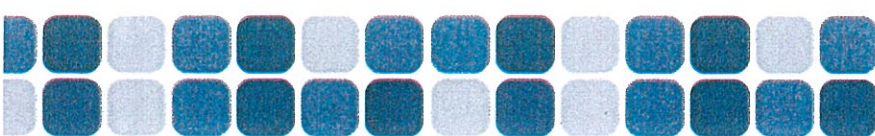


TIC ENGINEERING



TIC
Cable Tray System
Standard Quality

Company Profile



ADDRESS

99/9 MOO12, PHUTTAMONTHON 5 ROAD,
RAIKING, SAMPRAN, NAKORNPRATHOM
73210

TELEPHONE NUMBER

02-813-6951-60

FACSIMILE NUMBER

02-811-7860 OR Ext.133

ESTABLISHED YEAR

JANUARY 1996

CAPITAL REGISTER

10,000,000 BAHT

TIC FACTORY

PLANT AREA

5,500 m²

OFFICE AREA

800 m²

TIC ENGINEERING CO,LTD is the specialize in design and manufacture cable tray systems in the name of TIC products since 1996.

Our present product ranges are as follows:

- STEEL CABLE LADDER
- STEEL CABLE TRAY
- STEEL WIREWAY
- STEEL CABLE TRUNKING
- STEEL PULL BOX
- STEEL JUNCTION BOX

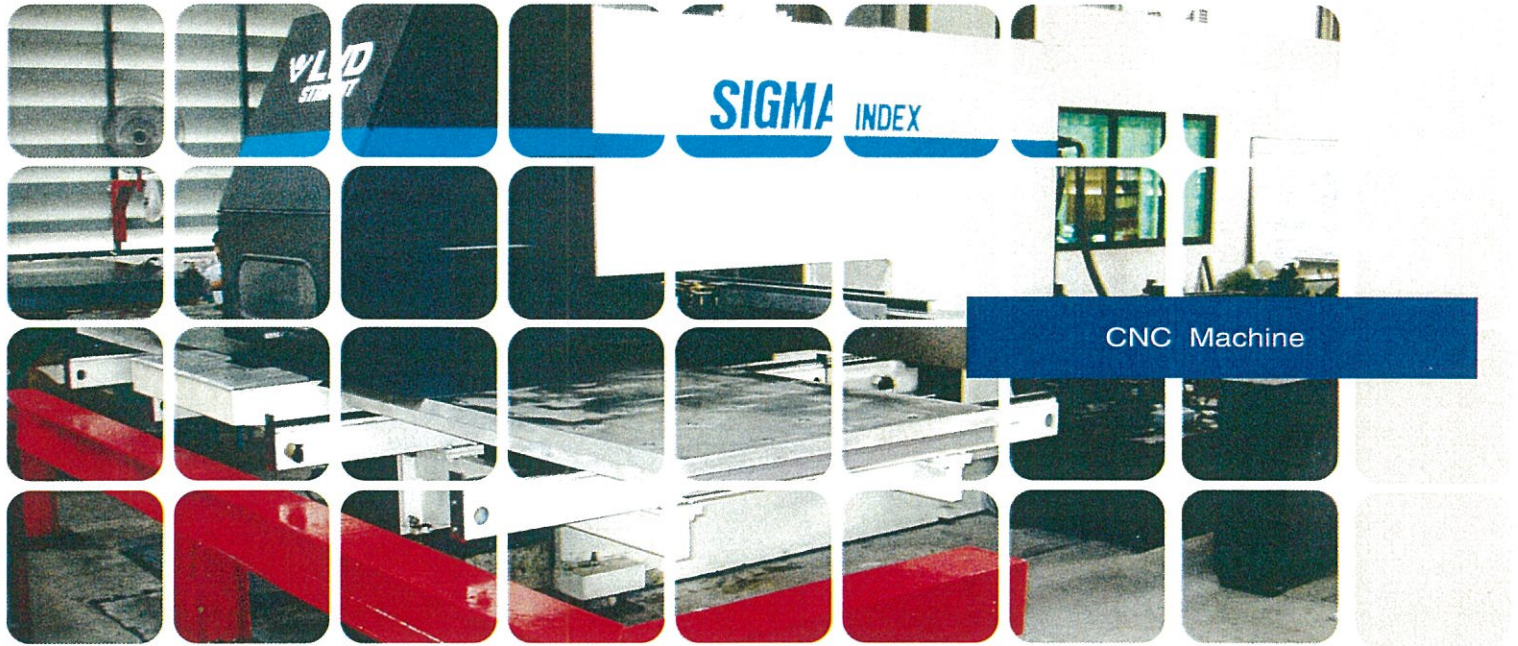
Our management are dynamic and experience person. All of our staffs are carried our company working philosophy " customers should deserve our best" which come from our team work, dedicate and enduring spirit that has brought us to where we are today.

STANDARD

- BS EN
- ASTM
- E.I.T
- NEMA VE1
- ISO 9001 : 2008

TIC GROUP

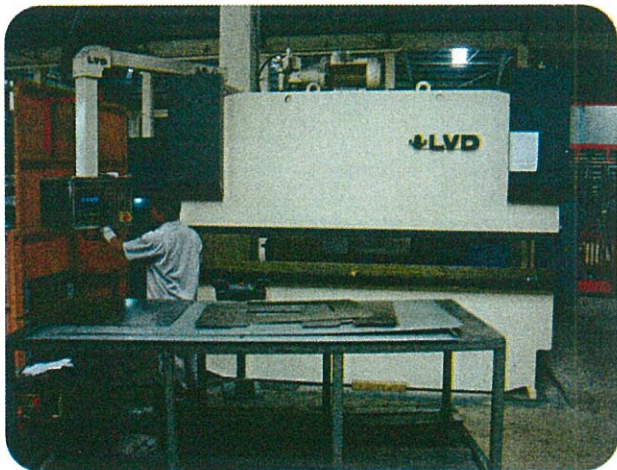
Our Factory



Bending Machine

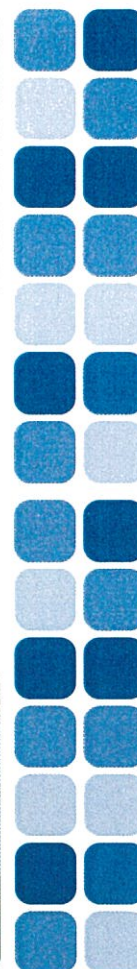
Workshop facilities are modern and highly automated, using machines of the CNC and MNC types, this guarantee precision, reliability to materials of various types and thicknesses.

Our cable tray system are constructed of BS standard sheet steel for all other compoments. Surface are EPOXY/POLYESTER POWDER PAINTED for protection against corrosion.



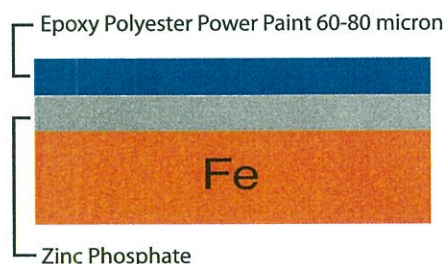
Shearing Machine

Automatic Electrostatic Powder Paint

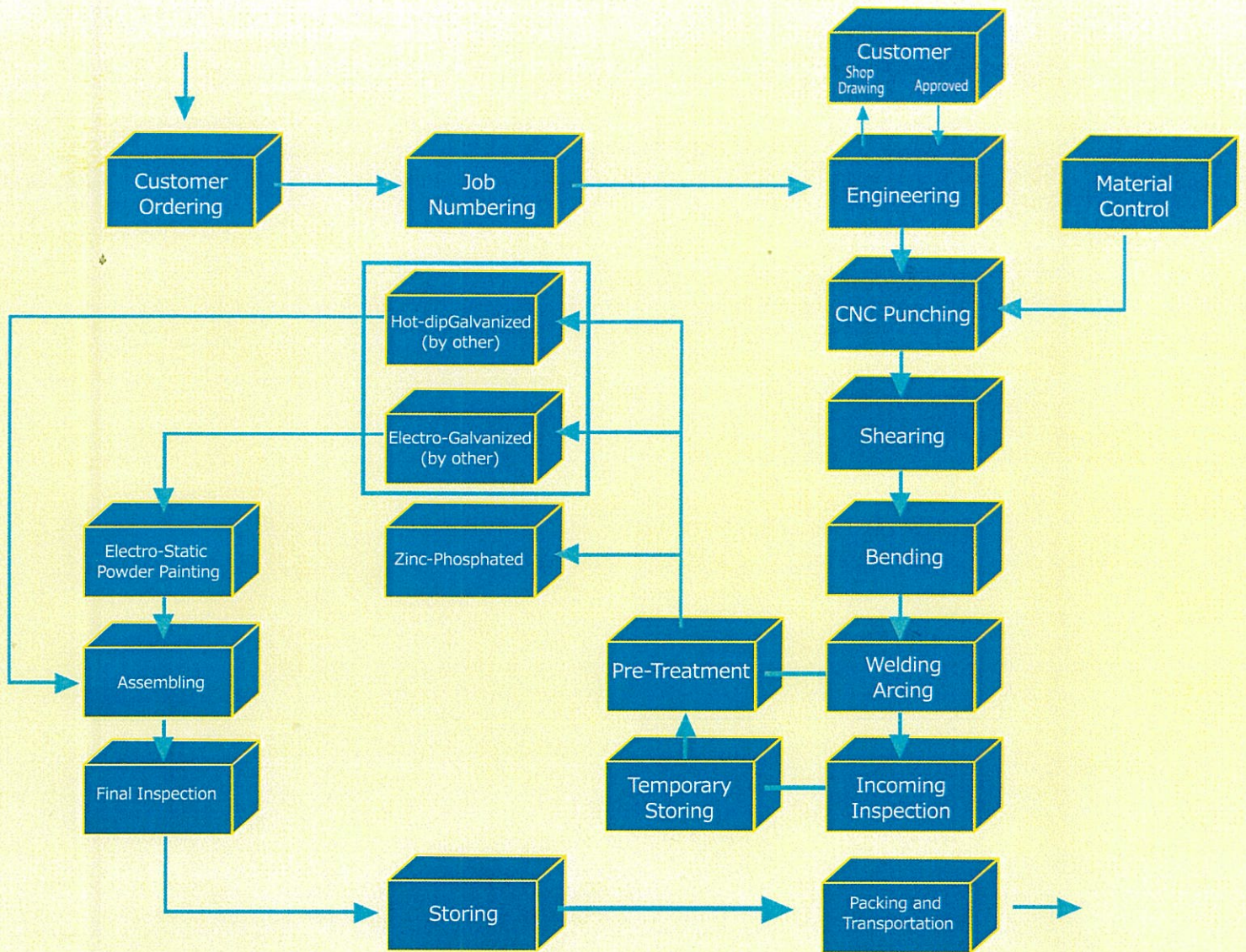


EPOXY POLYESTER POWDER COATING is a thermosetting powder coating based on epoxy and polyester resin (hybrid system) offering many gloss levels (5-100%), good flow, good over-bake resistance, good resistance to water and detergents and ultra-violet resistance.

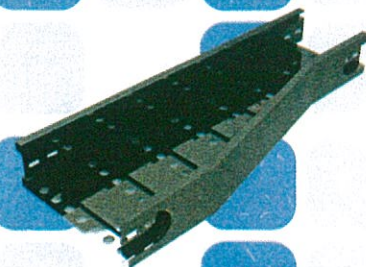
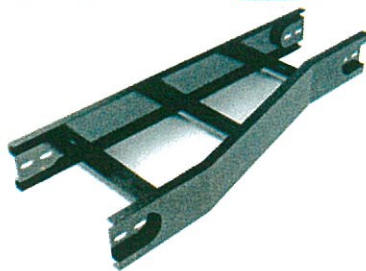
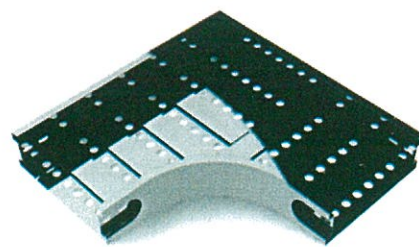
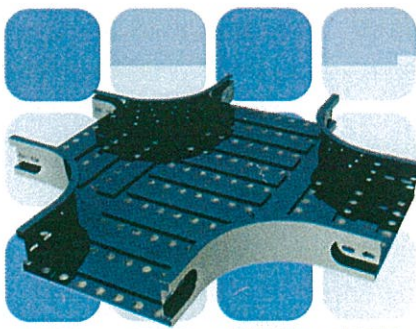
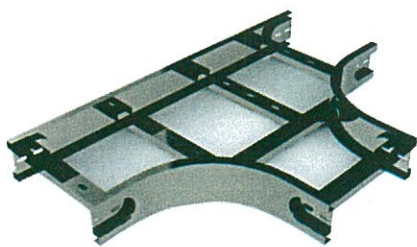
Epoxy-polyester coating provide hard film surfaces. They adhere better to most metal surface, and cover edges and recessed areas more uniformly since they employ the electrostatic spraying system. Besides, epoxy-polyester powder coatings do not produce "PIN" holes or solvent blisters since there is no solvent evaporation during the baking process.



PROPERTIES	STANDARD	EPOXY-POLYESTER(M)
Film thickness(micron)		60-80
Impact resistance(kg.-cm.)	ASTM D2794(5/8'bal)	Over 60 kg.-cm
Erichsen test (mm.)	DIN 53156	Over 7 mm.
Bend test (mm.)	DIN 53152	6 mm.
Pencil hardness	ASTM 3363	Over H
Adhesion	DIN 53151	Gt O (No loss of adhesion)
Weather resistance		Little of no (chalking)
Heat resistance		Good
Corrosion protection (zinc phosphated steel)	Salt spray 500 h. (ASTM B 117)	Rust and Blister should be with in 2 mm.x line
Density (kg/dm ³)		1.20-1.70



References



Item	Project Name	Description	Year
1	SATHORN SQUARE W-HOTEL : RITTA	WIRE WAY (EPOXY)	MARCH 2010
2	HIVE TAKSIN BRIDGE, CHAREONNAKORN ROAD : KURIHARA	WIRE WAY (EPOXY), LADDER (EPOXY)	APRIL 2010
3	YANHEE HOSPITAL : PESCO	TRAY (VS), TRAY (HDG.)	MAY 2010
4	SUMITOMO CHONBURI PROVINCE : THAI SEMCON	WIRE WAY (EPOXY), LADDER (EPOXY)	MAY 2010
5	OISHI NAVANAKORN : THAI SEMCON	TRAY (VS), TRAY (HDG.)	JUNE 2010
6	SKY WALK : SYNTECH	WIRE WAY (EPOXY)	JULY 2010
7	NOVOTEL PLATINMUM HOTEL : MCTRIC	WIRE WAY (EG.)	JULY 2010
8	SCB BANK DATA CENTER : SAENG PRADIT ENGINEERING	WIRE WAY (ALUZINC)	JULY 2010
9	BLOCKS 77 : KURIHARA	WIRE WAY (EPOXY)	JULY 2010
10	GATEWAY EKAMAI : RITTA	WIRE WAY (EPOXY)	OCTOBER 2010
11	ABSTRACTS CONDOMINIUM : SP CONTRACTING	WIRE WAY (EG.)	JANUARY 2011
12	ELETTO ROJANA PHASE 2 : THONG THAM	WIRE WAY (EPOXY)	JANUARY 2011
13	RENOVATION MERRY KING WANG BURAPHA DEPARTMENT STORE : FIRST	WIRE WAY (EPOXY)	FEBRUARY 2011
14	EPSON GATE WAY : TOENEC	PERFORATED TRAY (EPOXY)	MARCH 2011
15	MISUBISHI FACTORY III LAEMCHABANG : THONG THAM	WIRE WAY (EPOXY), LADDER (EPOXY)	MARCH 2011
16	BRIDGESTONE NONGKHAE SARABURI : THONG THAM	WIRE WAY (EPOXY), LADDER (EPOXY)	MARCH 2011
17	SUZUKI EASTERN SEABOARD INDUSTRY EST. : KINDENKO	WIRE WAY (EPOXY), LADDER (EPOXY)	APRIL 2011
18	CENTRAL PLAZA PITSANULOK : SECCO	WIRE WAY (EPOXY)	JUNE 2011
19	IN SQUARE : W. CHAIYA	WIRE WAY (EPOXY)	JUNE 2011
20	GRAND HOWARD HOTEL : BEWCON	WIRE WAY (EPOXY)	JULY 2011
21	THE ADDRESS ASOKE : BEWCON	WIRE WAY (EPOXY)	JULY 2011
22	THANYA SHOPPING PARK SRINAKARIN ROAD : MECT	WIRE WAY (EPOXY), TRAY (HDG.)	JULY 2011
23	VILLA ASOKE : SECCO	WIRE WAY (EPOXY)	OCTOBER 2011
24	BMW RAMA III : SP CONTRACTING	WIRE WAY (EPOXY)	OCTOBER 2011

CABLE LADDER TYPE

STANDARD ; Refer to BS EN, ASTM, E.I.T, NEMA VE1, ISO

MATERIALS ; Hot Rolled Mild Steel Sheet

Stainless Steel Sheet (LS Type)

FINISHING ; Painting by Electro-Static Spraying

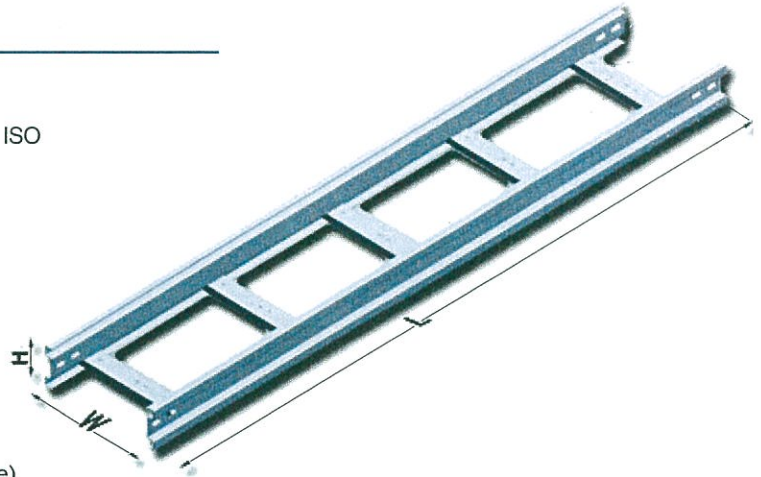
with Epoxy/Polyester Powder Paint

Coating 60-80 μm . Thickness (LP Type)

PRE-TREATMENT Zinc Phosphate

Electroplated Zinc to BSEN 12329

Hot-Dip Galvanized Average 55-65 μm Thickness to ISO 1461 or ASIM A123/A123M (LH Type)



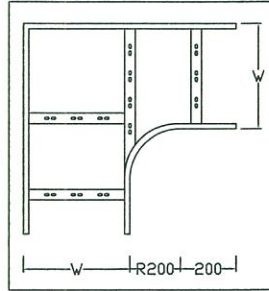
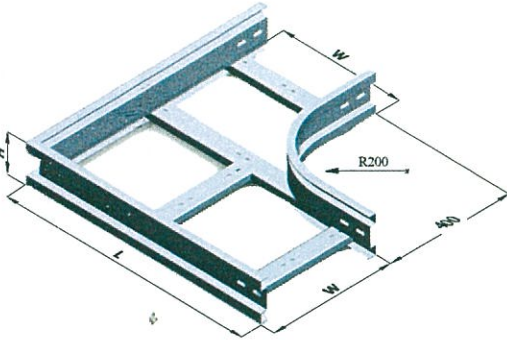
TECHNICAL DATA

TYPE (WxHxL)	Thickness (mm.)	WEIGHT(kg./m.)			BENDING STRENGTH (kg.)		
		STRAIGHT	cover		SUPPORT DISTANCE (m.)		
			T=1.6 mm.	T=2.0 mm.	1.5 m.	2.0 m.	3.0 m.
200 x 100 x 3000	2.0	6.18	2.83	3.77	1371.75	1083.00	737.05
300 x 100 x 3000	2.0	6.68	4.00	5.34	1292.85	1020.50	695.25
400 x 100 x 3000	2.0	7.18	5.17	6.91	1220.00	963.80	656.60
500 x 100 x 3000	2.0	7.68	6.34	8.48	1167.45	921.95	628.75
600 x 100 x 3000	2.0	8.18	7.51	10.05	1105.20	872.95	595.75
700 x 100 x 3000	2.0	8.68	8.68	11.62	1022.40	801.95	545.90
800 x 100 x 3000	2.0	9.18	9.85	13.19	975.45	770.75	526.95
900 x 100 x 3000	2.0	9.68	11.02	14.76	912.45	720.50	488.60
1000 x 100 x 3000	2.0	10.18	12.19	16.33	849.00	671.50	456.65

-STANDARD LENGHT : STRAIGHT = 3000 mm.
COVER = 3000 mm.

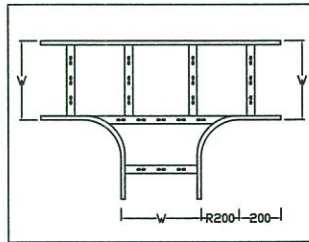
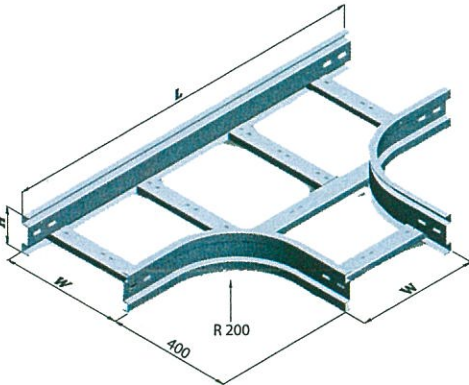
-OTHER THICKNESS OF MATERIALS
MADE BY ORDER.

90° HORIZONTAL BEND



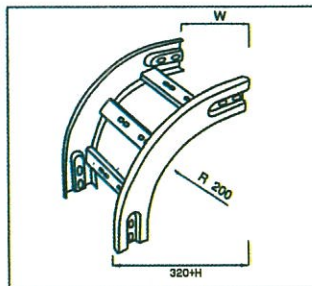
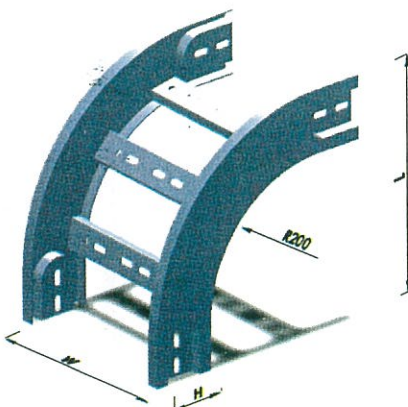
TYPE 90 HB (WxH)	THICKNESS (mm.)	WEIGHT (kg.)		
		FITTING	COVER	
			T=1.6 mm.	T=2.0 mm.
90 HB 200 x 100	2.0	6.16	3.08	4.12
90 HB 300 x 100	2.0	7.28	4.66	6.22
90 HB 400 x 100	2.0	8.99	6.48	8.64
90 HB 500 x 100	2.0	10.26	8.53	11.37
90 HB 600 x 100	2.0	12.42	10.81	14.41
90 HB 700 x 100	2.0	13.83	13.33	17.77
90 HB 800 x 100	2.0	15.25	16.09	21.45
90 HB 900 x 100	2.0	16.66	19.08	25.44
90 HB 1000 x 100	2.0	18.06	22.30	29.74

HORIZONTAL TEE



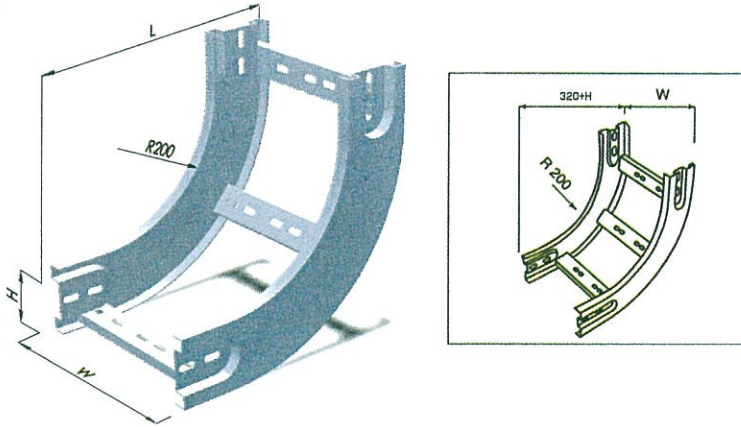
TYPE HT (WxH)	THICKNESS (mm.)	WEIGHT (kg.)		
		FITTING	COVER	
			T=1.6 mm.	T=2.0 mm.
HT 200 x 100	2.0	7.80	4.42	5.88
HT 300 x 100	2.0	9.26	6.45	8.58
HT 400 x 100	2.0	10.41	8.71	11.60
HT 500 x 100	2.0	11.57	11.20	14.94
HT 600 x 100	2.0	18.61	13.94	18.57
HT 700 x 100	2.0	14.92	16.90	22.53
HT 800 x 100	2.0	17.42	20.11	26.80
HT 900 x 100	2.0	18.87	23.54	31.38
HT 1000 x 100	2.0	20.32	27.22	36.28

90° VERTICAL OUTSIDE BEND



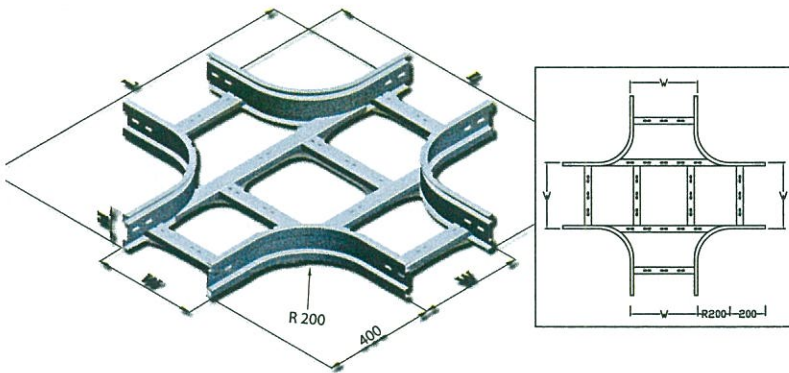
TYPE 90 VO (WxH)	THICKNESS (mm.)	WEIGHT (kg.)		
		FITTING	COVER	
			T=1.6 mm.	T=2.0 mm.
90 VO 200 x 100	2.0	4.92	2.09	2.62
90 VO 300 x 100	2.0	5.37	2.97	3.71
90 VO 400 x 100	2.0	5.82	3.85	4.80
90 VO 500 x 100	2.0	6.27	4.73	5.89
90 VO 600 x 100	2.0	6.72	5.61	6.98
90 VO 700 x 100	2.0	7.17	6.49	8.07
90 VO 800 x 100	2.0	7.62	7.37	9.16
90 VO 900 x 100	2.0	8.07	8.25	10.25
90 VO 1000 x 100	2.0	8.52	9.13	11.34

90° VERTICAL INSIDE BEND



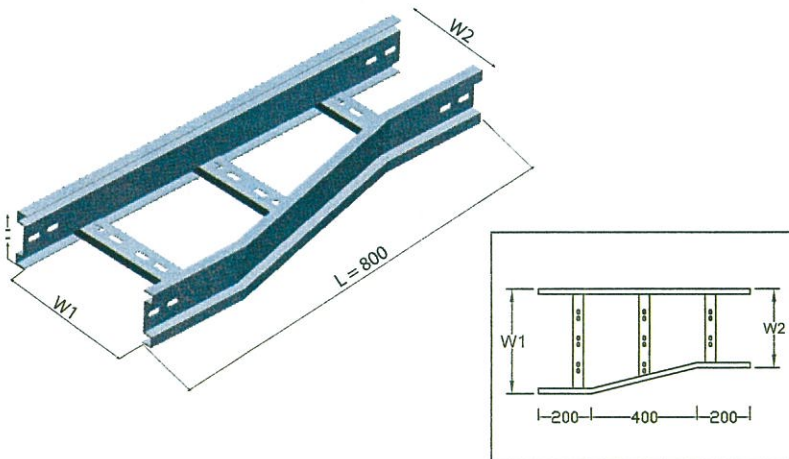
TYPE	THICKNESS (mm.)	WEIGHT (kg.)		
		FITTING	COVER	
			T=1.6 mm.	T=2.0 mm.
90 VI 200 x 100	2.0	4.92	1.63	2.04
90 VI 300 x 100	2.0	5.37	2.31	2.88
90 VI 400 x 100	2.0	5.82	2.99	3.72
90 VI 500 x 100	2.0	6.27	3.67	4.56
90 VI 600 x 100	2.0	6.72	4.35	5.40
90 VI 700 x 100	2.0	7.17	5.03	6.24
90 VI 800 x 100	2.0	7.62	5.71	7.03
90 VI 900 x 100	2.0	8.07	6.39	7.92
90 VI 1000 x 100	2.0	8.52	7.07	8.76

HORIZONTAL CROSS



TYPE	THICKNESS (mm.)	WEIGHT (kg.)		
		FITTING	COVER	
			T=1.6 mm.	T=2.0 mm.
HX 200 x 100	2.0	9.45	5.78	8.01
HX 300 x 100	2.0	10.94	8.49	11.31
HX 400 x 100	2.0	12.13	11.20	14.91
HX 500 x 100	2.0	13.33	14.14	18.84
HX 600 x 100	2.0	15.41	17.32	23.08
HX 700 x 100	2.0	16.76	20.73	27.64
HX 800 x 100	2.0	19.29	24.38	32.50
HX 900 x 100	2.0	20.78	28.27	37.68
HX 1000 x 100	2.0	22.27	32.39	43.18

HORIZONTAL REDUCE



TYPE	THICKNESS (mm.)	WEIGHT (kg.)		
		FITTING	COVER	
			T=1.6 mm.	T=2.0 mm.
HR 300,W2 x 100	2.0	5.34	2.83	3.77
HR 400,W2 x 100	2.0	5.79	3.71	5.02
HR 500,W2 x 100	2.0	6.23	4.71	6.27
HR 600,W2 x 100	2.0	6.68	5.45	7.52
HR 700,W2 x 100	2.0	7.13	6.19	8.77
HR 800,W2 x 100	2.0	7.58	6.93	10.02
HR 900,W2 x 100	2.0	8.03	7.67	11.27
HR 1000,W2 x 100	2.0	8.43	8.41	12.52

FITTING FOR CABLE TRAY

STANDARD ; Refer to BS EN, ASTM, E.I.T, NEMA VE1, ISO

MATERIALS ; Cold Rolled Mild Steel Sheet

Hot Rolled Mild Steel Sheet

Stainless Steel Sheet (VS Type)

FINISHING ; Painting by Electro-Static Spraying

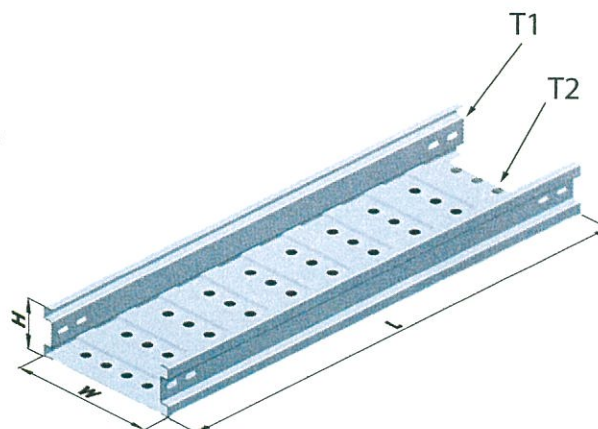
with Epoxy/Polyester Powder Paint

Coating 60-80 μ M. Thickness (VP Type)

PRE-TREATMENT Zinc Phosphate

Electroplated Zinc to BSEN 12329

Hot-Dip Galvanized Average 55-65 μ M Thickness to ISO 1461 or ASIM A123/A123M (LH Type)



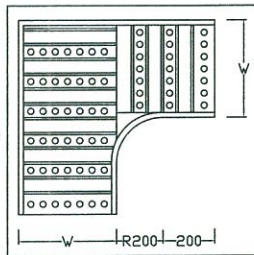
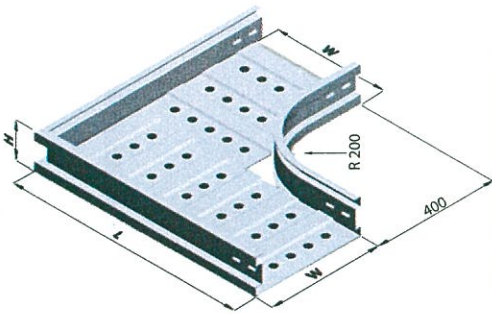
TECHNICAL DATA

TYPE (WxHxL)	Thickness T1/T2 (mm.)	WEIGHT(kg./m.)			BENDING STRENGTH (kg.)		
		STRAIGHT	cover		SUPPORT DISTANCE (m.)		
			T=1.6 mm.	T=2.0 mm.	1.5 m.	2.0 m.	3.0 m.
200 x 100 x 2440	1.6/1.2	5.52	2.83	3.77	1205.50	928.00	638.95
300 x 100 x 2440	1.6/1.2	6.34	4.00	5.34	1367.35	1079.95	726.70
400 x 100 x 2440	1.6/1.2	7.16	5.17	6.91	1450.80	1146.15	769.85
500 x 100 x 2440	1.6/1.2	7.98	6.34	8.48	1512.65	1202.10	806.45
600 x 100 x 2440	2.0/1.6	12.55	7.51	10.05	1605.20	1268.11	850.00
700 x 100 x 2440	2.0/1.6	13.78	8.68	11.62	1735.35	1370.90	919.75
800 x 100 x 2440	2.0/1.6	15.01	9.85	13.19	1842.10	1455.50	976.35
900 x 100 x 2440	2.0/1.6	16.24	11.02	14.76	1960.70	1548.95	1039.15
1000 x 100 x 2440	2.0/1.6	17.47	12.19	16.33	2065.20	1631.50	1096.55

-STANDARD LENGHT : STRAIGHT = 2440 mm.
COVER = 2440 mm.

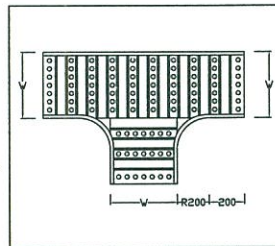
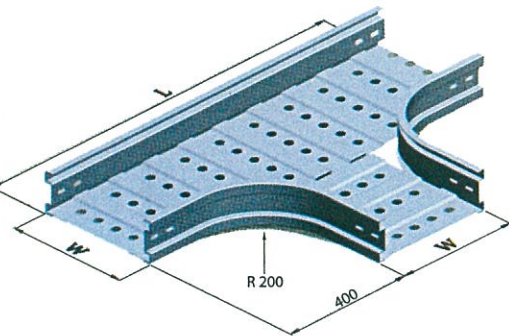
-OTHER THICKNESS OF MATERIALS
MADE BY ORDER.

90° HORIZONTAL BEND



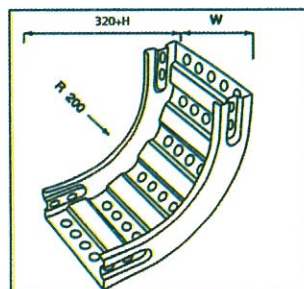
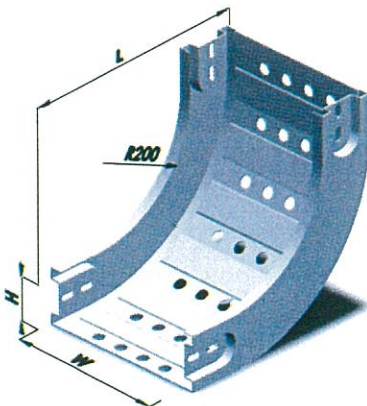
TYPE 90 HB (WxH)	THICKNESS T1/T2 (mm.)	FITTING	WEIGHT (kg.)	
			COVER	
			T=1.6 mm.	T=2.0 mm.
90 HB 200 x 100	1.6/1.2	5.79	3.08	4.12
90 HB 300 x 100	1.6/1.2	7.25	4.66	6.22
90 HB 400 x 100	1.6/1.2	8.88	6.48	8.64
90 HB 500 x 100	1.6/1.2	10.68	8.53	11.37
90 HB 600 x 100	2.0/1.6	17.42	10.81	14.41
90 HB 700 x 100	2.0/1.6	20.58	13.37	17.77
90 HB 800 x 100	2.0/1.6	23.98	16.09	21.45
90 HB 900 x 100	2.0/1.6	27.66	19.08	25.44
90 HB 1000 x 100	2.0/1.6	31.60	22.30	29.74

HORIZONTAL TEE



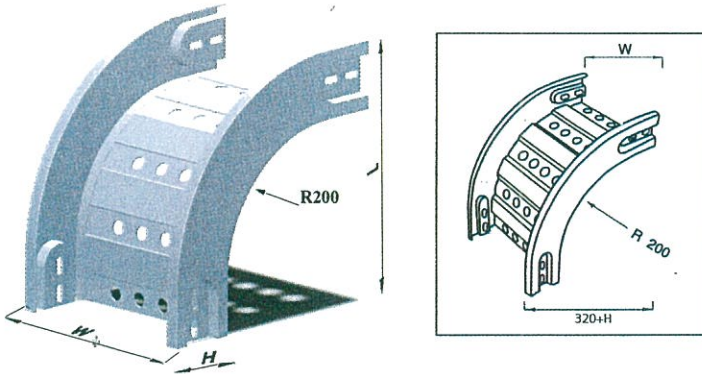
TYPE HT (WxH)	THICKNESS T1/T2 (mm.)	FITTING	WEIGHT (kg.)	
			COVER	
			T=1.6 mm.	T=2.0 mm.
HT 200 x 100	1.6/1.2	7.91	4.42	5.87
HT 300 x 100	1.6/1.2	9.55	6.45	8.58
HT 400 x 100	1.6/1.2	11.40	8.71	19.60
HT 500 x 100	1.6/1.2	13.45	11.20	14.94
HT 600 x 100	2.0/1.6	21.30	13.94	22.53
HT 700 x 100	2.0/1.6	24.96	16.90	22.53
HT 800 x 100	2.0/1.6	28.93	20.11	26.80
HT 900 x 100	2.0/1.6	33.21	23.54	31.38
HT 1000 x 100	2.0/1.6	37.79	27.22	36.28

90° VERTICAL INSIDE BEND



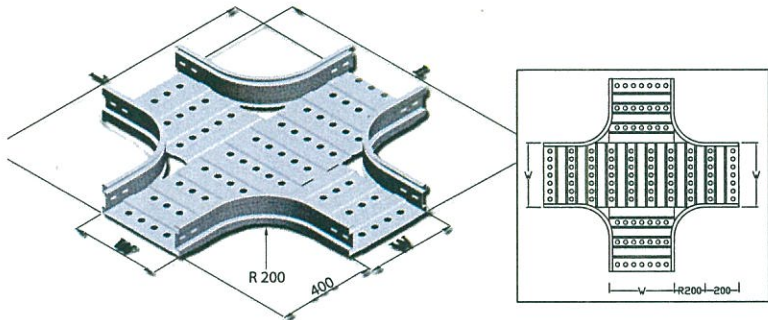
TYPE 90 VI (WxH)	THICKNESS T1/T2 (mm.)	FITTING	WEIGHT (kg.)	
			COVER	
			T=1.6 mm.	T=2.0 mm.
90 VI 200 x 100	1.6/1.2	5.15	1.63	2.04
90 VI 300 x 100	1.6/1.2	5.72	2.31	2.88
90 VI 400 x 100	1.6/1.2	6.29	2.99	3.72
90 VI 500 x 100	1.6/1.2	6.86	3.67	4.56
90 VI 600 x 100	2.0/1.6	9.10	4.35	5.40
90 VI 700 x 100	2.0/1.6	9.95	5.03	6.24
90 VI 800 x 100	2.0/1.6	10.79	5.71	7.08
90 VI 900 x 100	2.0/1.6	11.63	6.39	7.92
90 VI 1000 x 100	2.0/1.6	12.47	7.07	8.76

90° VERTICAL OUTSIDE BEND



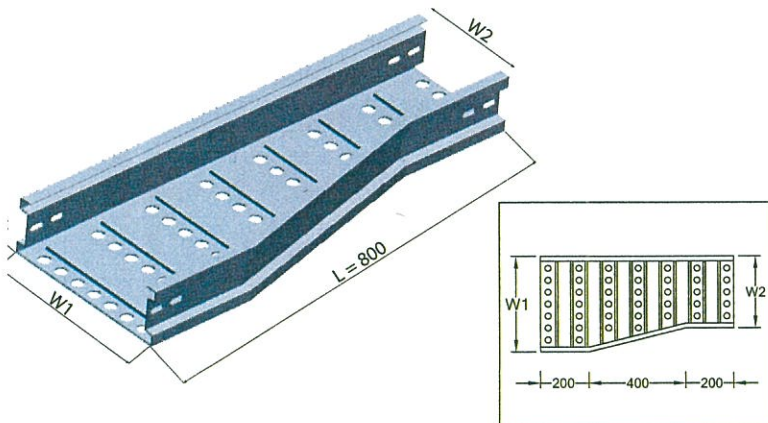
TYPE	THICKNESS T1/T2 (mm.)	WEIGHT (kg.)		
		FITTING	COVER	
			T=1.6 mm.	T=2.0 mm.
90VO 200 x 100	1.6/1.2	4.90	2.09	2.62
90VO 300 x 100	1.6/1.2	5.34	2.97	3.71
90VO 400 x 100	1.6/1.2	5.78	3.85	4.80
90VO 500 x 100	1.6/1.2	6.22	4.37	5.89
90VO 600 x 100	2.0/1.6	7.98	5.61	6.98
90VO 700 x 100	2.0/1.6	8.64	6.49	8.07
90VO 800 x 100	2.0/1.6	9.30	7.37	9.16
90VO 900 x 100	2.0/1.6	9.96	8.25	10.25
90VO 1000 x 100	2.0/1.6	10.62	9.13	11.34

HORIZONTAL CROSS



TYPE	THICKNESS T1/T2 (mm.)	WEIGHT (kg.)		
		FITTING	COVER	
			T=1.6 mm.	T=2.0 mm.
HX 200 x 100	1.6/1.2	10.34	5.78	8.01
HX 300 x 100	1.6/1.2	12.14	8.49	11.31
HX 400 x 100	1.6/1.2	14.14	11.20	14.91
HX 500 x 100	1.6/1.2	16.35	14.14	18.84
HX 600 x 100	2.0/1.6	24.46	17.32	23.08
HX 700 x 100	2.0/1.6	28.38	20.73	27.64
HX 800 x 100	2.0/1.6	32.61	24.38	32.50
HX 900 x 100	2.0/1.6	37.14	28.27	37.68
HX 1000 x 100	2.0/1.6	41.98	32.39	43.18

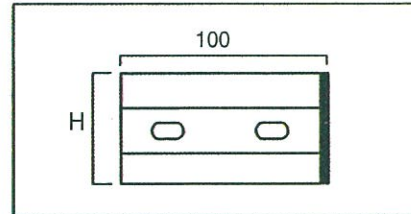
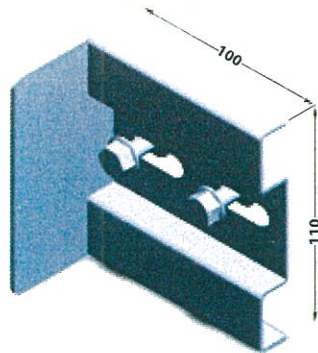
HORIZONTAL REDUCE



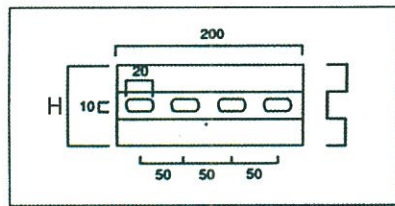
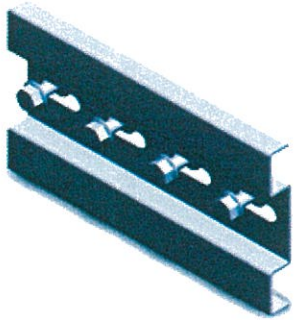
TYPE	THICKNESS T1/T2 (mm.)	WEIGHT (kg.)		
		FITTING	COVER	
			T=1.6 mm.	T=2.0 mm.
HR 300,W2 x 100	1.6/1.2	4.80	2.83	3.77
HR 400,W2 x 100	1.6/1.2	5.45	3.77	5.02
HR 500,W2 x 100	1.6/1.2	6.10	4.71	6.27
HR 600,W2 x 100	2.0/1.6	6.55	5.45	7.52
HR 700,W2 x 100	2.0/1.6	10.58	6.19	8.77
HR 800,W2 x 100	2.0/1.6	11.56	6.93	10.02
HR 900,W2 x 100	2.0/1.6	12.54	7.67	11.27
HR 1000,W2 x 100	2.0/1.6	13.52	8.41	12.52

ACCESSORIES

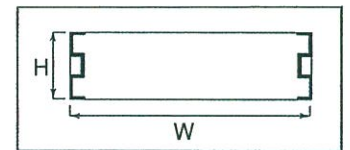
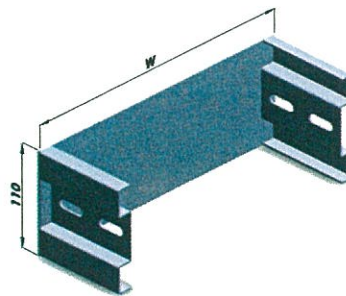
FLANGE END



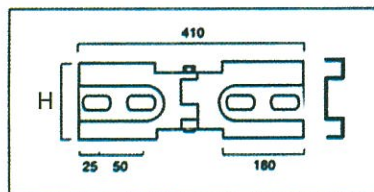
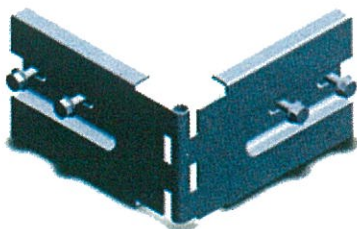
SPLICE PLATE



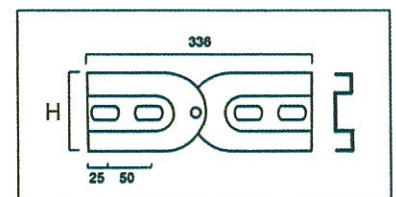
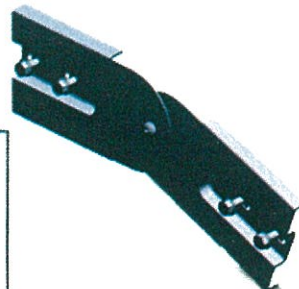
END CAP



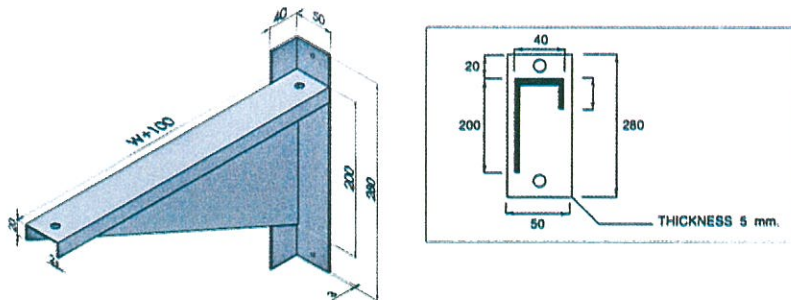
HORIZONTAL ADJUSTABLE



VERTICAL ADJUSTABLE



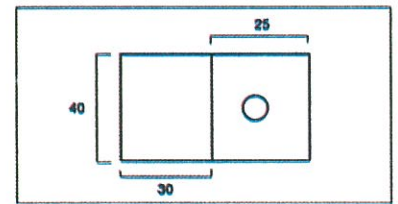
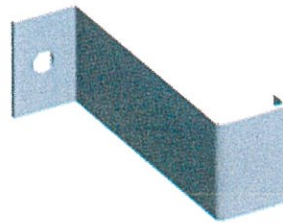
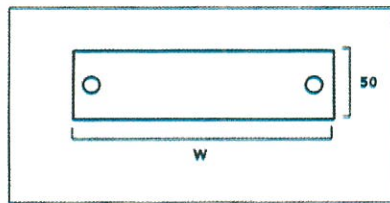
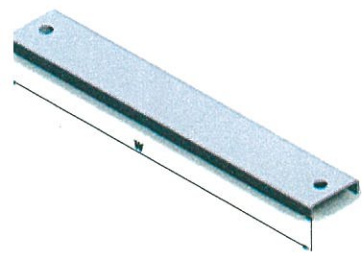
BRACKET SUPPORT



ACCESSORIES

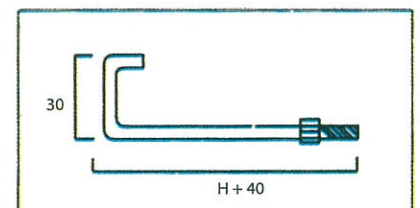
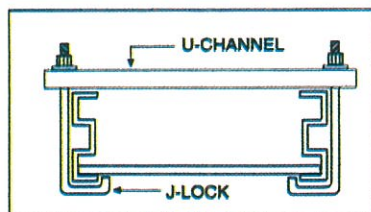
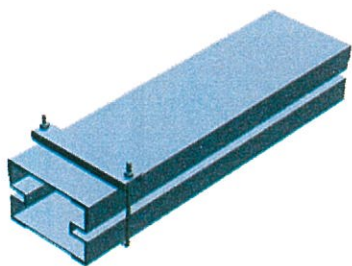
U-CHANNEL (FOR J-LOCK)

HOLD DOWN CLAMP



INSTALLATION

J-LOCK



STEEL WIREWAY WITH COVER

STANDARD ; Refer to BS EN, ASTM, E.I.T, NEMA VE1, ISO

- MATERIALS** ;
- Cold Rolled Mild Steel Sheet
 - Hot Rolled Mild Steel Sheet
 - Galvanized Steel Sheet (WG Type)
 - Aluzinc Steel Sheet (WAL Type)
 - Stainless Steel Sheet (WS Type)

FINISHING ; Painting by Electro-Static Spraying

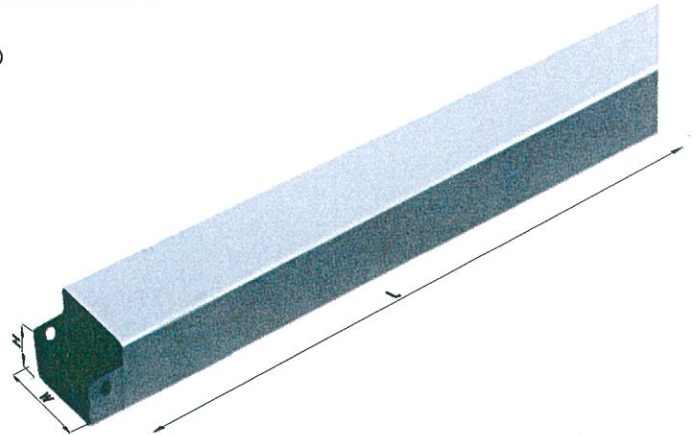
with Epoxy/Polyester Powder Paint

Coating 60-80 μ M. Thickness (WP Type)

PRE-TREATMENT Zinc Phosphate

Electroplated Zinc to BSEN 12329

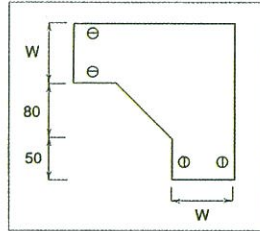
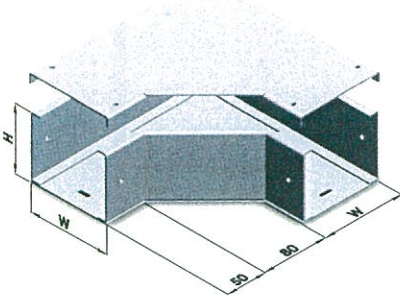
Hot-Dip Galvanized Average 55-65 μ M Thickness to ASTM A123/A123M (WH Type)



TECHNICAL DATA

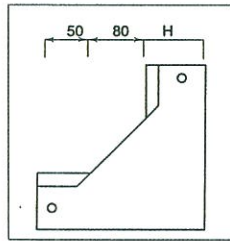
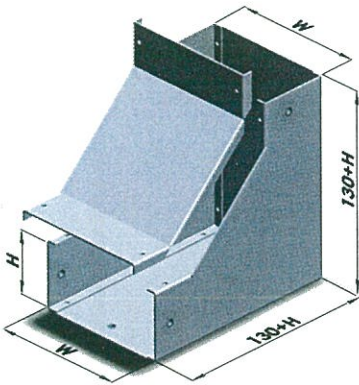
TYPE (W x H x L)	BENDING STRENGTH (Kg.)											
	STEEL SHEET THICKNESS (mm.)											
	1.0			1.2			1.6			2.0		
	WEIGHT (Kg./m.)	S.D.(m.)		WEIGHT (Kg./m.)	S.D.(m.)		WEIGHT (Kg./m.)	S.D.(m.)		WEIGHT (Kg./m.)	S.D.(m.)	
1.5		2.0	1.5		2.0	1.5		2.0	1.5		2.0	
75 x 50 x 2440	2.37	276.55	221.25	2.85	370.50	296.40	3.56	583.35	452.20	4.74	906.80	687.80
100 x 50 x 2440	2.76	318.25	254.60	3.32	408.50	326.80	4.15	632.10	490.00	5.53	971.85	725.50
100 x 75 x 2440	3.16	349.50	277.40	3.79	463.35	369.35	4.73	695.30	539.00	6.31	1009.20	767.60
100 x 100 x 2440	3.55	387.00	305.00	4.26	500.80	395.20	5.32	749.95	581.35	7.10	1067.45	798.75
150 x 100 x 2440	4.33	395.00	334.40	5.20	562.00	443.70	6.33	796.30	627.00	8.78	1105.85	817.70
200 x 100 x 2440	5.12	418.00	357.20	6.14	602.15	477.90	7.68	852.95	661.20	10.24	1197.65	921.30
250 x 100 x 2440	-	-	-	7.08	645.17	514.70	8.86	884.90	696.80	11.81	1265.50	980.40
300 x 100 x 2440	-	-	-	8.02	690.97	554.88	10.04	994.45	743.65	13.38	1326.10	1012.50
350 x 100 x 2440	-	-	-	-	-	-	11.22	987.45	785.40	14.95	1377.45	1067.80
400 x 100 x 2440	-	-	-	-	-	-	12.40	1046.35	823.90	16.52	1419.95	1113.40
450 x 100 x 2440	-	-	-	-	-	-	13.58	1076.20	847.40	18.09	1482.60	1128.50
500 x 100 x 2440	-	-	-	-	-	-	14.76	1134.80	900.00	19.66	1530.70	1188.00

90° HORIZONTAL BEND WITH COVER



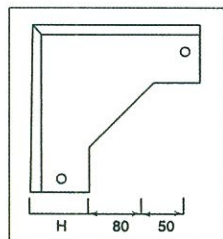
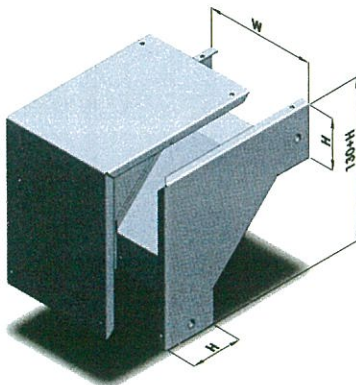
TYPE	WEIGHT (kg.)			
	THICKNESS (mm.)			
90 HB (WxH)	1.0	1.2	1.6	2.0
90 HB 75 x 50	0.35	0.42	0.56	0.70
90 HB 100 x 50	0.43	0.52	0.69	0.86
90 HB 100 x 75	0.58	0.70	0.93	1.16
90 HB 100 x 100	0.69	0.83	1.10	1.38
90 HB 150 x 100	0.96	1.15	1.51	1.89
90 HB 200 x 100	1.24	1.49	1.98	2.48
90 HB 250 x 100	-	1.89	2.52	3.15
90 HB 300 x 100	-	2.33	3.11	3.89
90 HB 350 x 100	-	-	3.77	4.72
90 HB 400 x 100	-	-	4.49	5.62
90 HB 450 x 100	-	-	5.28	6.60
90 HB 500 x 100	-	-	6.14	7.66

90° VERTICAL INSIDE BEND WITH COVER



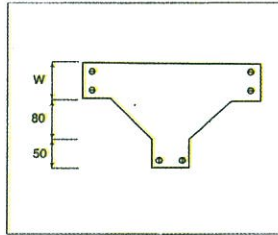
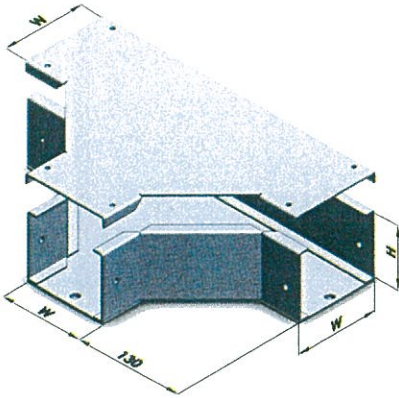
TYPE	WEIGHT (kg.)			
	THICKNESS (mm.)			
90 VI (WxH)	1.0	1.2	1.6	2.0
90 VI 75 x 50	0.70	0.84	1.13	1.49
90 VI 100 x 50	0.82	0.98	1.31	1.64
90 VI 100 x 75	1.13	1.36	1.80	2.23
90 VI 100 x 100	1.35	1.62	2.17	2.71
90 VI 150 x 100	1.62	1.94	2.60	3.35
90 VI 200 x 100	1.89	2.27	3.03	3.79
90 VI 250 x 100	-	2.60	3.46	4.33
90 VI 300 x 100	-	2.91	3.90	4.87
90 VI 350 x 100	-	-	4.33	5.42
90 VI 400 x 100	-	-	4.96	5.96
90 VI 450 x 100	-	-	5.20	6.50
90 VI 500 x 100	-	-	5.63	7.04

90° VERTICAL OUTSIDE BEND WITH COVER



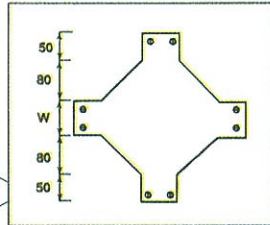
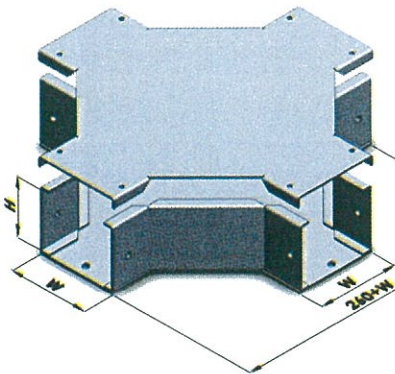
TYPE	WEIGHT (kg.)			
	THICKNESS (mm.)			
90 VO (WxH)	1.0	1.2	1.6	2.0
90 VO 75 x 50	0.70	0.84	1.13	1.49
90 VO 100 x 50	0.82	0.98	1.31	1.64
90 VO 100 x 75	1.13	1.36	1.80	2.25
90 VO 100 x 100	1.35	1.62	2.17	2.71
90 VO 150 x 100	1.62	1.94	2.60	3.35
90 VO 200 x 100	1.89	2.27	3.03	3.79
90 VO 250 x 100	-	2.60	3.46	4.33
90 VO 300 x 100	-	2.91	3.90	4.87
90 VO 350 x 100	-	-	4.33	5.42
90 VO 400 x 100	-	-	4.76	5.96
90 VO 450 x 100	-	-	5.20	6.50
90 VO 500 x 100	-	-	5.63	7.04

HORIZONTAL TEE WITH COVER



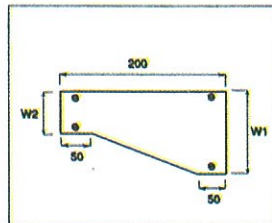
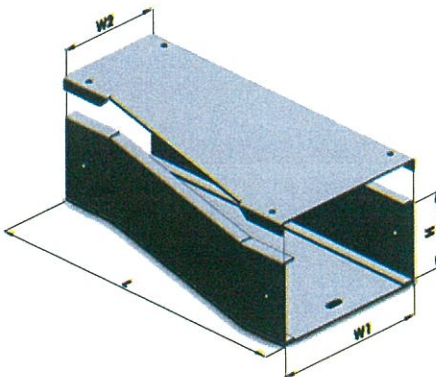
TYPE HT (WxH)	WEIGHT (kg.)			
	THICKNESS (mm.)			
	1.0	1.2	1.6	2.0
HT 75 X 50	1.31	1.57	2.09	2.62
HT 100 X 50	1.55	1.87	2.48	3.10
HT 100 X 75	1.76	2.11	2.82	3.53
HT 100 X 100	1.94	2.33	3.10	3.87
HT 150 X 100	2.49	2.99	3.99	4.98
HT 200 X 100	3.12	3.74	4.99	6.25
HT 250 X 100	-	4.50	6.00	7.50
HT 300 X 100	-	5.44	7.25	9.08
HT 350 X 100	-	-	8.65	10.84
HT 400 X 100	-	-	10.16	12.70
HT 450 X 100	-	-	11.80	14.75
HT 500 X 100	-	-	13.57	16.96

HORIZONTAL CROSS WITH COVER



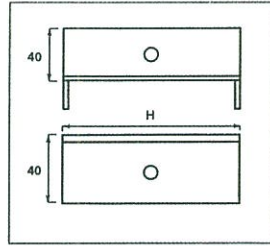
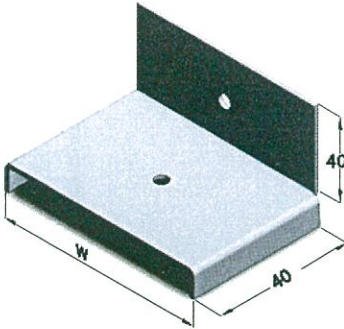
TYPE HX (WxH)	WEIGHT (kg.)			
	THICKNESS (mm.)			
	1.0	1.2	1.6	2.0
HX 75 X 50	1.80	2.16	2.88	3.60
HX 100 X 50	2.08	2.50	3.32	4.15
HX 75 X 75	2.37	2.84	3.79	4.74
HX 100 X 100	2.57	3.08	4.11	5.14
HX 150 X 100	3.18	3.82	5.08	6.35
HX 200 X 100	3.86	4.65	6.17	7.72
HX 250 X 100	-	5.35	7.13	8.91
HX 300 X 100	-	6.35	8.47	10.59
HX 350 X 100	-	-	9.94	12.43
HX 400 X 100	-	-	11.54	14.42
HX 450 X 100	-	-	13.26	16.57
HX 500 X 100	-	-	15.16	18.88

HORIZONTAL REDUCE WITH COVER



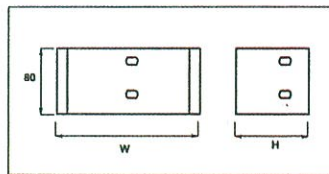
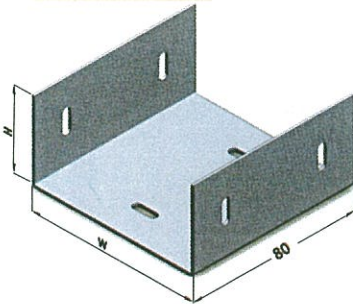
TYPE HR (WxH)	WEIGHT (kg.)			
	THICKNESS (mm.)			
	1.0	1.2	1.6	2.0
HR 100, 75 X 50	0.54	0.65	0.81	1.08
HR 150, 100 X 100	0.85	1.02	1.28	1.70
HR 200, W2 X 100	1.00	1.20	1.50	2.00
HR 250, W2 X 100	-	1.31	1.75	2.33
HR 300, W2 X 100	-	1.50	2.00	2.66
HR 350, W2 X 100	-	-	2.25	2.99
HR 400, W2 X 100	-	-	2.50	3.52
HR 450, W2 X 100	-	-	2.75	3.61
HR 500, W2 X 100	-	-	3.00	3.97

FLANGE END



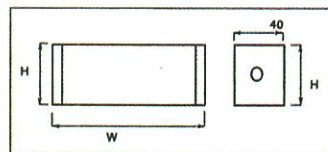
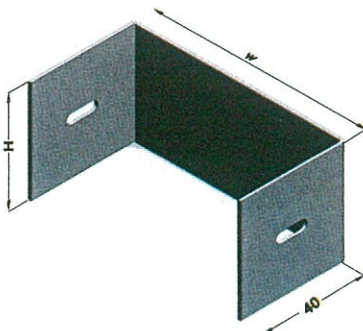
TYPE FE (WxH)	WEIGHT (kg.)			
	THICKNESS (mm.)			
	1.0	1.2	1.6	2.0
FE 50	0.08	0.10	0.13	0.16
FE 75	0.09	0.11	0.14	0.18
FE 100	0.10	0.12	0.15	0.20
FE 150	0.11	0.13	0.16	0.22

CONNECTOR



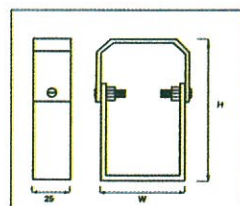
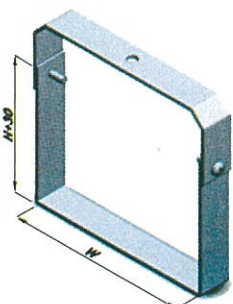
TYPE WC (WxH)	WEIGHT (kg.)			
	THICKNESS (mm.)			
	1.0	1.2	1.6	2.0
WC 75 X 50	0.09	0.11	0.15	0.18
WC 100 X 50	0.11	0.13	0.17	0.22
WC 100 X 75	0.12	0.14	0.20	0.25
WC 100 X 100	0.14	0.17	0.23	0.29
WC 150 X 100	0.18	0.22	0.28	0.35
WC 200 X 100	0.21	0.25	0.33	0.41
WC 250 X 100	-	0.28	0.38	0.48
WC 300 X 100	-	0.32	0.43	0.54
WC 350 X 100	-	-	0.48	0.60
WC 400 X 100	-	-	0.53	0.66
WC 450 X 100	-	-	0.58	0.72
WC 500 X 100	-	-	0.63	0.78

END CAP

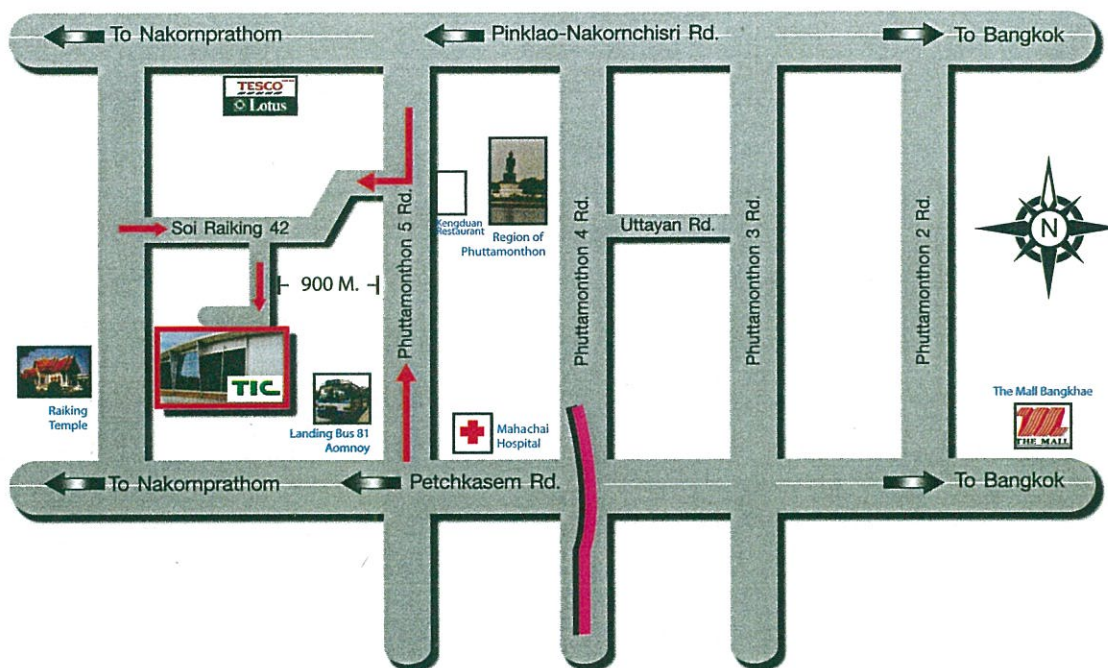


TYPE EC (WxH)	WEIGHT (kg.)			
	THICKNESS (mm.)			
	1.0	1.2	1.6	2.0
EC 75 X 50	0.06	0.07	0.09	0.12
EC 100 X 50	0.07	0.08	0.11	0.14
EC 100 X 75	0.10	0.12	0.17	0.21
EC 100 X 100	0.14	0.16	0.22	0.27
EC 150 X 100	0.18	0.22	0.29	0.36
EC 200 X 100	0.22	0.26	0.35	0.43
EC 250 X 100	-	0.31	0.41	0.50
EC 300 X 100	-	0.35	0.47	0.57
EC 350 X 100	-	-	0.52	0.64
EC 400 X 100	-	-	0.59	0.71
EC 450 X 100	-	-	0.65	0.78
EC 500 X 100	-	-	0.71	0.84

HANGER SUPPORT



TYPE HS-WP (WxH)	THICKNESS (mm.)	WEIGHT (kg.)
	HS-WP 75 X 50	2.00
HS-WP 100 X 50	2.00	0.23
HS-WP 100 X 75	2.00	0.25
HS-WP 100 X 100	2.00	0.28
HS-WP 150 X 100	2.00	0.32
HS-WP 200 X 100	2.00	0.37



TIC

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