3%	3%

b) Climatic category

25	/	85	/	21
min. permissible temperature		max. permissible temperature		damp heat days

c) Class of safety protection

P0	No safety protection
P1	Safety achievable by external means (fuse)
P2	With internal safety protect

**SEKIAN
TERIMA KASIH**