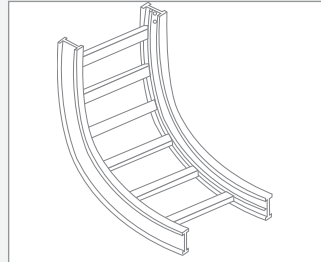
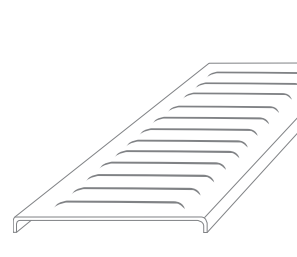
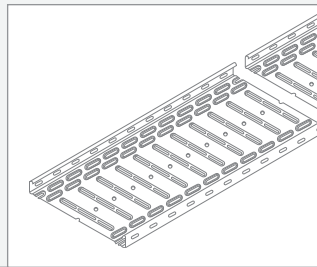
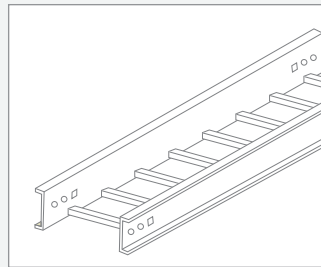


# DAEHAN

## GENERAL CATALOG No.17



### CABLE TRAY SYSTEM

- LADDER TYPE
- EASY TRAY(POSMAC, GIX)
- PERFORATED TYPE
- SOLID BOTTOM TYPE
- PUNCHED PLATE
- HI - TEC TRAY
- G.R.P TRAY
- ALUMINIUM TRAY
- CLEAN RIVET TRAY
- RACE WAY SYSTEM
- COVERS
- TRAY SUPPORT SYSTEM & ACCESSORIES
- CHANNEL SUPPORT SYSTEM



### CABLE TRAY SYSTEM

- LADDER TYPE
- EASY TRAY(POSMAC, GIX)
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- COVERS
- TRAY SUPPORT SYSTEM & ACCESSORIES
- CHANNEL SUPPORT SYSTEM

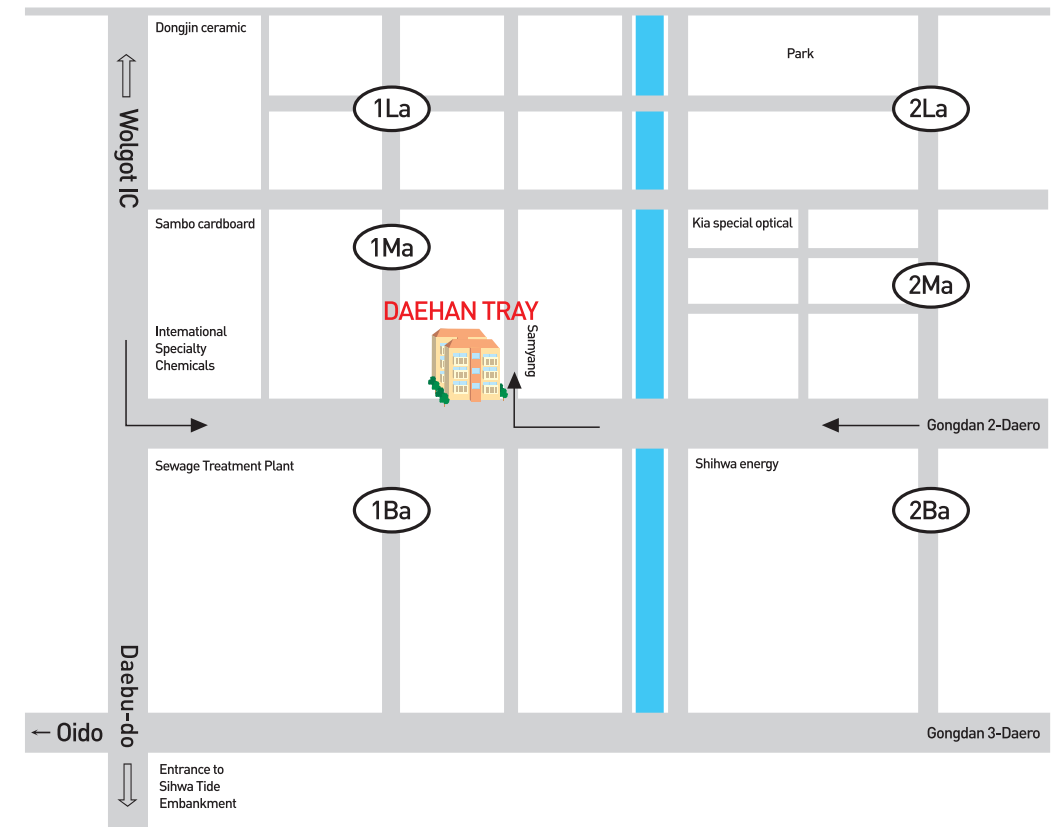
 **DAEHAN TRAY INDUSTRY CO.,LTD.**

148, Gongdan 1-Daero, 80-Beongil, Siheung City,  
Gyeonggi-Do, Korea (Sihwa Gongdan 1-Ma, 605-4)  
TEL : (031)319-9225-6 FAX : (031)319-9227  
E-mail : webmaster@dhtray.co.kr <http://www.dhtray.co.kr>



We produce nearly all type of cable trays such as Ladder type, Perforated type, Solid bottom type, Hi-tec, F.R.P. trays and Raceway, Accessories & etc.

We provide all products at reasonable price to meet our customers' need.



**DAE HAN DAEHAN TRAY INDUSTRY CO.,LTD.**  
 148, Gongdan 1-Daero, 80-Beongil, Siheung City,  
 Gyeonggi-Do, Korea (Siha Gongdan 1-Ma, 605-4)  
 TEL : (031)319-9225-6 FAX : (031)319-9227  
 E-mail : webmaster@dhtray.co.kr http://www.dhtray.co.kr



**DAEHAN TRAY  
INDUSTRY CO.,LTD.**





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*Good Business Partner For you!*  
*Global Company realizing dreams and values - DaeHan Tray*



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## Introduction

We, [Dae-Han Tray Industry Co., Ltd.](#), a well-known manufacturer of all types of cable trays in Korea, were established in 1999 and have been in business with top-class Korean conglomerates such as Samsung, Hyundai, SK, LG, GS, Daewoo, Doosan, Dae-lim & etc. and many other foreign companies worldwide so far .

We dare to say that we are always the best in serving our cherished client 'YOU' with full respects and sincerity no matter who you are and where you are.

In addition, YOU would start to get our prompt attentions and sincere supports for quality product with internationally competitive price and on-time delivery & many more in whole procedures once you are with us

Please don't hesitate to contact us anytime.

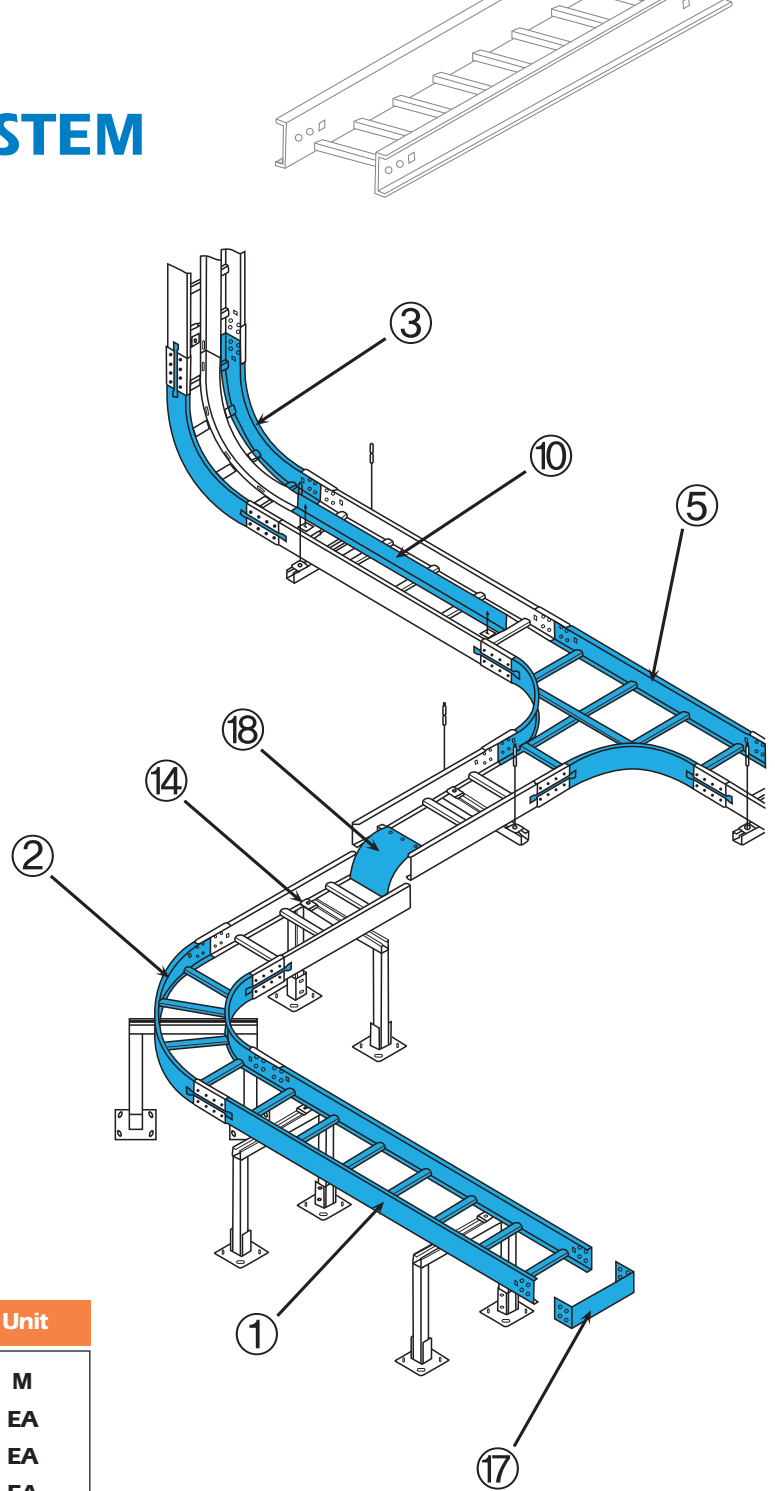
We are ready to be with you in 24 hours a day and 7 days a week around the year. We promise our utmost efforts until YOU satisfied..

With Best Regards,

# Company History

- 1999. 06**      Founded DaeHan Tray
- 2001. 05**      Acquired ISO 9002
- 2002. 12**      Moved to Shihwa Industrial Complex due to business growth (2 Ba, Rm 609)
- 2003. 04**      Acquired KS C 8464  
**2003. 06**      Acquired ISO 9001
- 2004. 03**      As the company grew, established the new section for handling "safety scaffold"
- 2005. 05**      Joined Korea Metal Industry Cooperative (No. 1116)  
**2005. 07**      Registered as a supplier to Korea Midland Power (Midland No. 0507-0042)  
**2005. 05**      Registered as a supplier to Korea Southern Power (No. KSP0509-470)  
**2005. 10**      Registered as a supplier to KOSEP (No. H0510-069)  
**2005. 11**      Moved to the address (1 Ma Rm. 605-4 within Shihwa Industrial Complex)
- 2006. 03**      Acquired KS A9001:2001 and ISO 9001:2000  
**2006. 04**      Registered as a supplier to Korea East-West Power  
**2006. 06**      Acquired KS C 8460)  
**2006. 06**      Registered as a supplier to Korea Western Power (WP0606-042)
- 2007. 03**      Acquired CE certificate (TUV)  
**2007. 03**      Acquired INNO-BIZ  
**2007. 05**      Acquired venture business certificate  
**2007. 07**      Acquired UL  
**2007. 10**      Acquired KS C 8465  
**2007. 11**      Acquired KS A ISO 14001:2004 and ISO 14001:2004  
**2007. 11**      Acquired OHSAS 18001:1999
- 2008. 06**      Nominated as a promisory small-medium sized entrepreneur from Industrial Bank of Korea (2008.06.13~2013.06.30)  
**2008. 06**      Registered a Design (No. 30-0496876) - Bar of Cable Tray
- 2008. 06**      Registered a Design (No. 30-0496879) - Bar of Cable Tray
- 2009. 04**      Registered a Utility (20-0444150) - Support device for cable tray
- 2010. 08**      Registered a Patent (10-0978214) - Column supporting beam structure and iron frame construction using it.
- 2011. 11**      Registered a Utility (20-0457051) - Adhesion preventive apparatus embedding cable accept space.
- 2012. 04**      Registered a patent (10-1140627) - Construction method for concrete bldg.
- 2013. 12**      Applied for new patent (file No. 10-2013-0161301) : Manufacturing method of cable tray thru non-welding press.

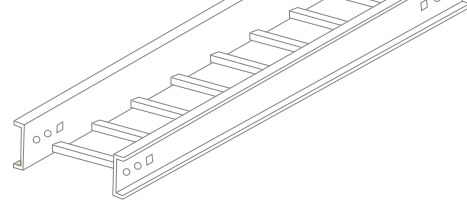
# CABLE TRAY SYSTEM



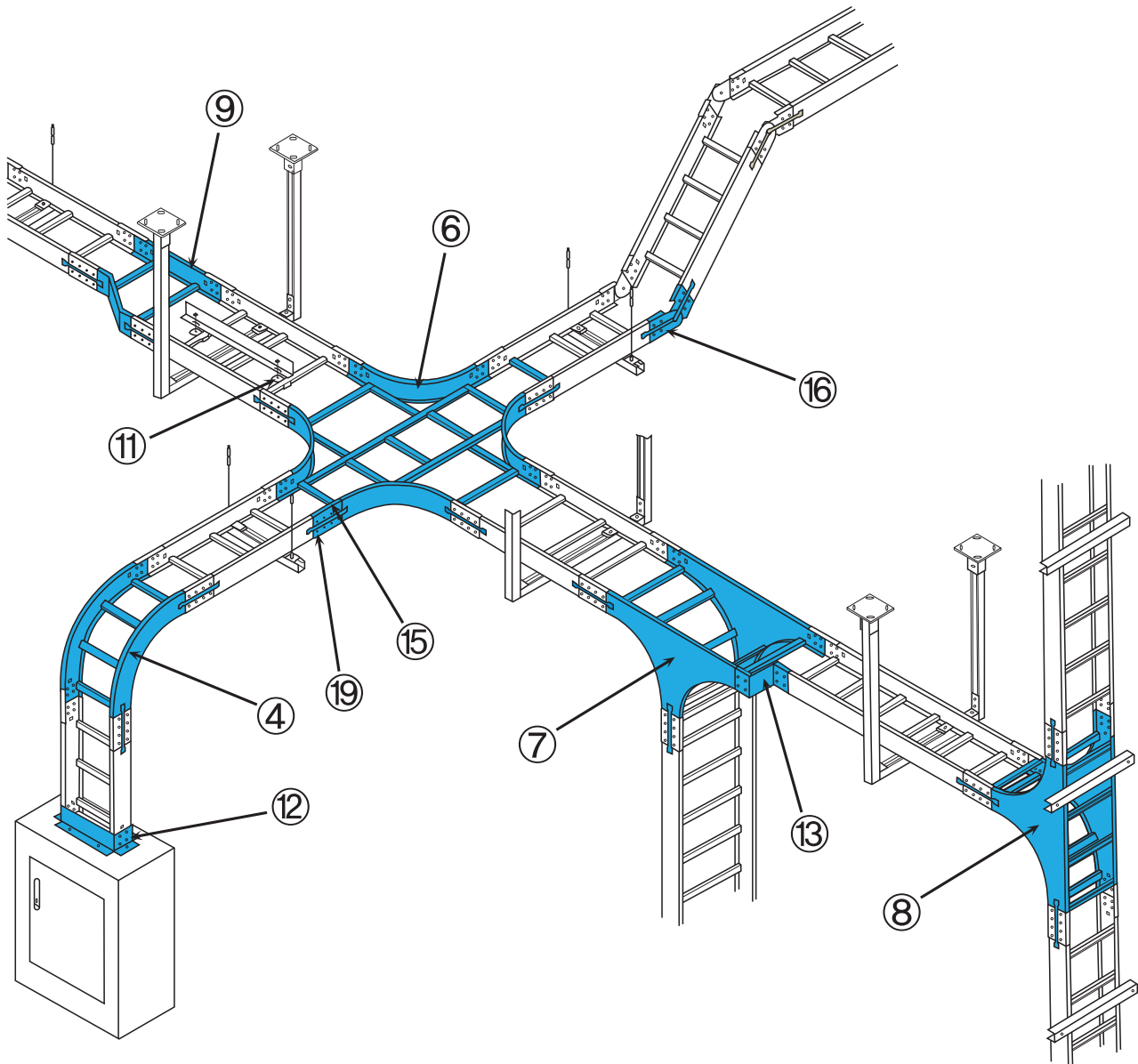
CABLE TRAY SYSTEM	Unit
① CABLE TRAY STRAIGHT	M
② 90° HORIZONTAL ELBOW	EA
③ 90° VERTICAL INSIDE ELBOW	EA
④ 90° VERTICAL OUTSIDE ELBOW	EA
⑤ HORIZONTAL TEE	EA
⑥ HORIZONTAL CROSS	EA
⑦ VERTICAL TEE (DOWN TYPE)	EA
⑧ VERTICAL TEE (UP TYPE)	EA
⑨ RIGHT REDUCER	EA
⑩ TRAY SEPARATOR	EA
⑪ SEPARATOR CLAMP	EA
⑫ BOX CONNECTOR	EA
⑬ REDUCING CONNECTOR	EA
⑭ HOLD DOWN CLAMP	EA
⑮ JOINT CONNECTOR	EA
⑯ ADJUSTABLE RISER CONNECTOR	EA
⑰ BLIND END PLATE	EA
⑱ END DROPOUT	EA
⑲ GROUNDING BONDING JUMPER	EA



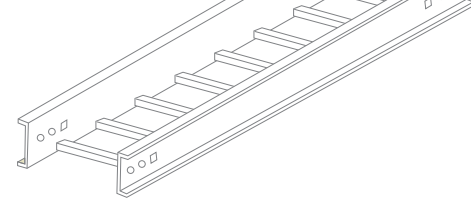
# CABLE TRAY SYSTEM



- Materials: KS D 3501 (SPHC)
- Finishes: Hot Dip Galvanized
- Standard Unit Length: 3,000mm
- Thickness: 2.0t, 2.3t, 2.6t, 3.2t

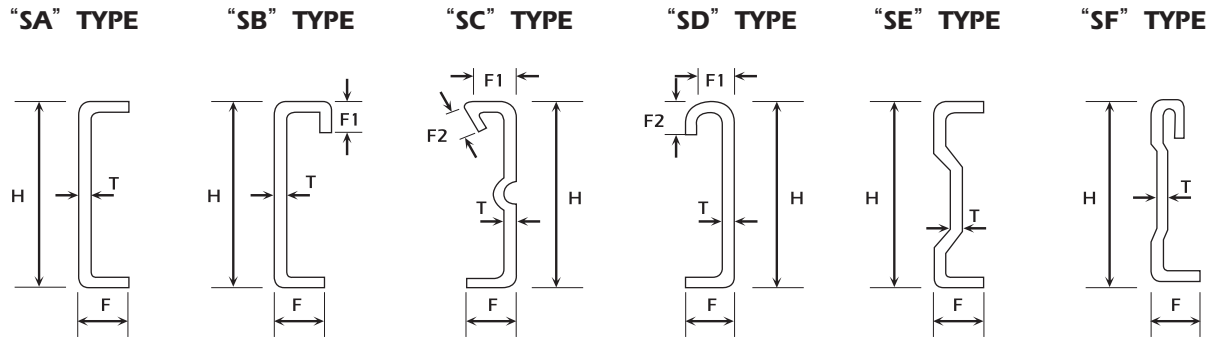


# CABLE TRAY SYSTEM



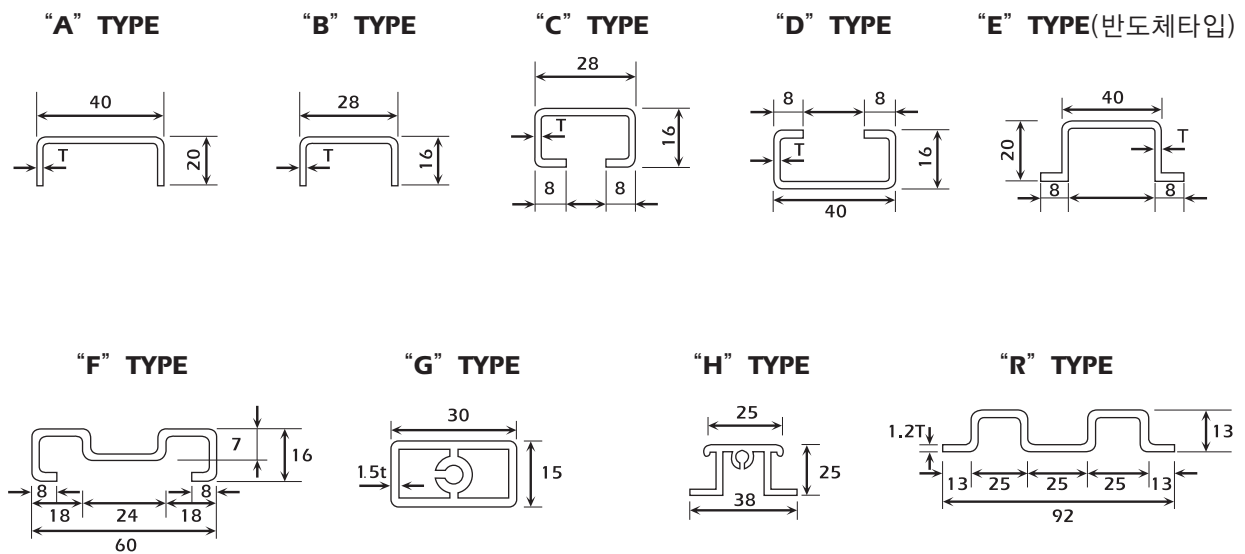
SIDE RAIL

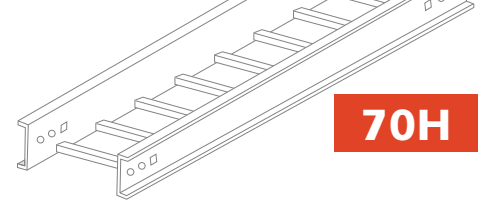
## SIDE RAIL



TYPE	SA							SB					SC		SD				SE	SF		
NO.	1	2	3	4	5	6	7	1	2	3	4	5	1	2	1	2	3	4	1	1	2	3
H	70	75	100	115	120	150	200	100	115	120	150	200	100	150	100	115	120	150	100	100	120	150
F	20			25	32						20	25	32	20	20	25	32	20	25			
F1				-				12					12	9.5				-	9.5			
F2				-				-					9.5	9.5				-	10			
T	2.0		2.3	2.6							2.0	2.3	2.6	2.0	2.3	2.0	2.3	2.6	2.0-2.6	2.0	2.3	

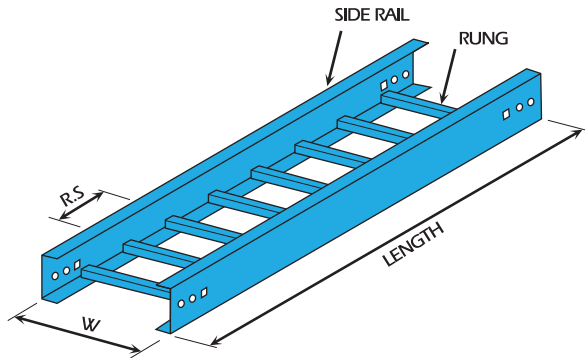
## TYPE OF RUNG



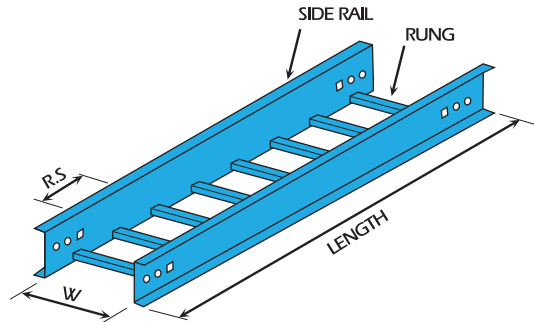


**70H**

## LADDER TYPE STRAIGHT



■ INSIDE SIDERAIL TYPE



■ OUTSIDE SIDERAIL TYPE

### ▶ NUMBERING SYSTEM

**LT - SA 07 - T20 - 2030**

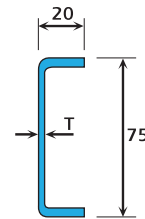


UNIT : mm

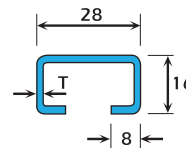
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LT-SA07-T20 - 2020	200	200
LT-SA07-T20 - 2030		300
LT-SA07-T20 - 3020	300	200
LT-SA07-T20 - 3030		300
LT-SA07-T20 - 4020	400	200
LT-SA07-T20 - 4030		300
LT-SA07-T20 - 5020	500	200
LT-SA07-T20 - 5030		300
LT-SA07-T20 - 6020	600	200
LT-SA07-T20 - 6030		300
LT-SA07-T20 - 7020	700	200
LT-SA07-T20 - 7030		300
LT-SA07-T20 - 8020	800	200
LT-SA07-T20 - 8030		300
LT-SA07-T20 - 9020	900	200
LT-SA07-T20 - 9030		300
LT-SA07-T20 - 0020	1000	200
LT-SA07-T20 - 0030		300

### TECHNICAL DATA

- Standard Materials : Hot Rolled Steel for General Structure (KS D 3501, SPHC)
- Standard Finishes : Hot Dip Galvanized
- Constructions : Electro ARC or CO<sub>2</sub> or TIG Welding
- Standard Length : 3000mm, MAX, 6000mm
- Options : Stainless Steel



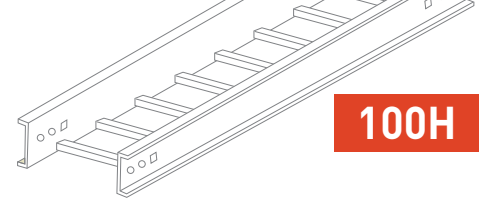
SIDE RAIL



RUNG

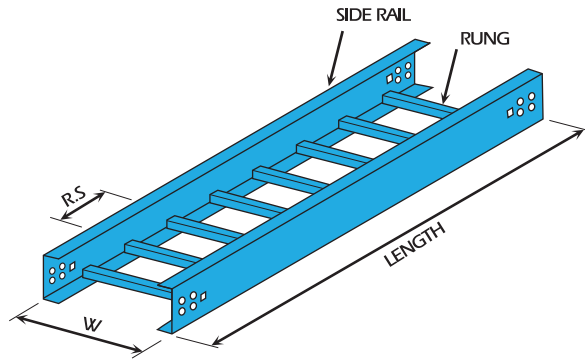
SIDE RAIL Thickness : 2.0t, 2.3t, 2.6t, 3.2t  
RUNG Thickness : 1.6t, 2.0t

# CABLE TRAY SYSTEM

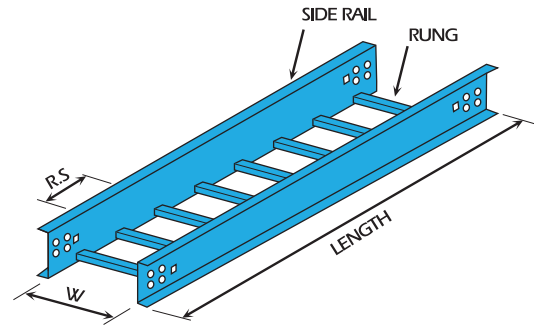


LADDER TYPE  
STRAIGHT

## LADDER TYPE STRAIGHT



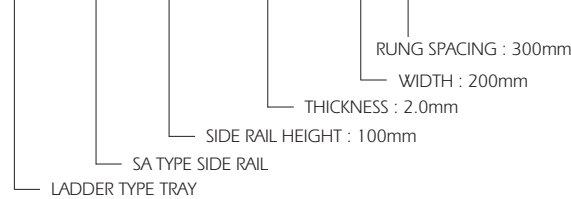
■ INSIDE SIDERAIL TYPE



■ OUTSIDE SIDERAIL TYPE

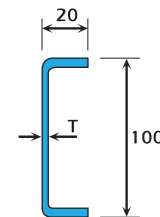
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**LT - SA 10 - T20 - 2030**

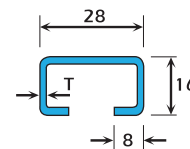


### TECHNICAL DATA

- Standard Materials : Hot Rolled Steel for General Structure (KS D 3501, SPHC)
- Standard Finishes : Hot Dip Galvanized
- Constructions : Electro ARC or CO<sub>2</sub> or TIG Welding
- Standard Length : 3000mm, MAX, 6000mm
- Options : Stainless Steel



SIDE RAIL



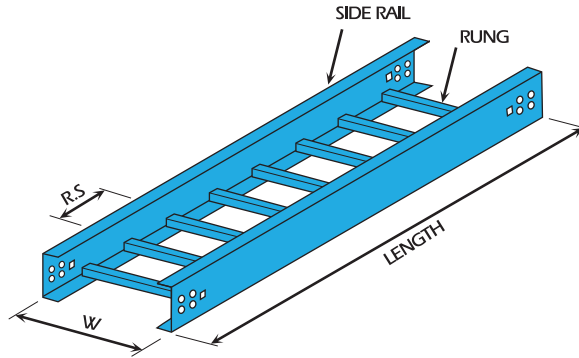
RUNG

SIDE RAIL Thickness : 2.0t, 2.3t, 2.6t, 3.2t  
RUNG Thickness : 1.6t, 2.0t

UNIT : mm

CATALOG NO.	W	R.S
LT-SA10-T20 - 2020	200	200
LT-SA10-T20 - 2030		300
LT-SA10-T20 - 3020	300	200
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LT-SA10-T20 - 5020	500	200
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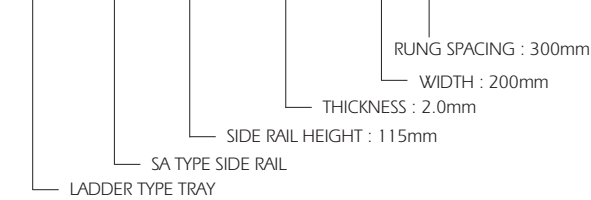
## LADDER TYPE STRAIGHT



■ INSIDE SIDERAIL TYPE

### ► NUMBERING SYSTEM

**LT - SA 11 - T20 - 2030**

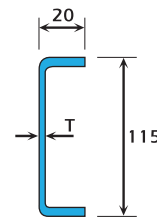


UNIT : mm

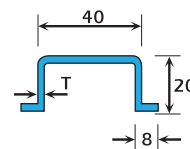
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LT-SA11-T20 - 8020	800	200
LT-SA11-T20 - 8030		300
LT-SA11-T20 - 9020	900	200
LT-SA11-T20 - 9030		300
LT-SA11-T20 - 0020	1000	200
LT-SA11-T20 - 0030		300

### TECHNICAL DATA

- Standard Materials : Hot Rolled Steel for General Structure (KS D 3501, SPHC)
- Standard Finishes : Hot Dip Galvanized
- Constructions : Electro ARC or CO<sub>2</sub> or TIG Welding
- Standard Length : 3000mm, MAX, 6000mm
- Options : Stainless Steel



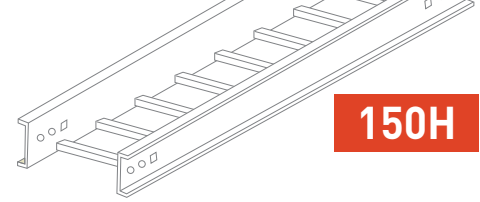
SIDE RAIL



RUNG

SIDE RAIL Thickness : 2.0t, 2.3t, 2.6t, 3.2t  
RUNG Thickness : 1.6t, 2.0t

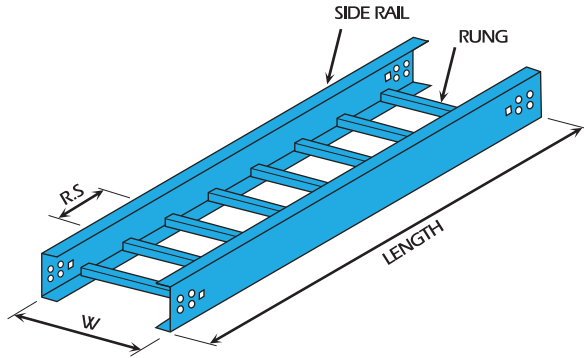
# CABLE TRAY SYSTEM



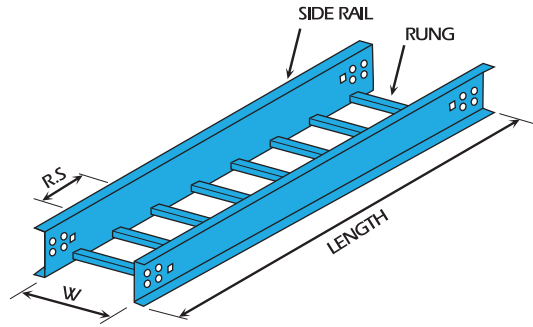
150H

LADDER TYPE  
STRAIGHT

## LADDER TYPE STRAIGHT



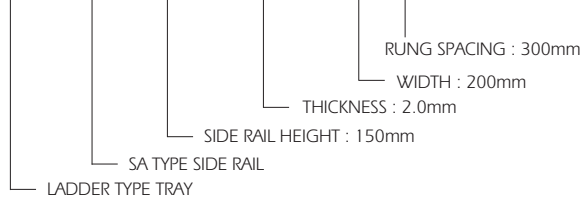
■ INSIDE SIDERAIL TYPE



■ OUTSIDE SIDERAIL TYPE

### ▶ NUMBERING SYSTEM

**LT - SA 15 - T20 - 2030**

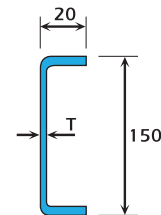


UNIT : mm

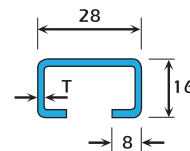
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LT-SA15-T20 - 3020	300	200
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LT-SA15-T20 - 6030		300
LT-SA15-T20 - 7020	700	200
LT-SA15-T20 - 7030		300
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LT-SA15-T20 - 8030		300
LT-SA15-T20 - 9020	900	200
LT-SA15-T20 - 9030		300
LT-SA15-T20 - 0020	1000	200
LT-SA15-T20 - 0030		300

### TECHNICAL DATA

- Standard Materials : Hot Rolled Steel for General Structure (KS D 3501, SPHC)
- Standard Finishes : Hot Dip Galvanized
- Constructions : Electro ARC or CO<sub>2</sub> or TIG Welding
- Standard Length : 3000mm, MAX, 6000mm
- Options : Stainless Steel



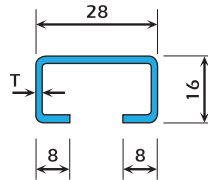
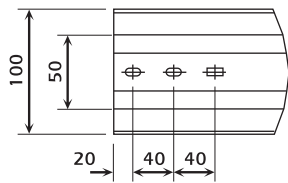
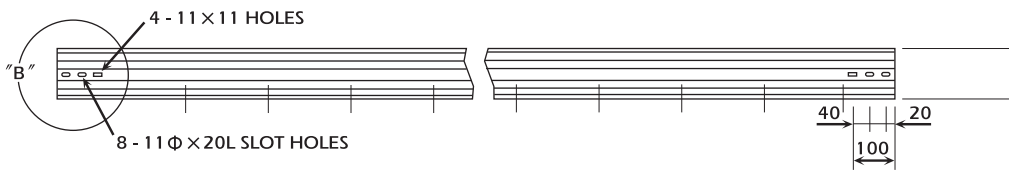
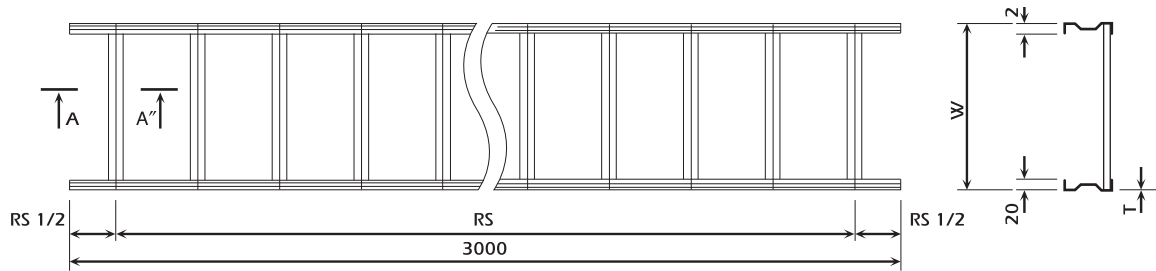
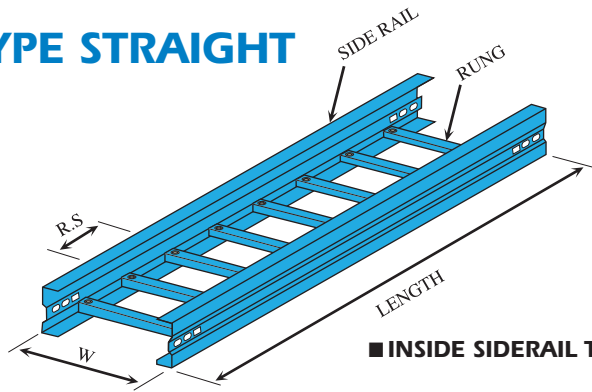
SIDE RAIL



RUNG

SIDE RAIL Thickness : 2.0t, 2.3t, 2.6t, 3.2t  
RUNG Thickness : 1.6t, 2.0t

**LADDER TYPE STRAIGHT**



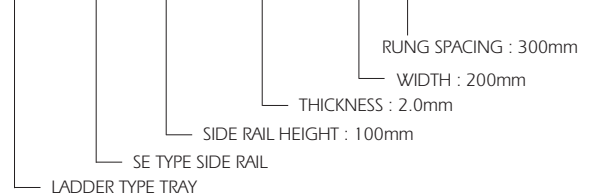
**MATERIAL : HOT ROLLED STEEL FOR GENERAL STRUCTURAL (KS D 3501, SPHC)**  
**FINISH : HOT DIP GALVANIZED (KS D 8308)**

UNIT : mm

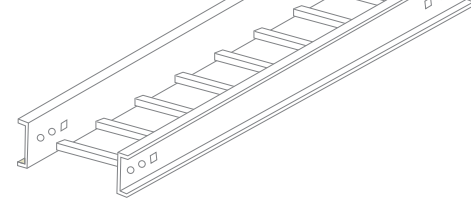
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LT-SE10-T20 - 2020	200	200
LT-SE10-T20 - 2030		300
LT-SE10-T20 - 3020	300	200
LT-SE10-T20 - 3030		300
LT-SE10-T20 - 4020	400	200
LT-SE10-T20 - 4030		300
LT-SE10-T20 - 5020	500	200
LT-SE10-T20 - 5030		300
LT-SE10-T20 - 6020	600	200
LT-SE10-T20 - 6030		300
LT-SE10-T20 - 7020	700	200
LT-SE10-T20 - 7030		300
LT-SE10-T20 - 8020	800	200
LT-SE10-T20 - 8030		300
LT-SE10-T20 - 9020	900	200
LT-SE10-T20 - 9030		300
LT-SE10-T20 - 0020	1000	200
LT-SE10-T20 - 0030		300

**NUMBERING SYSTEM**

**LT - SE 10 - T20 - 2030**

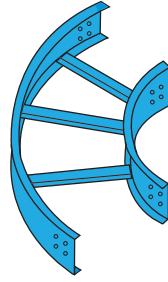


# CABLE TRAY SYSTEM



FITTING

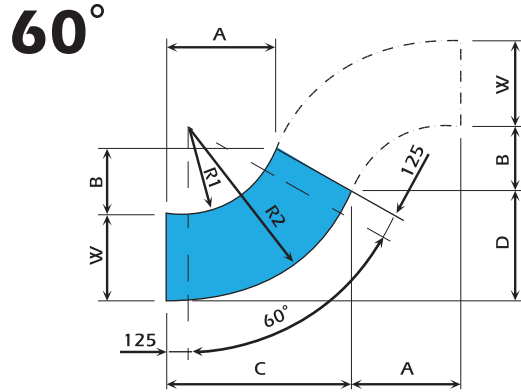
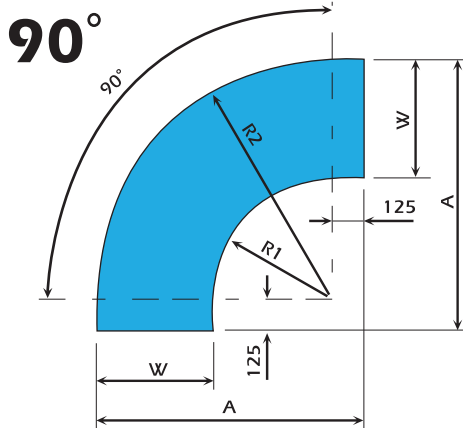
## FITTING HORIZONTAL ELBOW



## ▶ NUMBERING SYSTEM

### LTHE - 90 - 2030

RADIUS : 300mm  
 WIDTH : 200mm  
 DEGREE : 90° (60°, 45°, 30°)  
 LADDER TYPE HORIZONTAL ELBOW



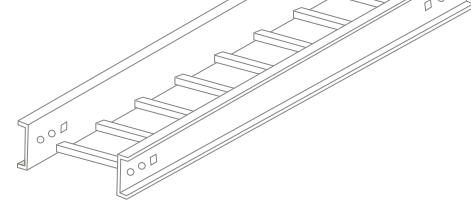
UNIT : mm

UNIT : mm

CATALOG NO.	W	R1	R2	A
LTHE-90 - 2030	200	300	500	625
LTHE-90 - 2060		600	800	925
LTHE-90 - 2090		900	1100	1225
LTHE-90 - 3030	300	300	600	725
LTHE-90 - 3060		600	900	1025
LTHE-90 - 3090		900	1200	1325
LTHE-90 - 4030	400	300	700	825
LTHE-90 - 4060		600	1000	1125
LTHE-90 - 4090		900	1300	1425
LTHE-90 - 5030	500	300	800	925
LTHE-90 - 5060		600	1100	1225
LTHE-90 - 5090		900	1400	1525
LTHE-90 - 6030	600	300	900	1025
LTHE-90 - 6060		600	1200	1325
LTHE-90 - 6090		900	1500	1625
LTHE-90 - 7030	700	300	1000	1125
LTHE-90 - 7060		600	1300	1425
LTHE-90 - 7090		900	1600	1725
LTHE-90 - 8030	800	300	1100	1225
LTHE-90 - 8060		600	1400	1525
LTHE-90 - 8090		900	1700	1825
LTHE-90 - 9030	900	300	1200	1325
LTHE-90 - 9060		600	1500	1625
LTHE-90 - 9090		900	1800	1925
LTHE-90 - 0030	1000	300	1300	1425
LTHE-90 - 0060		600	1600	1725
LTHE-90 - 0090		900	1900	2025

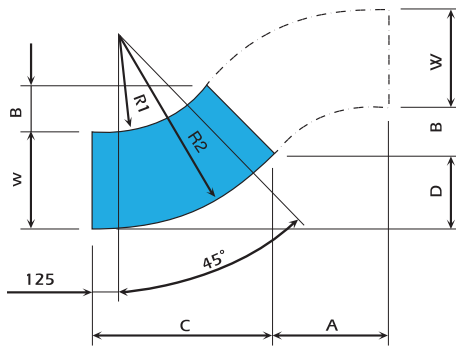
CATALOG NO.	W	R1	R2	A	B	C	D
LTHE-60 - 2030	200	300	500	447	258	621	359
LTHE-60 - 2060		600	800	707	408	881	509
LTHE-60 - 2090		900	1100	967	558	1141	659
LTHE-60 - 3030	300	300	600	447	258	708	409
LTHE-60 - 3060		600	900	707	408	967	559
LTHE-60 - 3090		900	1200	967	558	1227	709
LTHE-60 - 4030	400	300	700	447	258	794	459
LTHE-60 - 4060		600	1000	707	408	1054	609
LTHE-60 - 4090		900	1300	967	558	1314	759
LTHE-60 - 5030	500	300	800	447	258	881	509
LTHE-60 - 5060		600	1100	707	408	1141	657
LTHE-60 - 5090		900	1400	967	558	1400	809
LTHE-60 - 6030	600	300	900	447	258	967	559
LTHE-60 - 6060		600	1200	707	408	1227	709
LTHE-60 - 6090		900	1500	967	558	1487	859
LTHE-60 - 7030	700	300	1000	447	258	1054	609
LTHE-60 - 7060		600	1300	707	408	1314	759
LTHE-60 - 7090		900	1600	967	558	1574	909
LTHE-60 - 8030	800	300	1100	447	258	1141	659
LTHE-60 - 8060		600	1400	707	408	1400	809
LTHE-60 - 8090		900	1700	967	558	1660	959
LTHE-60 - 9030	900	300	1200	447	258	1227	709
LTHE-60 - 9060		600	1500	707	408	1487	859
LTHE-60 - 9090		900	1800	967	558	1747	1009
LTHE-60 - 0030	1000	300	1300	447	258	1314	759
LTHE-60 - 0060		600	1600	707	408	1574	909
LTHE-60 - 0090		900	1900	967	558	1833	1059



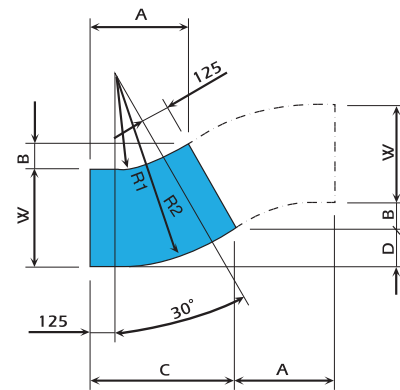


## FITTING HORIZONTAL ELBOW

### 45°



### 30°



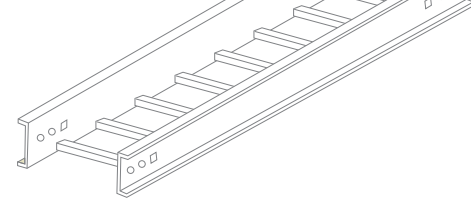
UNIT : mm

CATALOG NO.	W	R1	R2	A	B	C	D
LTHE-45 - 2030	200	300	500	426	176	567	235
LTHE-45 - 2060		600	800	638	264	779	323
LTHE-45 - 2090		900	1100	850	352	991	411
LTHE-45 - 3030	300	300	600	426	176	638	264
LTHE-45 - 3060		600	900	638	264	850	352
LTHE-45 - 3090		900	1200	850	352	1062	440
LTHE-45 - 4030	400	300	700	426	176	708	293
LTHE-45 - 4060		600	1000	638	264	921	381
LTHE-45 - 4090		900	1300	850	352	1133	469
LTHE-45 - 5030	500	300	800	426	176	779	323
LTHE-45 - 5060		600	1100	638	264	991	411
LTHE-45 - 5090		900	1400	850	352	1203	498
LTHE-45 - 6030	600	300	900	426	176	850	352
LTHE-45 - 6060		600	1200	638	264	1063	440
LTHE-45 - 6090		900	1500	850	352	1274	528
LTHE-45 - 7030	700	300	1000	426	176	920	381
LTHE-45 - 7060		600	1300	638	264	1133	469
LTHE-45 - 7090		900	1600	850	352	1345	557
LTHE-45 - 8030	800	300	1100	426	176	991	411
LTHE-45 - 8060		600	1400	638	264	1204	498
LTHE-45 - 8090		900	1700	850	352	1416	586
LTHE-45 - 9030	900	300	1200	426	176	1062	440
LTHE-45 - 9060		600	1500	638	264	1275	528
LTHE-45 - 9090		900	1800	850	352	1486	616
LTHE-45 - 0030	1000	300	1300	426	176	1133	469
LTHE-45 - 0060		600	1600	638	264	1345	557
LTHE-45 - 0090		900	1900	850	352	1557	645

UNIT : mm

CATALOG NO.	W	R1	R2	A	B	C	D
LTHE-30 - 2030	200	300	500	385	104	485	131
LTHE-30 - 2060		600	800	535	144	635	171
LTHE-30 - 2090		900	1100	685	184	785	211
LTHE-30 - 3030	300	300	600	385	104	535	144
LTHE-30 - 3060		600	900	535	144	685	184
LTHE-30 - 3090		900	1200	685	184	835	224
LTHE-30 - 4030	400	300	700	385	104	585	157
LTHE-30 - 4060		600	1000	535	144	735	198
LTHE-30 - 4090		900	1300	685	184	885	238
LTHE-30 - 5030	500	300	800	385	104	635	171
LTHE-30 - 5060		600	1100	535	144	785	211
LTHE-30 - 5090		900	1400	685	184	935	251
LTHE-30 - 6030	600	300	900	385	104	685	184
LTHE-30 - 6060		600	1200	535	144	835	224
LTHE-30 - 6090		900	1500	685	184	985	265
LTHE-30 - 7030	700	300	1000	385	104	735	198
LTHE-30 - 7060		600	1300	535	144	885	238
LTHE-30 - 7090		900	1600	685	184	1035	278
LTHE-30 - 8030	800	300	1100	385	104	785	211
LTHE-30 - 8060		600	1400	535	144	935	251
LTHE-30 - 8090		900	1700	685	184	1086	291
LTHE-30 - 9030	900	300	1200	385	104	835	224
LTHE-30 - 9060		600	1500	535	144	985	265
LTHE-30 - 9090		900	1800	685	184	1135	305
LTHE-30 - 0030	1000	300	1300	385	104	885	238
LTHE-30 - 0060		600	1600	535	144	1035	278
LTHE-30 - 0090		900	1900	685	184	1185	318

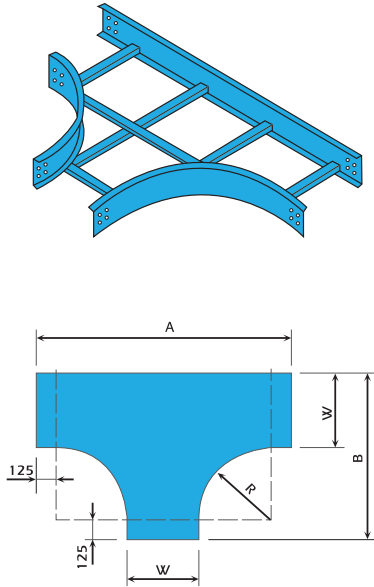
# CABLE TRAY SYSTEM



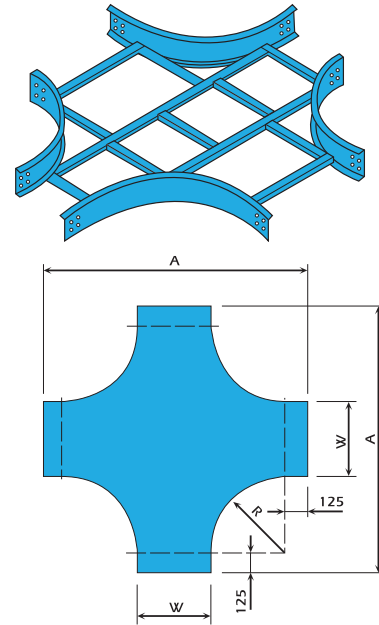
FITTING

## FITTING

### HORIZONTAL ELBOW



### HORIZONTAL CROSS



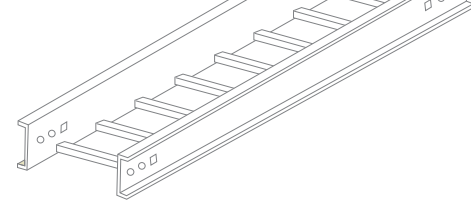
UNIT : mm

CATALOG NO.	W	R	A	B
LTHT - 2030	200	300	1050	625
LTHT - 2060		600	1650	925
LTHT - 2090		900	2250	1225
LTHT - 3030	300	300	1150	725
LTHT - 3060		600	1750	1025
LTHT - 3090		900	2350	1325
LTHT - 4030	400	300	1250	825
LTHT - 4060		600	1850	1125
LTHT - 4090		900	2450	1425
LTHT - 5030	500	300	1350	925
LTHT - 5060		600	1950	1225
LTHT - 5090		900	2550	1525
LTHT - 6030	600	300	1450	1025
LTHT - 6060		600	2050	1325
LTHT - 6090		900	2650	1625
LTHT - 7030	700	300	1550	1125
LTHT - 7060		600	2150	1425
LTHT - 7090		900	2750	1725
LTHT - 8030	800	300	1650	1225
LTHT - 8060		600	2250	1525
LTHT - 8090		900	2850	1825
LTHT - 9030	900	300	1750	1325
LTHT - 9060		600	2350	1625
LTHT - 9090		900	2950	1925
LTHT - 0030	1000	300	1850	1425
LTHT - 0060		600	2450	1725
LTHT - 0090		900	3050	2025

UNIT : mm

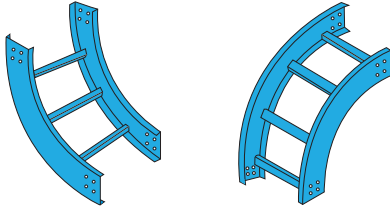
CATALOG NO.	W	R	A
LTHC - 2030	200	300	1050
LTHC - 2060		600	1650
LTHC - 2090		900	2250
LTHC - 3030	300	300	1150
LTHC - 3060		600	1750
LTHC - 3090		900	2350
LTHC - 4030	400	300	1250
LTHC - 4060		600	1850
LTHC - 4090		900	2450
LTHC - 5030	500	300	1350
LTHC - 5060		600	1950
LTHC - 5090		900	2550
LTHC - 6030	600	300	1450
LTHC - 6060		600	2050
LTHC - 6090		900	2650
LTHC - 7030	700	300	1550
LTHC - 7060		600	2150
LTHC - 7090		900	2750
LTHC - 8030	800	300	1650
LTHC - 8060		600	2250
LTHC - 8090		900	2850
LTHC - 9030	900	300	1750
LTHC - 9060		600	2350
LTHC - 9090		900	2950
LTHC - 0030	1000	300	1850
LTHC - 0060		600	2450
LTHC - 0090		900	3050

# CABLE TRAY SYSTEM

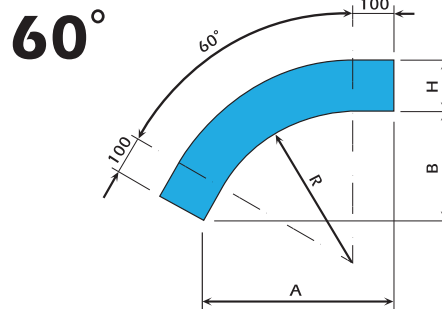
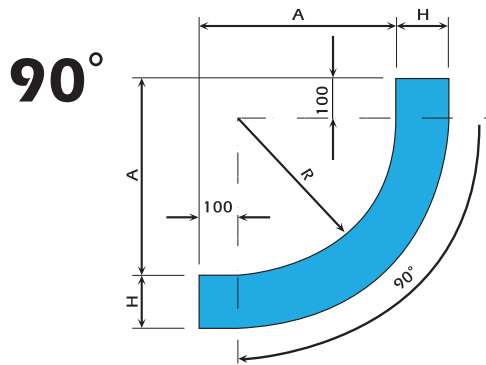


## FITTING

### VERTICAL ELBOW



■ INSIDE TYPE ■ OUTSIDE TYPE



## NUMBERING SYSTEM

### LTVO - 90 - 2030

RADIUS : 300mm  
 WIDTH : 200mm  
 DEGREE : (90°, 60°, 45°, 30°)  
 LADDER TYPE VERTICAL OUTSIDE ELBOW (LTVO)  
 LADDER TYPE VERTICAL INSIDE ELBOW (LTVI)

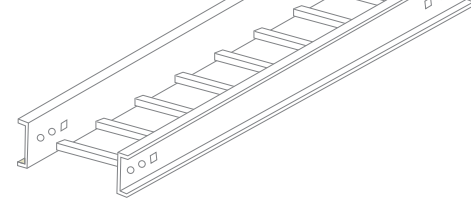
UNIT : mm

CATALOG NO.		W	R	D
INSIDE	OUTSIDE			
LTVI-90 - 2030	LTVO-90 - 2030	200	300	400
LTVI-90 - 2060	LTVO-90 - 2060		600	700
LTVI-90 - 2090	LTVO-90 - 2090		900	1000
LTVI-90 - 3030	LTVO-90 - 3030	300	300	400
LTVI-90 - 3060	LTVO-90 - 3060		600	700
LTVI-90 - 3090	LTVO-90 - 3090		900	1000
LTVI-90 - 4030	LTVO-90 - 4030	400	300	400
LTVI-90 - 4060	LTVO-90 - 4060		600	700
LTVI-90 - 4090	LTVO-90 - 4090		900	1000
LTVI-90 - 5030	LTVO-90 - 5030	500	300	400
LTVI-90 - 5060	LTVO-90 - 5060		600	700
LTVI-90 - 5090	LTVO-90 - 5090		900	1000
LTVI-90 - 6030	LTVO-90 - 6030	600	300	400
LTVI-90 - 6060	LTVO-90 - 6060		600	700
LTVI-90 - 6090	LTVO-90 - 6090		900	1000
LTVI-90 - 7030	LTVO-90 - 7030	700	300	400
LTVI-90 - 7060	LTVO-90 - 7060		600	700
LTVI-90 - 7090	LTVO-90 - 7090		900	1000
LTVI-90 - 8030	LTVO-90 - 8030	800	300	400
LTVI-90 - 8060	LTVO-90 - 8060		600	700
LTVI-90 - 8090	LTVO-90 - 8090		900	1000
LTVI-90 - 9030	LTVO-90 - 9030	900	300	400
LTVI-90 - 9060	LTVO-90 - 9060		600	700
LTVI-90 - 9090	LTVO-90 - 9090		900	1000
LTVI-90 - 0030	LTVO-90 - 0030	1000	300	400
LTVI-90 - 0060	LTVO-90 - 0060		600	700
LTVI-90 - 0090	LTVO-90 - 0090		900	1000

UNIT : mm

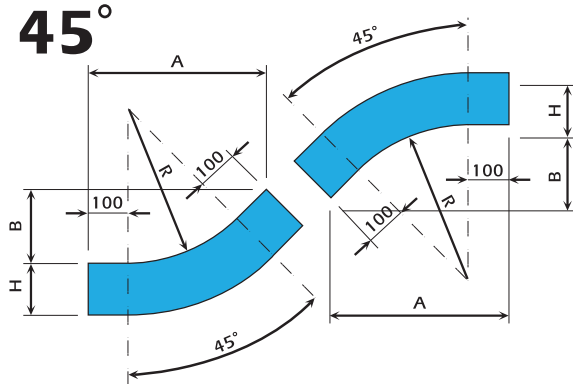
CATALOG NO.		W	R	A	B
INSIDE	OUTSIDE				
LTVI-60 - 2030	LTVO-60 - 2030	200	300	410	236
LTVI-60 - 2060	LTVO-60 - 2060		600	670	386
LTVI-60 - 2090	LTVO-60 - 2090		900	930	536
LTVI-60 - 3030	LTVO-60 - 3030	300	300	410	236
LTVI-60 - 3060	LTVO-60 - 3060		600	670	386
LTVI-60 - 3090	LTVO-60 - 3090		900	930	536
LTVI-60 - 4030	LTVO-60 - 4030	400	300	410	236
LTVI-60 - 4060	LTVO-60 - 4060		600	670	386
LTVI-60 - 4090	LTVO-60 - 4090		900	930	536
LTVI-60 - 5030	LTVO-60 - 5030	500	300	410	236
LTVI-60 - 5060	LTVO-60 - 5060		600	670	386
LTVI-60 - 5090	LTVO-60 - 5090		900	930	536
LTVI-60 - 6030	LTVO-60 - 6030	600	300	410	236
LTVI-60 - 6060	LTVO-60 - 6060		600	670	386
LTVI-60 - 6090	LTVO-60 - 6090		900	930	536
LTVI-60 - 7030	LTVO-60 - 7030	700	300	410	236
LTVI-60 - 7060	LTVO-60 - 7060		600	670	386
LTVI-60 - 7090	LTVO-60 - 7090		900	930	536
LTVI-60 - 8030	LTVO-60 - 8030	800	300	10	236
LTVI-60 - 8060	LTVO-60 - 8060		600	670	386
LTVI-60 - 8090	LTVO-60 - 8090		900	930	536
LTVI-60 - 9030	LTVO-60 - 9030	900	300	410	236
LTVI-60 - 9060	LTVO-60 - 9060		600	670	386
LTVI-60 - 9090	LTVO-60 - 9090		900	930	536
LTVI-60 - 0030	LTVO-60 - 0030	1000	300	410	236
LTVI-60 - 0060	LTVO-60 - 0060		600	670	386
LTVI-60 - 0090	LTVO-60 - 0090		900	930	536

# CABLE TRAY SYSTEM



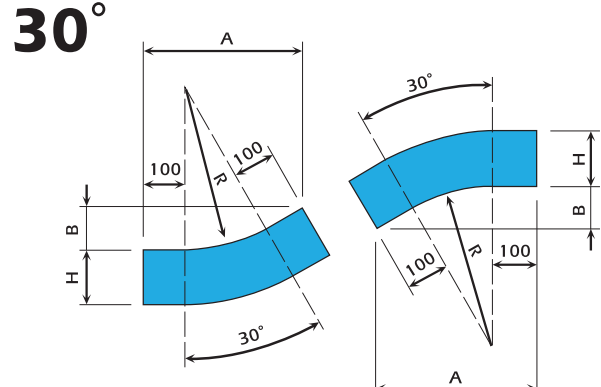
FITTING

## FITTING VERTICAL ELBOW



■ INSIDE TYPE

■ OUTSIDE TYPE



■ INSIDE TYPE

■ OUTSIDE TYPE

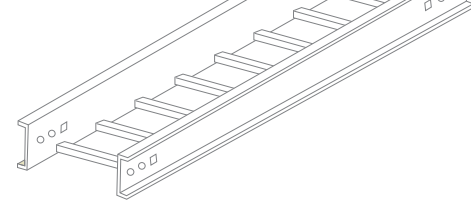
UNIT : mm

CATALOG NO.		W	R	A	B
INSIDE	OUTSIDE				
LTVI-45 - 2030	LTVO-45 - 2030	200	300	383	158
LTVI-45 - 2060	LTVO-45 - 2060		600	595	246
LTVI-45 - 2090	LTVO-45 - 2090		900	808	334
LTVI-45 - 3030	LTVO-45 - 3030	300	300	383	158
LTVI-45 - 3060	LTVO-45 - 3060		600	595	246
LTVI-45 - 3090	LTVO-45 - 3090		900	808	334
LTVI-45 - 4030	LTVO-45 - 4030	400	300	383	158
LTVI-45 - 4060	LTVO-45 - 4060		600	595	246
LTVI-45 - 4090	LTVO-45 - 4090		900	808	334
LTVI-45 - 5030	LTVO-45 - 5030	500	300	383	158
LTVI-45 - 5060	LTVO-45 - 5060		600	595	246
LTVI-45 - 5090	LTVO-45 - 5090		900	808	334
LTVI-45 - 6030	LTVO-45 - 6030	600	300	383	158
LTVI-45 - 6060	LTVO-45 - 6060		600	595	246
LTVI-45 - 6090	LTVO-45 - 6090		900	808	334
LTVI-45 - 7030	LTVO-45 - 7030	700	300	383	158
LTVI-45 - 7060	LTVO-45 - 7060		600	595	246
LTVI-45 - 7090	LTVO-45 - 7090		900	808	334
LTVI-45 - 8030	LTVO-45 - 8030	800	300	383	158
LTVI-45 - 8060	LTVO-45 - 8060		600	595	246
LTVI-45 - 8090	LTVO-45 - 8090		900	808	334
LTVI-45 - 9030	LTVO-45 - 9030	900	300	383	158
LTVI-45 - 9060	LTVO-45 - 9060		600	595	246
LTVI-45 - 9090	LTVO-45 - 9090		900	808	334
LTVI-45 - 0030	LTVO-45 - 0030	1000	300	383	158
LTVI-45 - 0060	LTVO-45 - 0060		600	595	246
LTVI-45 - 0090	LTVO-45 - 0090		900	808	334

UNIT : mm

CATALOG NO.		W	R	A	B
INSIDE	OUTSIDE				
LTVI-30 - 2030	LTVO-30 - 2030	200	300	337	90
LTVI-30 - 2060	LTVO-30 - 2060		600	487	130
LTVI-30 - 2090	LTVO-30 - 2090		900	637	170
LTVI-30 - 3030	LTVO-30 - 3030	300	300	337	90
LTVI-30 - 3060	LTVO-30 - 3060		600	487	130
LTVI-30 - 3090	LTVO-30 - 3090		900	637	170
LTVI-30 - 4030	LTVO-30 - 4030	400	300	337	90
LTVI-30 - 4060	LTVO-30 - 4060		600	487	130
LTVI-30 - 4090	LTVO-30 - 4090		900	637	170
LTVI-30 - 5030	LTVO-30 - 5030	500	300	337	90
LTVI-30 - 5060	LTVO-30 - 5060		600	487	130
LTVI-30 - 5090	LTVO-30 - 5090		900	637	170
LTVI-30 - 6030	LTVO-30 - 6030	600	300	337	90
LTVI-30 - 6060	LTVO-30 - 6060		600	487	130
LTVI-30 - 6090	LTVO-30 - 6090		900	637	170
LTVI-30 - 7030	LTVO-30 - 7030	700	300	337	90
LTVI-30 - 7060	LTVO-30 - 7060		600	487	130
LTVI-30 - 7090	LTVO-30 - 7090		900	637	170
LTVI-30 - 8030	LTVO-30 - 8030	800	300	337	90
LTVI-30 - 8060	LTVO-30 - 8060		600	487	130
LTVI-30 - 8090	LTVO-30 - 8090		900	637	170
LTVI-30 - 9030	LTVO-30 - 9030	900	300	337	90
LTVI-30 - 9060	LTVO-30 - 9060		600	487	130
LTVI-30 - 9090	LTVO-30 - 9090		900	637	170
LTVI-30 - 0030	LTVO-30 - 0030	1000	300	337	90
LTVI-30 - 0060	LTVO-30 - 0060		600	487	130
LTVI-30 - 0090	LTVO-30 - 0090		900	637	170

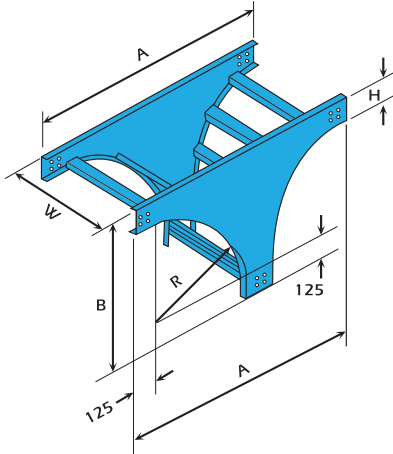
# CABLE TRAY SYSTEM



FITTING

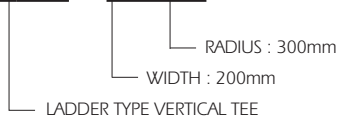
## FITTING

### VERTICAL TEE(DOWN)

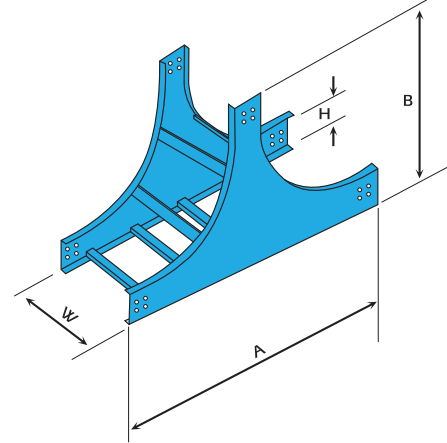


### ► NUMBERING SYSTEM

#### LTVT - 2030

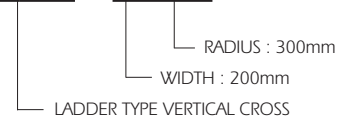


### VERTICAL TEE(UP)



### ► NUMBERING SYSTEM

#### LTVC - 2030



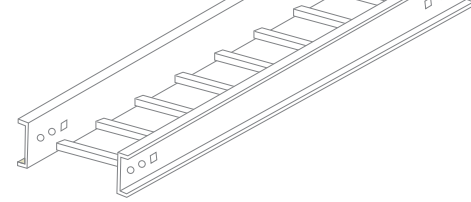
UNIT : mm

CATALOG NO.	A	B
LTVT - 2030	850+H	425+H
LTVT - 2060	1450+H	725+H
LTVT - 2090	2050+H	1025+H
LTVT - 3030	850+H	425+H
LTVT - 3060	1450+H	725+H
LTVT - 3090	2050+H	1025+H
LTVT - 4030	850+H	425+H
LTVT - 4060	1450+H	725+H
LTVT - 4090	2050+H	1025+H
LTVT - 5030	850+H	425+H
LTVT - 5060	1450+H	725+H
LTVT - 5090	2050+H	1025+H
LTVT - 6030	850+H	425+H
LTVT - 6060	1450+H	725+H
LTVT - 6090	2050+H	1025+H
LTVT - 7030	850+H	425+H
LTVT - 7060	1450+H	725+H
LTVT - 7090	2050+H	1025+H
LTVT - 8030	850+H	425+H
LTVT - 8060	1450+H	725+H
LTVT - 8090	2050+H	1025+H
LTVT - 9030	850+H	425+H
LTVT - 9060	1450+H	725+H
LTVT - 9090	2050+H	1025+H
LTVT - 0030	850+H	425+H
LTVT - 0060	1450+H	725+H
LTVT - 0090	2050+H	1025+H

W	R
200	300
	600
	900
300	300
	600
	900
400	300
	600
	900
500	300
	600
	900
600	300
	600
	900
700	300
	600
	900
800	300
	600
	900
900	300
	600
	900
1000	300
	600
	900

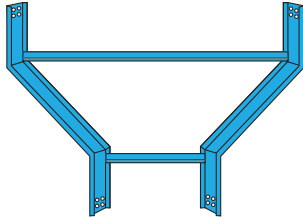
CATALOG NO.	A
LTVC - 2030	850+H
LTVC - 2060	1450+H
LTVC - 2090	2050+H
LTVC - 3030	850+H
LTVC - 3060	1450+H
LTVC - 3090	2050+H
LTVC - 4030	850+H
LTVC - 4060	1450+H
LTVC - 4090	2050+H
LTVC - 5030	850+H
LTVC - 5060	1450+H
LTVC - 5090	2050+H
LTVC - 6030	850+H
LTVC - 6060	1450+H
LTVC - 6090	2050+H
LTVC - 7030	850+H
LTVC - 7060	1450+H
LTVC - 7090	2050+H
LTVC - 8030	850+H
LTVC - 8060	1450+H
LTVC - 8090	2050+H
LTVC - 9030	850+H
LTVC - 9060	1450+H
LTVC - 9090	2050+H
LTVC - 0030	850+H
LTVC - 0060	1450+H
LTVC - 0090	2050+H

# CABLE TRAY SYSTEM

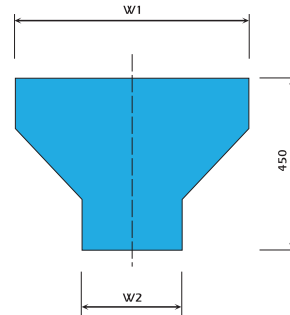


## REDUCER FITTING

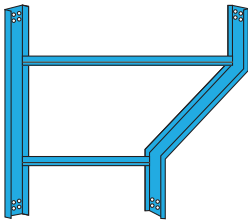
### STRAIGHT REDUCER



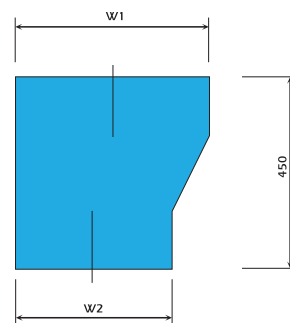
#### STRAIGHT REDUCER



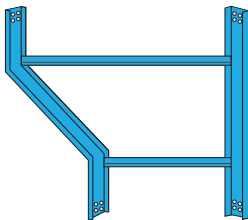
### RIGHT REDUCER



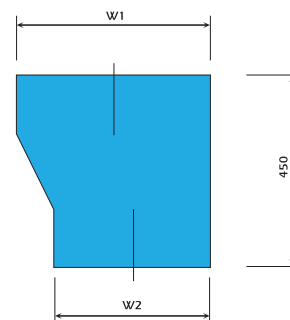
#### RIGHT REDUCER



### LEFT REDUCER



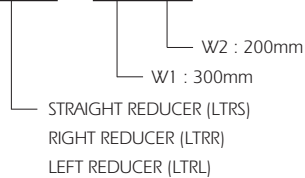
#### LEFT REDUCER



UNIT : mm

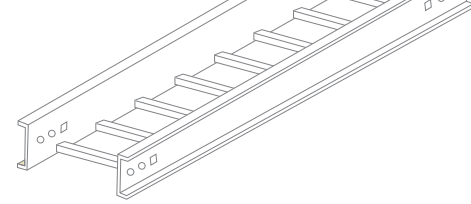
## NUMBERING SYSTEM

### LTRS - 3020



CATALOG NO.			W1	W2
STRAIGHT	RIGHT	LEFT		
LTRS - 3020	LRR - 3020	LRL - 3020	300	200
LTRS - 4020	LRR - 4020	LRL - 4020	400	200
LTRS - 4030	LRR - 4030	LRL - 4030	400	300
LTRS - 5030	LRR - 5030	LRL - 5030	500	300
LTRS - 5040	LRR - 5040	LRL - 5040	500	400
LTRS - 6030	LRR - 6030	LRL - 6030	600	300
LTRS - 6040	LRR - 6040	LRL - 6040	600	400
LTRS - 7030	LRR - 7030	LRL - 7030	700	300
LTRS - 7060	LRR - 7060	LRL - 7060	700	600
LTRS - 8030	LRR - 8030	LRL - 8030	800	300
LTRS - 8060	LRR - 8060	LRL - 8060	800	600
LTRS - 9030	LRR - 9030	LRL - 9030	900	300
LTRS - 9060	LRR - 9060	LRL - 9060	900	600
LTRS - 0030	LRR - 0030	LRL - 0030	1000	300
LTRS - 0060	LRR - 0060	LRL - 0060	1000	600

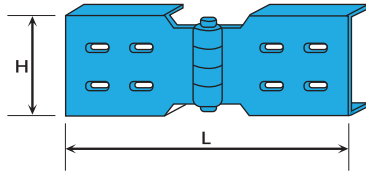
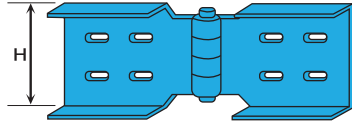
# CABLE TRAY SYSTEM



CONNECTOR

## CONNECTOR ADJUSTABLE HORIZONTAL

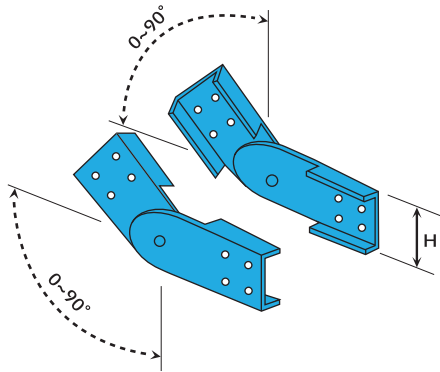
UNIT : mm



CATALOG NO.	H
LTAH - 070	70
LTAH - 100	100
LTAH - 150	150

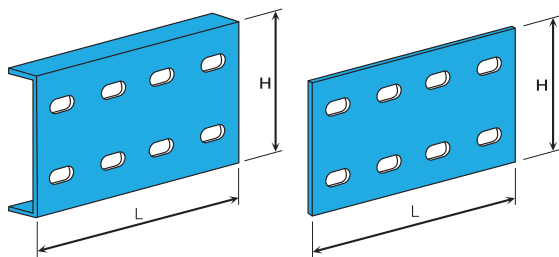
## ADJUSTABLE RISER CONNECTOR

UNIT : mm

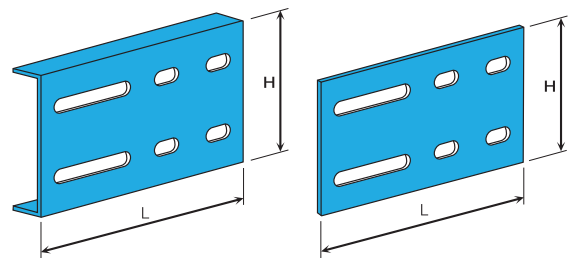


CATALOG NO.	H
LTAR - 070	70
LTAR - 100	100
LTAR - 150	150

## JOINT CONNECTOR



## EXPANSION CONNECTOR



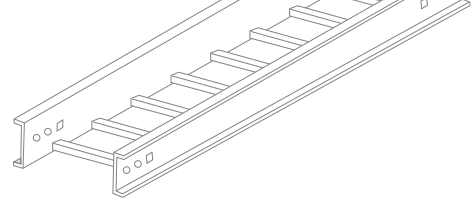
UNIT : mm

CATALOG NO.	H	CATALOG NO.	H
LTJC - 070	70	LTJI - 070	70
LTJC - 100	100	LTJI - 100	100
LTJC - 150	150	LTJI - 150	150

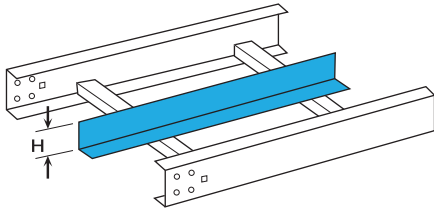
UNIT : mm

CATALOG NO.	H	CATALOG NO.	H
LTEJ - 070	70	LTEI - 070	70
LTEJ - 100	100	LTEI - 100	100
LTEJ - 150	150	LTEI - 150	150

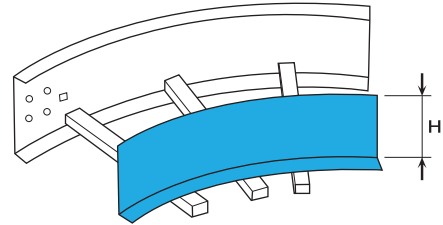
# CABLE TRAY SYSTEM



## SEPARATOR STRAIGHT SEPARATOR



## HORIZONTAL ELBOW



### ► NUMBERING SYSTEM

#### LTSS - 0070

SIDE RAIL(H) : 70mm  
 LADDER SEPARATOR STRAIGHT (LTSS)  
 LADDER SEPARATOR HORIZONTAL (LTSH)  
 LADDER SEPARATOR VERTICAL INSIDE (LTSI)  
 LADDER SEPARATOR VERTICAL OUTSIDE (LTSO)

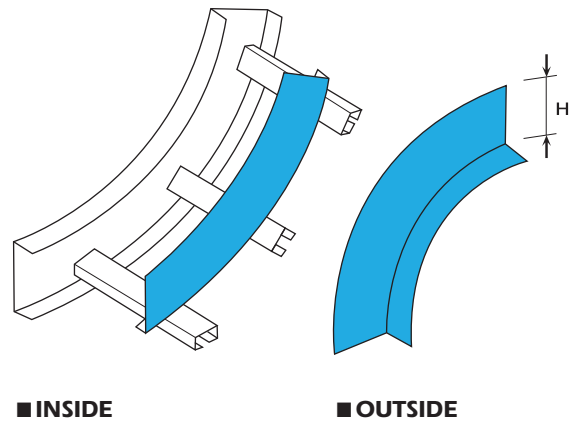
UNIT : mm

CATALOG NO.	CATALOG NO.	SIDERAIL (H)	DEPTH (h)
LTSS - 0070	LTSH - 0070	70	40
LTSS - 0100	LTSH - 0100	100	70
LTSS - 0150	LTSH - 0150	150	120

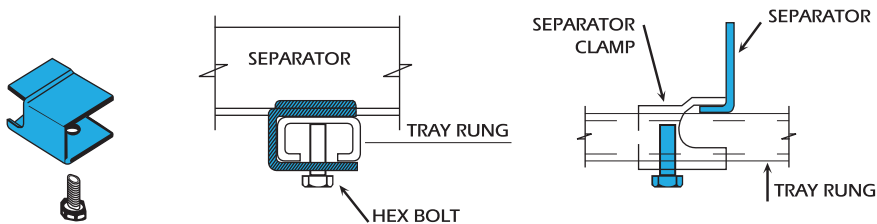
## VERTICAL ELBOW SEPARATOR

UNIT : mm

CATALOG NO.		DEGREE	R
INSIDE	OUTSIDE		
LTSI - 0070	LTSO - 0070	90°	300
LTSI - 0100	LTSO - 0100		600
LTSI - 0150	LTSO - 0150		900
LTSI - 0070	LTSO - 0070	60°	300
LTSI - 0100	LTSO - 0100		600
LTSI - 0150	LTSO - 0150		900
LTSI - 0070	LTSO - 0070	45°	300
LTSI - 0100	LTSO - 0100		600
LTSI - 0150	LTSO - 0150		900
LTSI - 0070	LTSO - 0070	30°	300
LTSI - 0100	LTSO - 0100		600
LTSI - 0150	LTSO - 0150		900

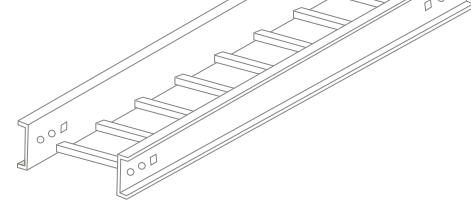


## SEPARATOR CLAMP





# CABLE TRAY SYSTEM

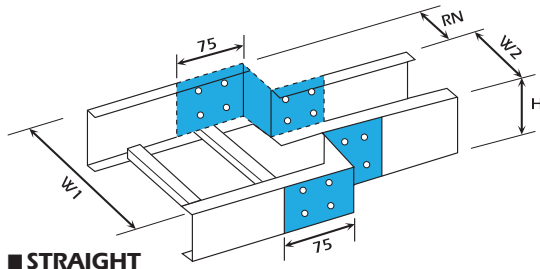


REDUCING  
CONNECTOR

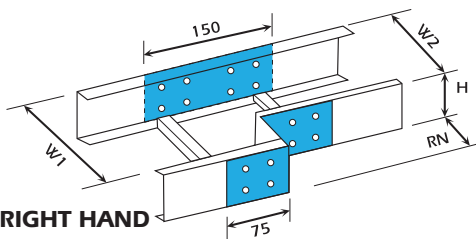
## REDUCING CONNECTOR

### REDUCING CONNECTOR

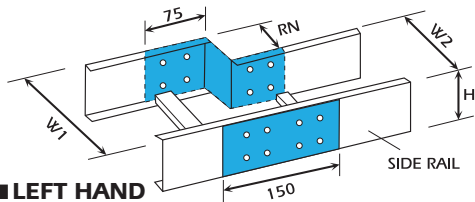
UNIT : mm



■ STRAIGHT



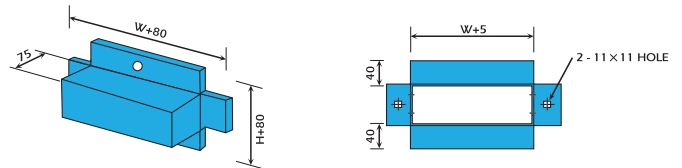
■ RIGHT HAND



■ LEFT HAND

CATALOG NO.	R N
LTOR - 025	25
LTOR - 050	50
LTOR - 100	100
LTOR - 150	150
LTOR - 200	200
LTOR - 250	250
LTOR - 300	300
LTOR - 400	400
LTOR - 500	500
LTOR - 900	900

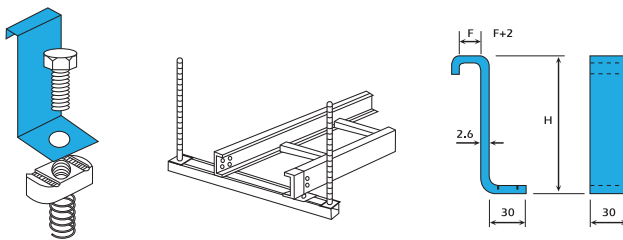
## BOX CONNECTOR



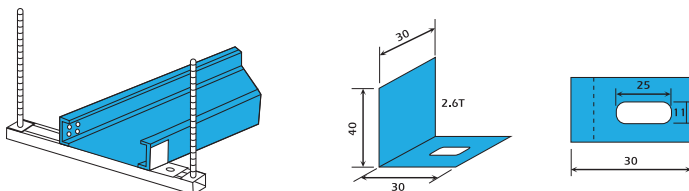
UNIT : mm

CATALOG NO.	W
LTBC - 200	200
LTBC - 300	300
LTBC - 400	400
LTBC - 500	500
LTBC - 600	600
LTBC - 700	700
LTBC - 800	800
LTBC - 900	900
LTBC - 1000	1000

## SIDERAIL CLAMP

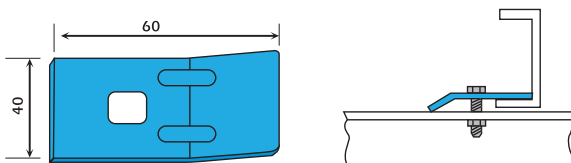


## DUCT HOLD DOWN CLAMP



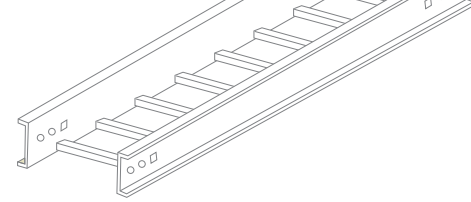
## HOLD DOWN CLAMP

UNIT : mm

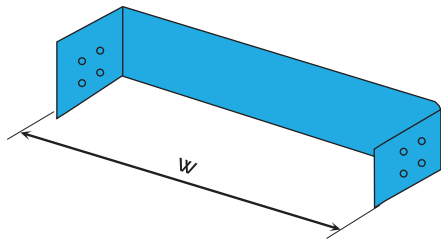


CATALOG NO.	SIZE
LTHD - 06	M6
LTHD - 10	M10
LTHD - 12	M12

# CABLE TRAY SYSTEM



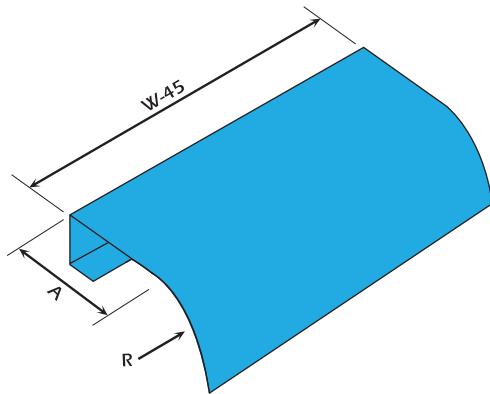
## BLIND END PLATE



UNIT : mm

CATALOG NO.	W
LTBE - 210	200
LTBE - 310	300
LTBE - 410	400
LTBE - 510	500
LTBE - 610	600
LTBE - 710	700
LTBE - 810	800
LTBE - 910	900
LTBE - 010	1000

## END DROPOUT



UNIT : mm

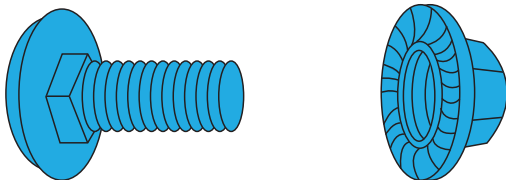
CATALOG NO.	W	A	R
LTED - 20	200	100	125
LTED - 30	300	100	125
LTED - 40	400	100	125
LTED - 50	500	100	125
LTED - 60	600	100	125
LTED - 70	700	100	125
LTED - 80	800	100	125
LTED - 90	900	100	125
LTED - 00	1000	100	125

## SHANK BOLT & NUT

Standard Materials : Carbon Steel

Standard Finishes : Electro Galvanized

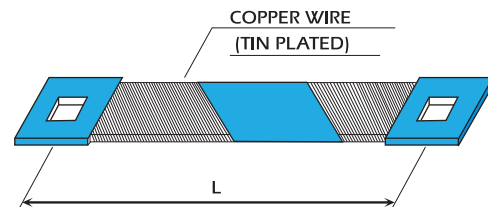
Options : Stainless Steel(STS 304, STS 316)



UNIT : mm

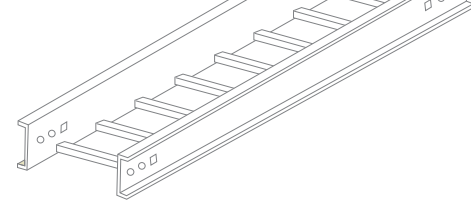
CATALOG NO.	SIZE
SBN - 0612	M 6 × 12L
SBN - 1019	M 10 × 19L

## GROUNDING BONDING JUMPER

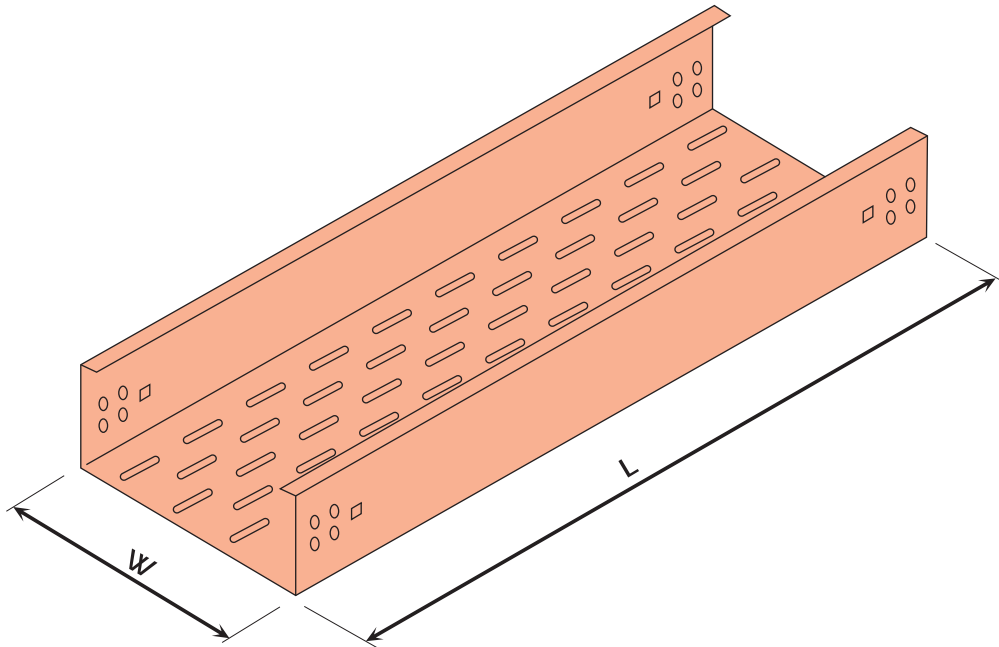


UNIT : mm

CATALOG NO.	CONDUCTOR
GBJ - 14	14mm <sup>2</sup>
GBJ - 22	22mm <sup>2</sup>
GBJ - 38	38mm <sup>2</sup>
GBJ - 60	60mm <sup>2</sup>
GBJ - 80	80mm <sup>2</sup>



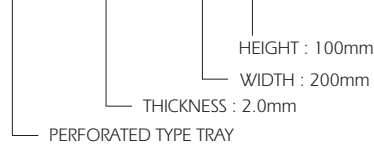
## PERFORATED TYPE



UNIT : mm

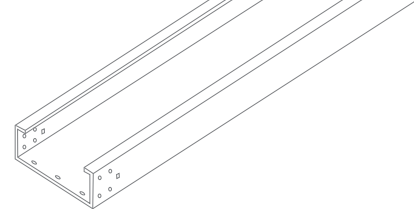
### ▶ NUMBERING SYSTEM

#### PT - T20 - 2010



CATALOG NO.	W	T
PT-T16 - 1510	150	1.6
PT-T20 - 1510		2.0
PT-T23 - 1510		2.3
PT-T26 - 1510		2.6
PT-T16 - 2010	200	1.6
PT-T20 - 2010		2.0
PT-T23 - 2010		2.3
PT-T26 - 2010		2.6
PT-T16 - 3010	300	1.6
PT-T20 - 3010		2.0
PT-T23 - 3010		2.3
PT-T26 - 3010		2.6
PT-T16 - 4010	400	1.6
PT-T20 - 4010		2.0
PT-T23 - 4010		2.3
PT-T26 - 4010		2.6
PT-T16 - 5010	500	1.6
PT-T20 - 5010		2.0
PT-T23 - 5010		2.3
PT-T26 - 5010		2.6
PT-T16 - 6010	600	1.6
PT-T20 - 6010		2.0
PT-T23 - 6010		2.3
PT-T26 - 6010		2.6

# CABLE TRAY SYSTEM



## SOLID BOTTOM TYPE(CABLE DUCT)

SOLID BOTTOM  
TYPE

### CABLE DUCT & INSIDE TYPE

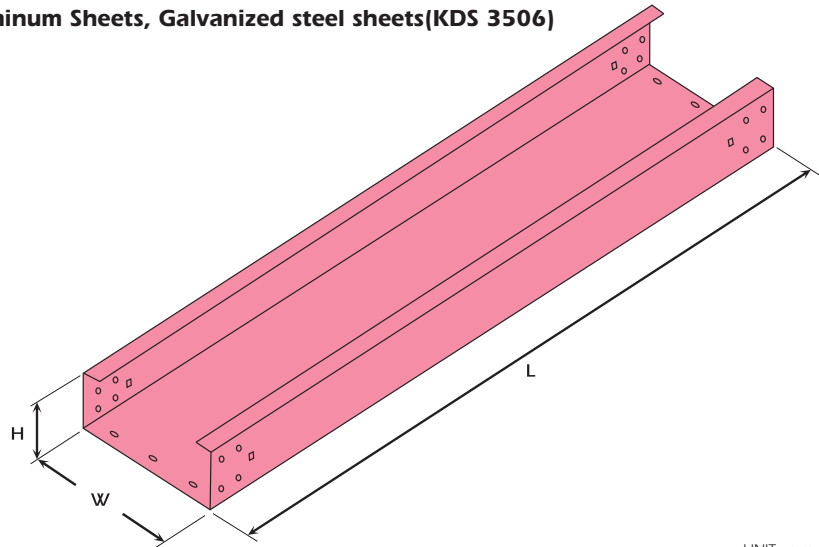
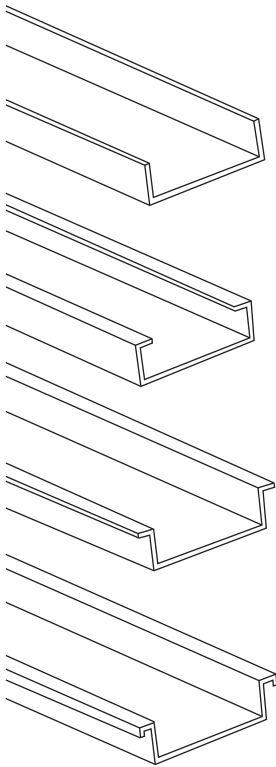
Standard Materials : Rolled Steel for General Structure(KS D 3501, SPHC)

Standard Finishes : Hot Dip Galvanized, Electrostatic Powder Coated

Constructions : Electro ARC or Co<sup>2</sup> or TIG Welding

Standard Length : 3000mm (MAX, 3000mm)

Options : Stainless steel and Aluminum Sheets, Galvanized steel sheets(KDS 3506)

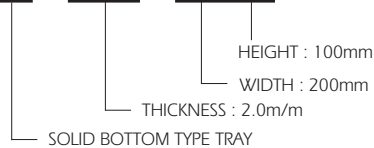


UNIT : mm

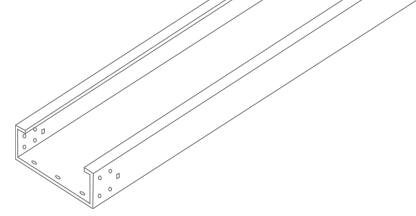
CATALOG NO.	W	R.S
ST-T16 - 1510	150	1.6
ST-T20 - 1510		2.0
ST-T23 - 1510		2.3
ST-T26 - 1510		2.6
ST-T16 - 2010	200	1.6
ST-T20 - 2010		2.0
ST-T23 - 2010		2.3
ST-T26 - 2010		2.6
ST-T16 - 3010	300	1.6
ST-T20 - 3010		2.0
ST-T23 - 3010		2.3
ST-T26 - 3010		2.6
ST-T16 - 4010	400	1.6
ST-T20 - 4010		2.0
ST-T23 - 4010		2.3
ST-T26 - 4010		2.6
ST-T16 - 5010	500	1.6
ST-T20 - 5010		2.0
ST-T23 - 5010		2.3
ST-T26 - 5010		2.6
ST-T16 - 6010	600	1.6
ST-T20 - 6010		2.0
ST-T23 - 6010		2.3
ST-T26 - 6010		2.6

### ▶ NUMBERING SYSTEM

#### ST - T20 - 2010

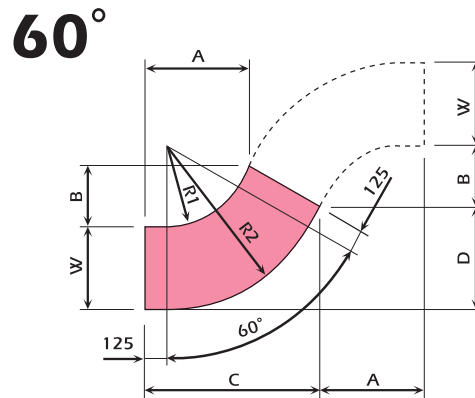
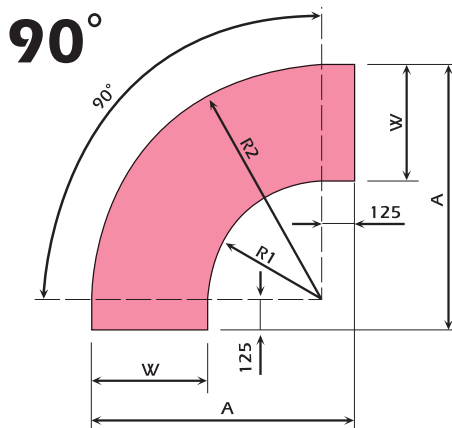
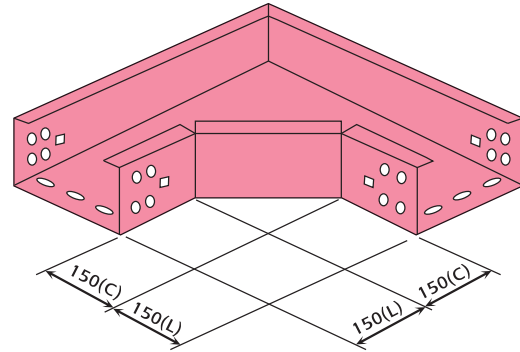
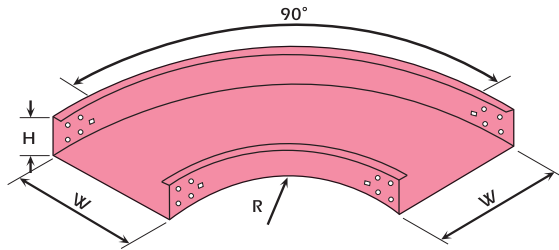


# CABLE TRAY SYSTEM



## SOLID BOTTOM TYPE HORIZONTAL ELBOW

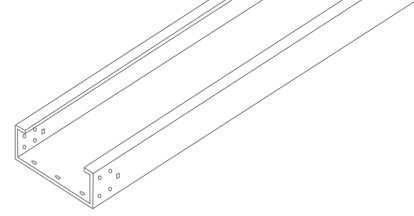
SOLID BOTTOM  
TYPE



UNIT : mm

CATALOG NO.	R1	R2	A	W	CATALOG NO.	R1	R2	A	B	C	D
STHE-90 - 1530	300	450	575	150	STHE-60 - 1530	300	450	447	258	577	334
STHE-90 - 1560	600	750	875		STHE-60 - 1560	600	750	707	408	837	484
STHE-90 - 1590	900	1050	1175		STHE-60 - 1590	900	1050	967	558	1097	634
STHE-90 - 2030	300	500	625	200	STHE-60 - 2030	300	500	447	258	627	359
STHE-90 - 2060	600	800	925		STHE-60 - 2060	600	800	707	408	881	569
STHE-90 - 2090	900	1100	1225		STHE-60 - 2090	900	1100	967	558	1141	659
STHE-90 - 3030	300	600	725	300	STHE-60 - 3030	300	600	447	258	708	409
STHE-90 - 3060	600	900	1025		STHE-60 - 3060	600	900	707	408	967	559
STHE-90 - 3090	900	1200	1325		STHE-60 - 3090	900	1200	967	558	1227	709
STHE-90 - 4030	300	700	825	400	STHE-60 - 4030	300	700	447	258	794	459
STHE-90 - 4060	600	1000	1125		STHE-60 - 4060	600	1000	707	408	1054	609
STHE-90 - 4090	900	1300	1425		STHE-60 - 4090	900	1300	967	558	1314	759
STHE-90 - 5030	300	800	925	500	STHE-60 - 5030	300	800	447	258	881	509
STHE-90 - 5060	600	1100	1225		STHE-60 - 5060	600	1100	707	408	1141	657
STHE-90 - 5090	900	1400	1525		STHE-60 - 5090	900	1400	967	558	1400	809
STHE-90 - 6030	300	900	1025	600	STHE-60 - 6030	300	900	447	258	967	559
STHE-90 - 6060	600	1200	1325		STHE-60 - 6060	600	1200	707	408	1227	709
STHE-90 - 6090	900	1500	1625		STHE-60 - 6090	900	1500	967	558	1487	859

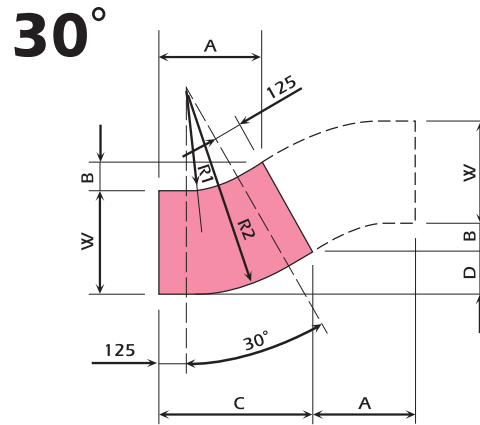
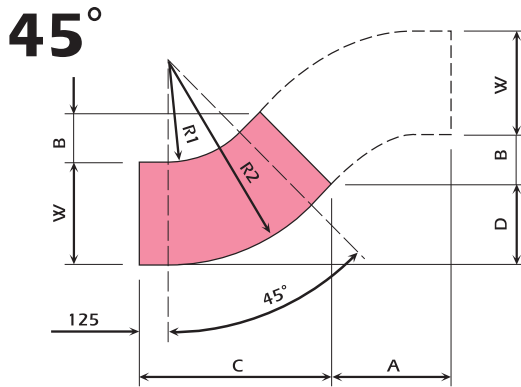
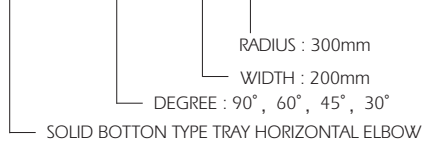
# CABLE TRAY SYSTEM



## SOLID BOTTOM TYPE HORIZONTAL ELBOW

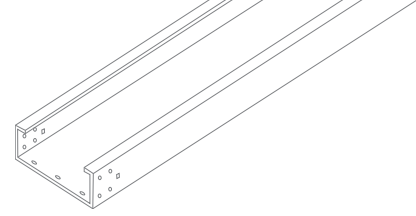
### ► NUMBERING SYSTEM

#### STHE - 90 - 2030

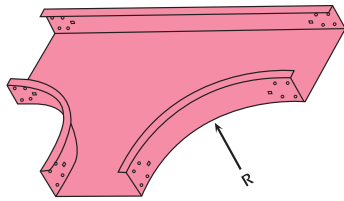


UNIT : mm

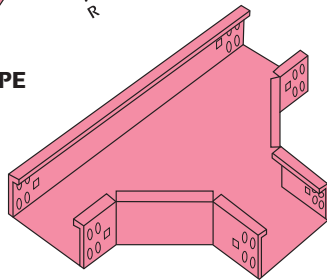
CATALOG NO.	R1	R2	A	B	C	D	W	CATALOG NO.	R1	R2	A	B	C	D
STHE-45 - 1530	300	450	426	176	532	220	150	STHE-30 - 1530	300	450	385	104	460	124
STHE-45 - 1560	600	750	638	264	744	308		STHE-30 - 1560	600	750	535	144	610	164
STHE-45 - 1590	900	1050	850	352	956	396		STHE-30 - 1590	900	1050	685	184	760	204
STHE-45 - 2030	300	500	426	176	567	235	200	STHE-30 - 2030	300	500	385	104	485	131
STHE-45 - 2060	600	800	638	264	779	323		STHE-30 - 2060	600	800	535	144	635	171
STHE-45 - 2090	900	1100	850	352	991	411		STHE-30 - 2090	900	1100	685	184	785	211
STHE-45 - 3030	300	600	426	176	638	267	300	STHE-30 - 3030	300	600	385	104	535	144
STHE-45 - 3060	600	900	638	264	850	352		STHE-30 - 3060	600	900	535	144	685	184
STHE-45 - 3090	900	1200	850	352	1062	440		STHE-30 - 3090	900	1200	685	184	835	224
STHE-45 - 4030	300	700	426	176	708	293	400	STHE-30 - 4030	300	700	385	104	585	157
STHE-45 - 4060	600	1000	638	264	921	381		STHE-30 - 4060	600	1000	535	144	735	198
STHE-45 - 4090	900	1300	850	352	1133	469		STHE-30 - 4090	900	1300	685	184	885	238
STHE-45 - 5030	300	800	426	176	779	323	500	STHE-30 - 5030	300	800	385	104	635	171
STHE-45 - 5060	600	1100	638	264	991	411		STHE-30 - 5060	600	1100	535	144	785	211
STHE-45 - 5090	900	1400	850	352	1203	498		STHE-30 - 5090	900	1400	685	184	935	251
STHE-45 - 6030	300	900	426	176	850	352	600	STHE-30 - 6030	300	900	385	104	685	184
STHE-45 - 6060	600	1200	638	264	1062	440		STHE-30 - 6060	600	1200	535	144	835	224
STHE-45 - 6090	900	1500	850	352	1274	528		STHE-30 - 6090	900	1500	685	184	985	265



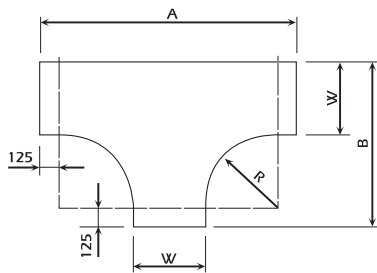
## SOLID BOTTOM TYPE HORIZONTAL TEE



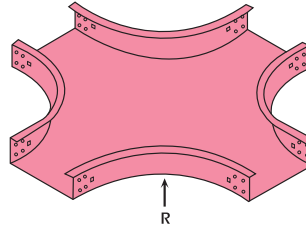
■ SPECIAL TYPE



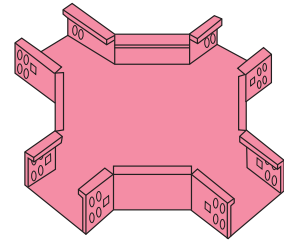
■ GENERAL TYPE



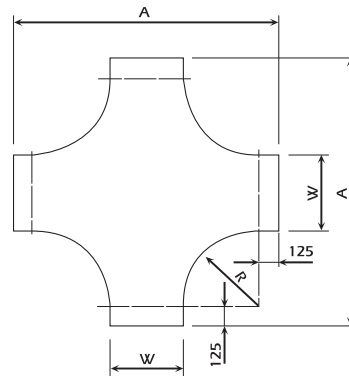
## HORIZONTAL CROSS



■ SPECIAL TYPE



■ GENERAL TYPE



SOLID BOTTOM  
TYPE

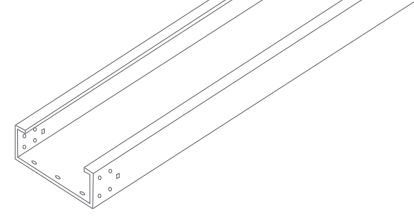
UNIT : mm

CATALOG NO.	W	R	A	B
STHT - 1530	150	300	1000	575
STHT - 1560		600	1600	875
STHT - 1590		900	2200	1175
STHT - 2030	200	300	1050	625
STHT - 2060		600	1650	925
STHT - 2090		900	2250	1225
STHT - 3030	300	300	1150	725
STHT - 3060		600	1750	1025
STHT - 3090		900	2350	1325
STHT - 4030	400	300	1250	825
STHT - 4060		600	1850	1125
STHT - 4090		900	2450	1425
STHT - 5030	500	300	1350	925
STHT - 5060		600	1950	1225
STHT - 5090		900	2550	1525
STHT - 6030	600	300	1450	1025
STHT - 6060		600	2050	1325
STHT - 6090		900	2650	1625

UNIT : mm

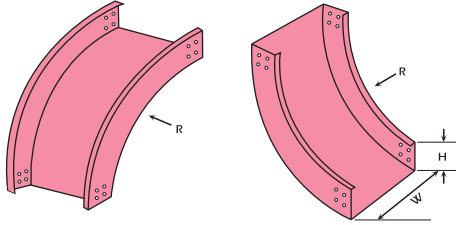
CATALOG NO.	W	R	A
STHC - 1530	150	300	1000
STHC - 1560		600	1600
STHC - 1590		900	2200
STHC - 2030	200	300	1050
STHC - 2060		600	1650
STHC - 2090		900	2250
STHC - 3030	300	300	1150
STHC - 3060		600	1750
STHC - 3090		900	2350
STHC - 4030	400	300	1250
STHC - 4060		600	1850
STHC - 4090		900	2450
STHC - 5030	500	300	1350
STHC - 5060		600	1950
STHC - 5090		900	2550
STHC - 6030	600	300	1450
STHC - 6060		600	2050
STHC - 6090		900	2650

# CABLE TRAY SYSTEM



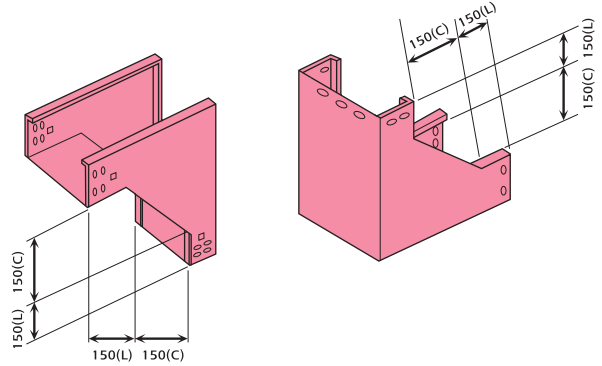
## SOLID BOTTOM TYPE VERTICAL ELBOW

SOLID BOTTOM TYPE



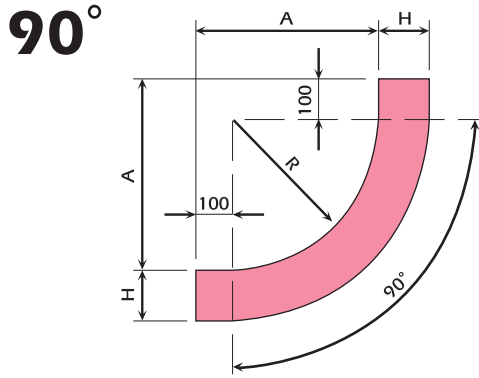
■ SPECIAL OUTSIDE ELBOW

■ SPECIAL INSIDE ELBOW

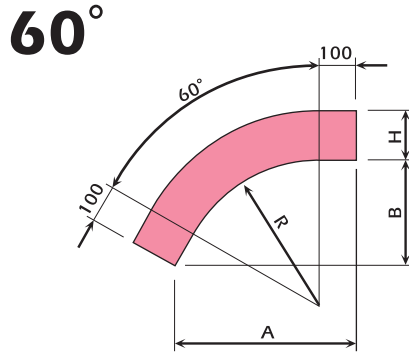


■ 角TYPE OUTSIDE TYPE

■ 角TYPE INSIDE TYPE



■ INSIDE ELBOW



■ OUTSIDE ELBOW

UNIT : mm

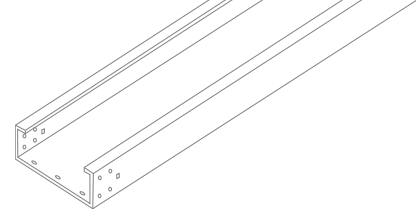
CATALOG NO.		W	R	A
INSIDE	OUTSIDE			
STVI-90 - 1530	STVO-90 - 1530	150	300	400
STVI-90 - 1560	STVO-90 - 1560		600	700
STVI-90 - 1590	STVO-90 - 1590		900	1000
STVI-90 - 2030	STVO-90 - 2030	200	300	400
STVI-90 - 2060	STVO-90 - 2060		600	700
STVI-90 - 2090	STVO-90 - 2090		900	1000
STVI-90 - 3030	STVO-90 - 3030	300	300	400
STVI-90 - 3060	STVO-90 - 3060		600	700
STVI-90 - 3090	STVO-90 - 3090		900	1000
STVI-90 - 4030	STVO-90 - 4030	400	300	400
STVI-90 - 4060	STVO-90 - 4060		600	700
STVI-90 - 4090	STVO-90 - 4090		900	1000
STVI-90 - 5030	STVO-90 - 5030	500	300	400
STVI-90 - 5060	STVO-90 - 5060		600	700
STVI-90 - 5090	STVO-90 - 5090		900	1000
STVI-90 - 6030	STVO-90 - 6030	600	300	400
STVI-90 - 6060	STVO-90 - 6060		600	700
STVI-90 - 6090	STVO-90 - 6090		900	1000

UNIT : mm

CATALOG NO.		W	R	A	B
INSIDE	OUTSIDE				
STVI-60 - 1530	STVO-60 - 1530	150	300	410	236
STVI-60 - 1560	STVO-60 - 1560		600	670	386
STVI-60 - 1590	STVO-60 - 1590		900	930	536
STVI-60 - 2030	STVO-60 - 2030	200	300	410	236
STVI-60 - 2060	STVO-60 - 2060		600	670	386
STVI-60 - 2090	STVO-60 - 2090		900	930	536
STVI-60 - 3030	STVO-60 - 3030	300	300	410	236
STVI-60 - 3060	STVO-60 - 3060		600	670	386
STVI-60 - 3090	STVO-60 - 3090		900	930	536
STVI-60 - 4030	STVO-60 - 4030	400	300	410	236
STVI-60 - 4060	STVO-60 - 4060		600	670	386
STVI-60 - 4090	STVO-60 - 4090		900	930	536
STVI-60 - 5030	STVO-60 - 5030	500	300	410	236
STVI-60 - 5060	STVO-60 - 5060		600	670	386
STVI-60 - 5090	STVO-60 - 5090		900	930	536
STVI-60 - 6030	STVO-60 - 6030	600	300	410	236
STVI-60 - 6060	STVO-60 - 6060		600	670	386
STVI-60 - 6090	STVO-60 - 6090		900	930	536



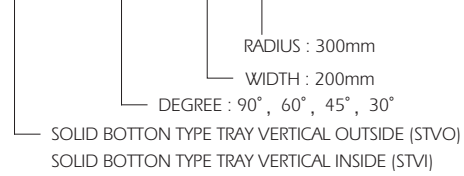
# CABLE TRAY SYSTEM



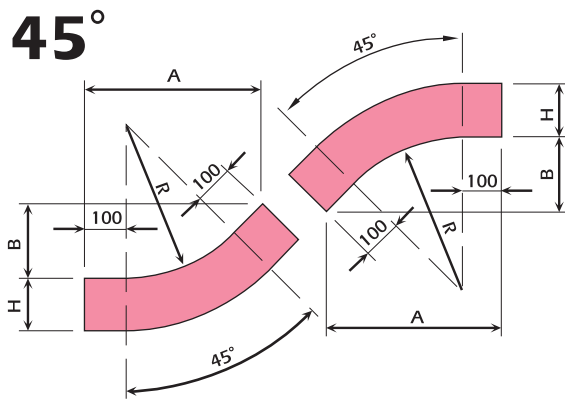
## SOLID BOTTOM TYPE VERTICAL ELBOW

## NUMBERING SYSTEM

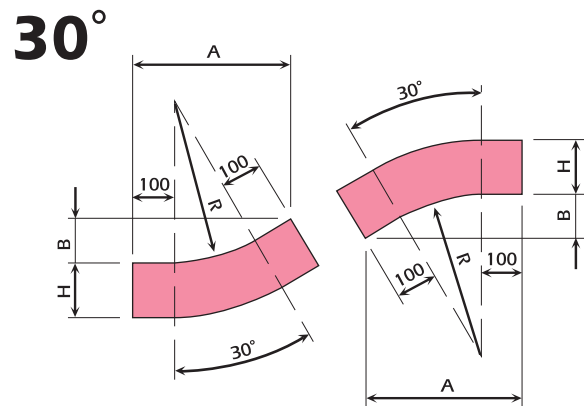
### STVO - 90 - 2030



SOLID BOTTOM  
TYPE



■ INSIDE ELBOW    ■ OUTSIDE ELBOW



■ INSIDE ELBOW    ■ OUTSIDE ELBOW

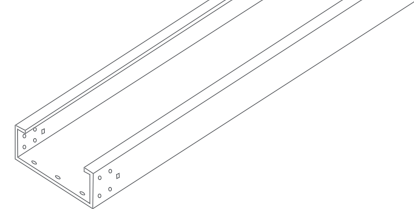
UNIT : mm

CATALOG NO.		W	R	A	B
INSIDE	OUTSIDE				
STVI-45 - 1530	STVO-45 - 1530	150	300	383	158
STVI-45 - 1560	STVO-45 - 1560		600	595	246
STVI-45 - 1590	STVO-45 - 1590		900	808	334
STVI-45 - 2030	STVO-45 - 2030	200	300	383	158
STVI-45 - 2060	STVO-45 - 2060		600	595	246
STVI-45 - 2090	STVO-45 - 2090		900	808	334
STVI-45 - 3030	STVO-45 - 3030	300	300	383	158
STVI-45 - 3060	STVO-45 - 3060		600	595	246
STVI-45 - 3090	STVO-45 - 3090		900	808	334
STVI-45 - 4030	STVO-45 - 4030	400	300	383	158
STVI-45 - 4060	STVO-45 - 4060		600	595	246
STVI-45 - 4090	STVO-45 - 4090		900	808	334
STVI-45 - 5030	STVO-45 - 5030	500	300	383	158
STVI-45 - 5060	STVO-45 - 5060		600	595	246
STVI-45 - 5090	STVO-45 - 5090		900	808	334
STVI-45 - 6030	STVO-45 - 6030	600	300	383	158
STVI-45 - 6060	STVO-45 - 6060		600	595	246
STVI-45 - 6090	STVO-45 - 6090		900	808	334

UNIT : mm

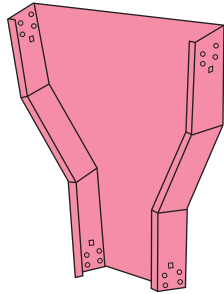
CATALOG NO.		W	R	A	B
INSIDE	OUTSIDE				
STVI-30 - 1530	STVO-30 - 1530	150	300	337	90
STVI-30 - 1560	STVO-30 - 1560		600	487	130
STVI-30 - 1590	STVO-30 - 1590		900	637	170
STVI-30 - 2030	STVO-30 - 2030	200	300	337	90
STVI-30 - 2060	STVO-30 - 2060		600	487	130
STVI-30 - 2090	STVO-30 - 2090		900	637	170
STVI-30 - 3030	STVO-30 - 3030	300	300	337	90
STVI-30 - 3060	STVO-30 - 3060		600	487	130
STVI-30 - 3090	STVO-30 - 3090		900	637	170
STVI-30 - 4030	STVO-30 - 4030	400	300	337	90
STVI-30 - 4060	STVO-30 - 4060		600	487	130
STVI-30 - 4090	STVO-30 - 4090		900	637	170
STVI-30 - 5030	STVO-30 - 5030	500	300	337	90
STVI-30 - 5060	STVO-30 - 5060		600	487	130
STVI-30 - 5090	STVO-30 - 5090		900	637	170
STVI-30 - 6030	STVO-30 - 6030	600	300	337	90
STVI-30 - 6060	STVO-30 - 6060		600	487	130
STVI-30 - 6090	STVO-30 - 6090		900	637	170

# CABLE TRAY SYSTEM

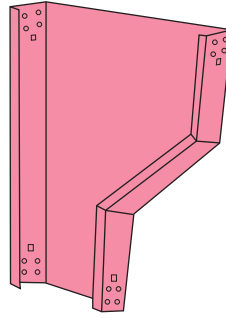


## SOLID BOTTOM TYPE REDUCER

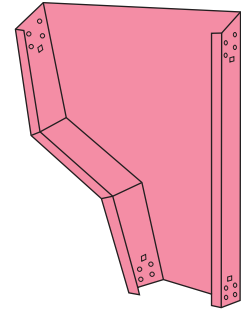
SOLID BOTTOM TYPE



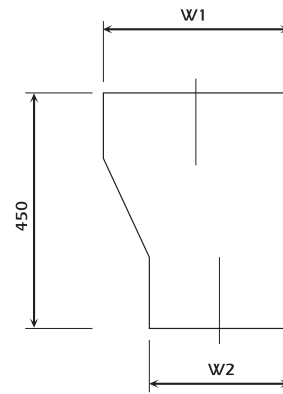
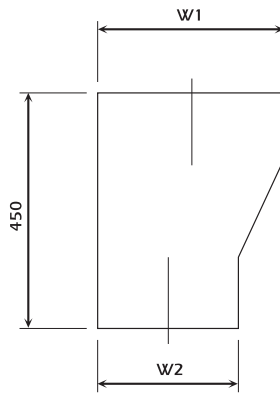
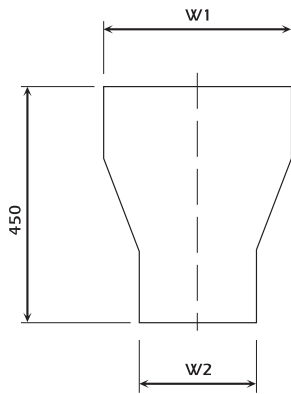
■ STRAIGHT TYPE



■ RIGHT HAND TYPE



■ LEFT HAND TYPE

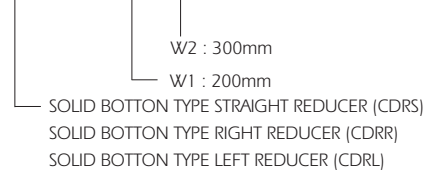


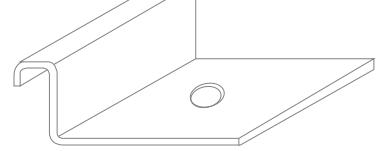
UNIT : mm

CATALOG NO.			W	B
STRAIGHT	RIGHT	LEFT		
STRS - 2015	STRR - 2015	STRL - 2015	150	150
STRS - 3015	STRR - 3015	STRL - 3015	200	150
STRS - 3020	STRR - 3020	STRL - 3020		200
STRS - 4015	STRR - 4015	STRL - 4015	300	150
STRS - 4020	STRR - 4020	STRL - 4020		200
STRS - 4030	STRR - 4030	STRL - 4030		300
STRS - 5015	STRR - 5015	STRL - 5015	400	150
STRS - 5020	STRR - 5020	STRL - 5020		200
STRS - 5030	STRR - 5030	STRL - 5030		300
STRS - 5040	STRR - 5040	STRL - 5040		400
STRS - 6015	STRR - 6015	STRL - 6015	500	150
STRS - 6020	STRR - 6020	STRL - 6020		200
STRS - 6030	STRR - 6030	STRL - 6030		300
STRS - 6040	STRR - 6040	STRL - 6040		400
STRS - 6050	STRR - 6050	STRL - 6050		500

## ▶ NUMBERING SYSTEM

### STRS - 2030





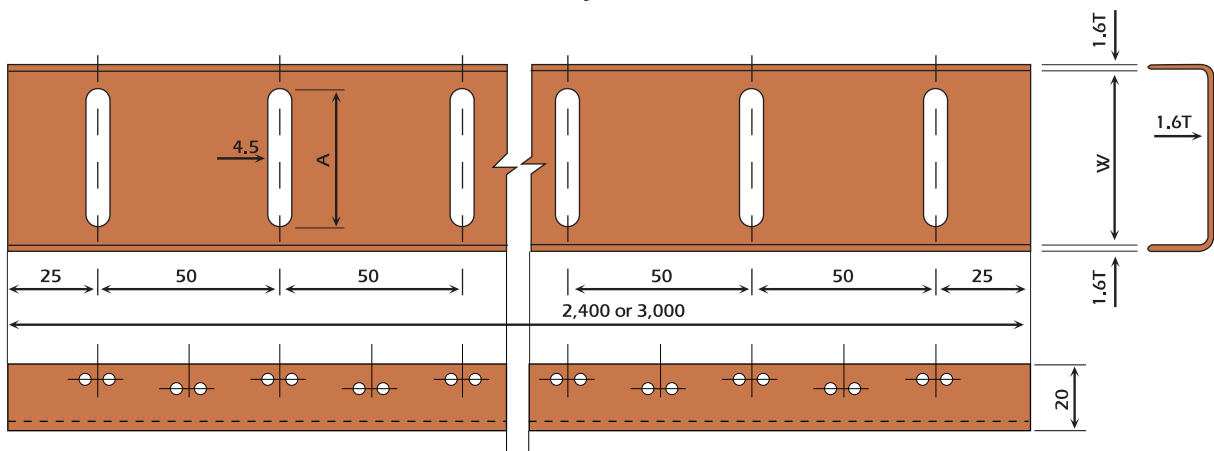
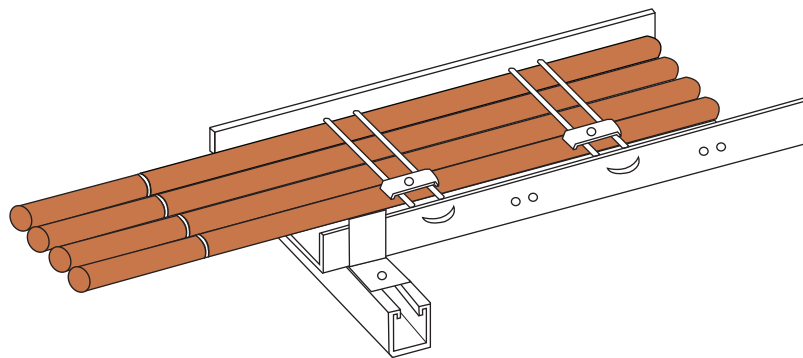
## PUNCHED PLATE

Punched plate is generally used for branch runs of cables and / or tubings  
 Meteria : JIS G 3101 SS41 Steel, Stainless Steel(SUS304, SUS316, SUS316L),  
 Aluminium Pregalvanized Steel.

Standard length : 2.4M or 3.0M

Finishes : Electro Galvanized after fabrication in accordance with ASTM B633 Order  
 staples, clamps, Bolts, Nuts and Fixing clamps as separate Item

PUNCHED PLATE



UNIT : mm

PUNCHED PLATE				STAPLE	
CATALOG NO.	W	A	wt. kg/m	B	CATALOG NO.
PPI - 3001	35	27	0.9	60	PPS - 1
PPI - 3002	50	42	1.1	75	PPS - 2
PPI - 3003	70	62	1.3	95	PPS - 3
PPI - 3004	100	92	1.7	125	PPS - 4

# CABLE TRAY SYSTEM



100H

## EASY (Everywhere All Simple Yes)TRAY

「EASY 란?

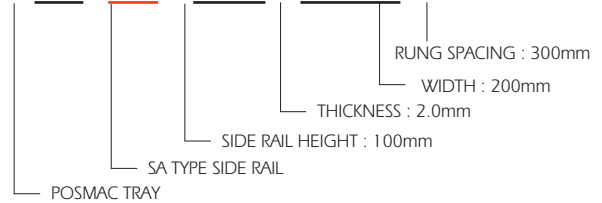
Everywhere All Simple Yes의 약자로서 어디에서나 모든 사람들이 쉽게 모두가 예스! 할 수 있는 EASY TRAY 입니다。」

EASY TRAY



### ▶ NUMBERING SYSTEM

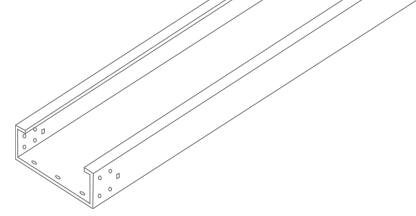
**E - SA 10 - T20 - 2030**



UNIT : mm

CATALOG NO.	W	R.S
E-SA10-T20 - 2020	200	200
E-SA10-T20 - 2030		300
E-SA10-T20 - 3020	300	200
E-SA10-T20 - 3030		300
E-SA10-T20 - 4020	400	200
E-SA10-T20 - 4030		300
E-SA10-T20 - 5020	500	200
E-SA10-T20 - 5030		300
E-SA10-T20 - 6020	600	200
E-SA10-T20 - 6030		300
E-SA10-T20 - 7020	700	200
E-SA10-T20 - 7030		300
E-SA10-T20 - 8020	800	200
E-SA10-T20 - 8030		300
E-SA10-T20 - 9020	900	200
E-SA10-T20 - 9030		300
E-SA10-T20 - 0020	1000	200
E-SA10-T20 - 0030		300

SIDE RAIL Thickness : 2.0t, 2.3t, 2.6t



## POSMAC(POSCO Magnesium Alloy Coating)TRAY

### POSMC 도금 Steel Product

「POSMC 도금이란?

POSCO Magnesium Alloy Coating의 약자로서 POSCO에서 최근 개발한 마그네슘합금 도금 강판으로 기존 용융 아연도금 강판보다 5배 이상 내식성이 강하므로 AL 및 SUS 재질을 대체할 수 있는 신기술임」

1. POSMAC 도금 Steel은 기존 용융아연도금 Steel의 해수, 알칼리 및 산성에 대한 **부식문제를 완벽하게 해결합니다.**
2. POSMAC 도금 Steel은 기존 용융아연도금 Steel보다 내식성이 5배 이상 강합니다.
  - 용융 아연도금 Steel의 수명 25년 보다는 POSMAC도금 Steel 수명이 거의 4배인 100년이므로 한 제품은 수명이 다할 때 까지 거의 교체할 필요가 없음.
3. POSMAC도금 Steel은 AL과 SUS를 대체할 수 있는 체적의 제품임.
  - POSMAC도금 강판은 SUS304의 내식성과 거의 동일하거나 조금 열위하므로 값비싼 SUS304제품과 AL을 대체할 수 있는 최상의 제품임.

		GI	Hot Dip	GL(갈바륨)	POSMAC	AL	SUS
내식성	염소	최하	최하	최하	최상	상	최하
	알칼리	하	하	최하	최상	최하	상
	산성	하	하	최상	상	-	최상
가격		100			120	매우비쌌	매우비쌌

### ■ STS 강판 대비 고내식도금강판 내식성 평가(CCT)

구분	PosMAC	ZAM	STS430	STS304
POSCO (ISO 15 cycle)				
고객사 (30 cycle)	미평가			

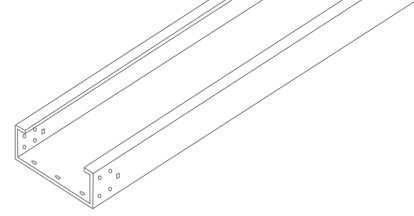
· 부식시험 조건(1cycle): POSCO SST 2Hr → 건조 4Hr → 습윤 2Hr, 고객사 : SST 8Hr → 휴지 16Hr

구분	PosMAC(M120)	STS 430	STS 304
내식성 (ISO CCT)	백칭 15, 적칭 50 cycle	적칭 6~10 cycle	적칭 60 cycle
부식특성	전면 부식, 광택소실	Pitting+전면부식, 광택유지	Pitting+광택유지

- PosMAC, ZAM이 저급재인 STS 430 보다 내식성 우수하지만, STS 대비 열위함.

: STS 304는 탄소강 절단기 사용에 따른 전단면 이물 묻음으로 적정발생 추정

EASY TRAY



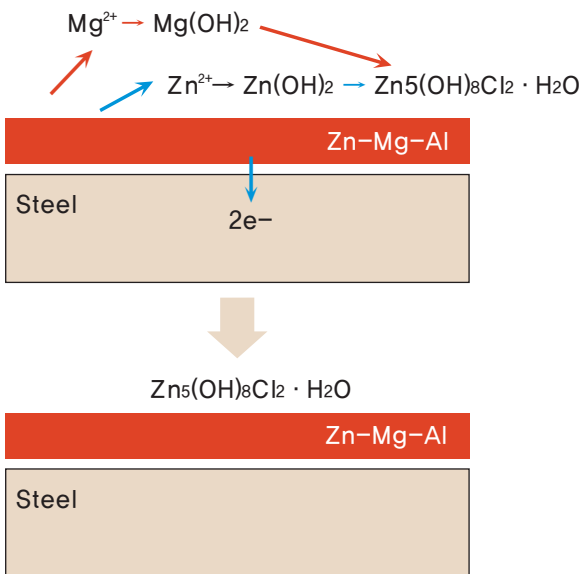
## POSMC 도금이란?

- ① POSCO에서 개발한 Magnesium Alloy 합금 도금 기술임.
  - POSMAC은 POSCO Magnesium Alloy Coating의 약자임
  - Zn 3%, Mg 2.5% Al 3원계 고내식 합금 도금 기술임.
- ② 동일한 도금량 부착량의 기존 용융 아연도금(GI, HGI)보다 내식성이 5배 이상 우수함.
  - AL과 SUS를 대체할 수 있는 신기술임
- ③ 특히 절단면의 내식성(적청)이 매우 우수하여 후도금 제품을 대체하여 사용 가능합니다. GI강판을 사용해 오신 고객께서는 가공, 조립 및 도장 공정의 변화없이 그대로 사용할 수 있습니다.

도금층 단면 조직 (FE-SEM X500)	
POSMAC	
GI	
갈바륨 (Zn-55% Al)	

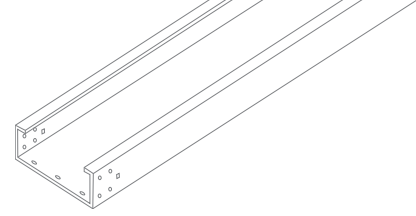
## POSMAC 도금이 내식성이 좋은 이유

- ① 도금층중 Magnesium(Mg) 성분은 부식촉진물인 수분과 염소(CL)을 만나면 치밀하고 안정된 부식 생성물인 시몬클라이트【Zn5(OH)8Cl2 · H2O】형성을 촉진시키게 되고 Magnesium 산화물을 만들어 시간이 지나면서 도금표면에 보호피막을 형성하여 철판이 부식되는 것을 방지하는 역할을 합니다.

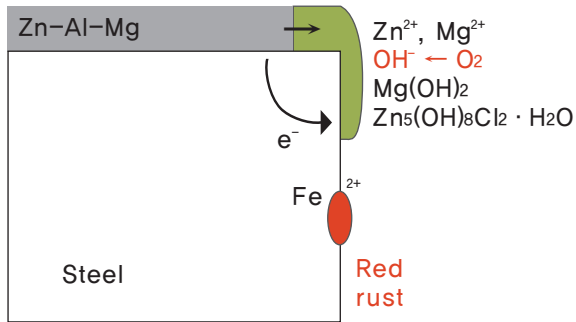


	CCT	Surface	Cross section
30 cycle			
60 cycle			

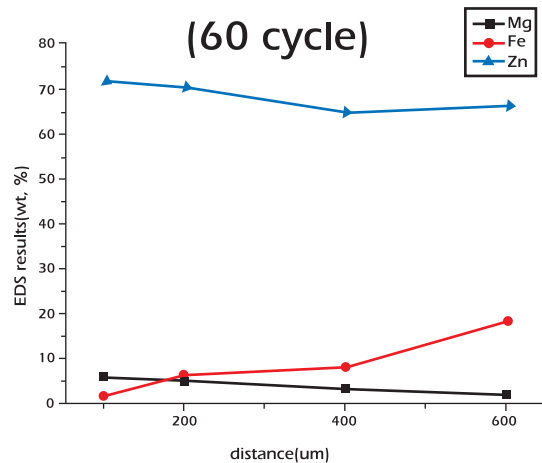
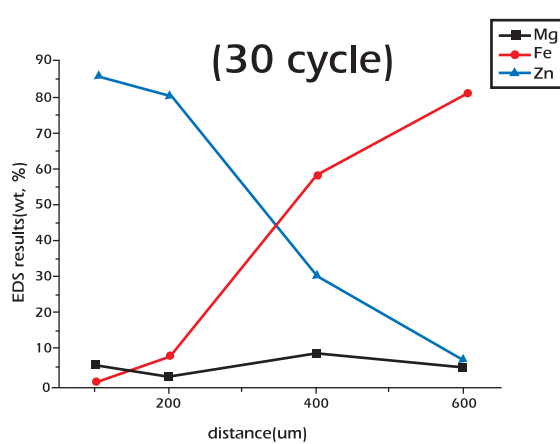
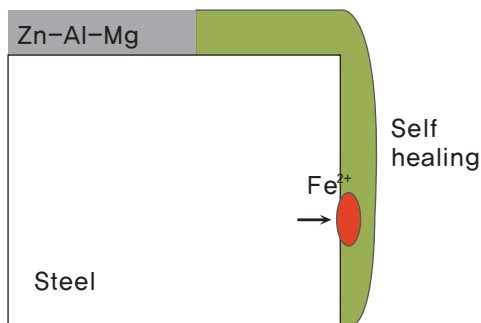
# CABLE TRAY SYSTEM



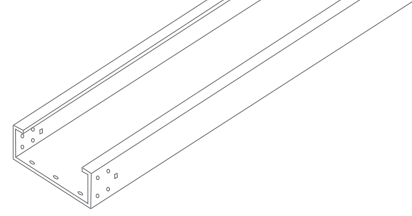
- ② 절단면 발생시 상부 도금층이 용해되어 단면을 피복하게 되고 안정적인 부식생성물의 성장을 촉진시키게 됩니다. 그러나 이미 노출된 철판에는 적청이 발생하게 되지만 이후 절단면에 부식생성물 Film으로 피복이 되면서 절단면의 부식을 방지하는 역할을 합니다.



EASY TRAY



# CABLE TRAY SYSTEM



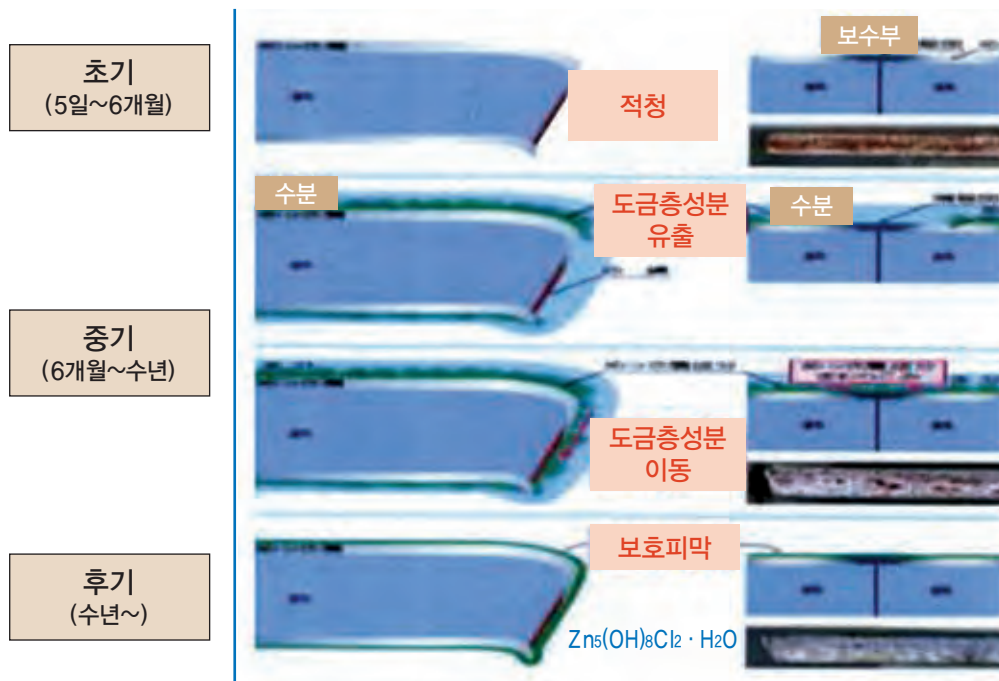
## POSMAC 주요특성

### ○ POSMAC (POSCO Magnesium Alloy Coated Product) 제품은

- Zn-2.5%Al-3.0%Mg 3원계 용융합금도금강판으로 GI 대비 5배 이상의 우수한 내식성을 보이며, 철강소재의 최대 단점인 절단면 내식성에서도 우수한 특성을 보임.
- 표면외관, 도장성, Galling성, 내알카리성, 내암모늄성 우수하며, 용접성은 GI 대비 미세 열세.(갈바륨 대비 우수)

### ○ 방식 메카니즘

- 도금층중 Mg 성분은 부식촉진물인 수분과 염소(Cl)를 만나면 치밀하고 안정된 부식생성물인 시몬클라이트 ( $Zn_5(OH)_8Cl_2 \cdot H_2O$ ) 형성량 촉진 및 Mg 산화물을 만들어 시간 경과시 도금표면 보호피막 형성으로 부식진행 방지.

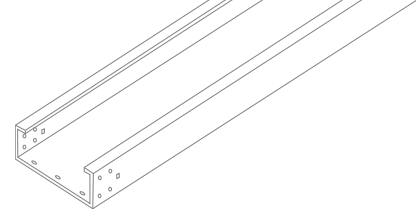


### ○ 절단면 내식성 확보/미확보 제품

구분	미확보	확보
일반용	EGI GI / GA	-
고내식용	GI후도금(K450~600) 갈판 (Zn-5%Al) 갈바륨 (Zn-55%Al) Al 도금 칼라강판 (일부 개선)	Cu/Mg/Ti STS Al 가공 後 도금 가공 後 도장 POSMAC/ZAM

☞ Zn-Al-Mg 3원계 합금도금은 도금제품중 최초로 절단면 내식성 확보 → 향후 경쟁소재 대체 유리





## POSMAC, GI, Hot Dip Zn, 갈바륨, AL 및 SUS 재질별 내식성 특성

○ 재료별 품질특성 : Hot Dip Zn, 갈바륨 대비 품질, 경제성 모두 우수, STS, AI 대비 품질 미세 열세하나 경제성 우수

구분	평판부내식	절단면내식	내염소부식	내알카리성	내산성	외장용 표면	경제성
POSMAC	우수	우수	매우 우수	매우 우수	양호	보통	우수
GI	열세	열세	열세	보통	열세	보통	우수
Hot Dip	보통	양호	열세	보통	열세	열세	열세
GL(갈바륨)	양호	열세	열세	열세	매우 우수	우수(스팽클)	우수
AI	매우 우수	매우 우수	우수	열세	-	매우 우수	열세
STS	매우 우수	매우 우수	열세(316 제외)	우수	매우 우수	매우 우수	매우열세

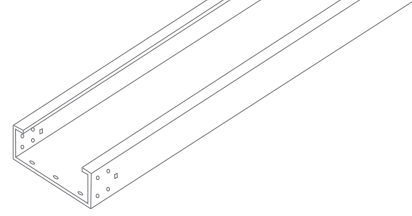
EASY TRAY

## POSCO POSMAC VS GI(H) 내식성 비교평가

- POSMAC 생산일자 : '13.2월
- Test Start : '13.2.15 ~ (현재 SST 2,000Hr 평가완료)
- 포함 CGL 생산 POSMAC 및 GI(H) 도금량별 내식성 비교 평가 (후처리 조건: Chromater)
  - 평가방법 : SST 및 CCT 평가하여 적청 5% 발생시간 비료
  - 후처리 조건 : Chromate
- 평가샘플 List

구분	목표도금량	후처리	도금량 (ICP, g/m <sup>2</sup> )		
			전면	후면	합계
POSMAC	M140	CL	85.9	82.5	168.4
	M200	CL	117.9	115.3	233.2
	M275	CL	151.1	149.2	300.3
GI(H)	M120	CL	77.6	74.7	152.3
	M200	CL	139.1	130.4	269.5
	M300	CL	164.4	149.8	314.2
	M600	CL	300.7	301.8	602.5

# CABLE TRAY SYSTEM



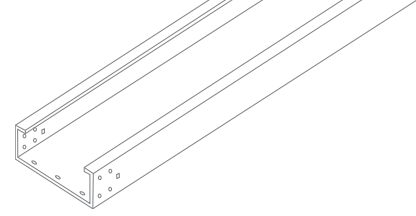
## ■ SST 결과

구분	GI(H)				POSMAC		
	K120	K200	K300	K600	M140	M200	M275
도금량(편면)	77.6	139.1	164.4	300.7	85.9	117.9	151.1
100 hr							
600 hr							
1000 hr							

EASY TRAY

## ■ SST 결과

구분	GI(H)				POSMAC		
	K120	K200	K300	K600	M140	M200	M275
도금량(편면)	77.6	139.1	164.4	300.7	85.9	117.9	151.1
1500 hr							
2000 hr	SEVERE RED RUST	SEVERE RED RUST	SEVERE RED RUST				



■ CCT 결과 ※ CCT cycle (KS R1127) : SST 2Hr (35°C) → Dry 4Hr (25%RH, 60°C) → 습윤 2Hr (95%RH 50°C)

구분	GI(H)				POSMAC		
	K120	K200	K300	K600	M140	M200	M275
도금량(편면)	77.6	139.1	164.4	300.7	85.9	117.9	151.1
15 cycle							
100 cycle							
100 cycle	SEVERE RED RUST	SEVERE RED RUST	SEVERE RED RUST				

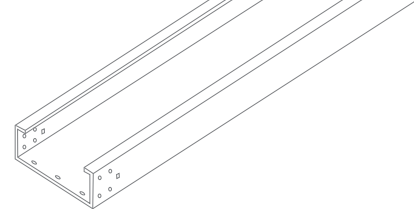
EASY TRAY

## POSMAC 내화학성 평가결과

### ① 품질평가용 시편

제품명	모재두께 (t)	도금량 (g/m <sup>2</sup> )	도금층: 모재비	후처리	평가사항
POSMAC (7)	3	180.6	1:100	○	단면, 표면 내식성
POSMAC (46)	2	129.6	1:92	○	단면, 표면 내식성
POSMAC (64)	1.6	131.3	1:73	○	단면, 표면 내식성 내화학성 평가, 가공내식성
GI	1.6	296	1:32	X	단면, 표면 내식성 내화학성 평가, 가공내식성
타사(Z)	1.6	107.7	1:89	○	단면, 표면 내식성 내화학성 평가, 가공내식성
타사(M)	2.0	300	1:25	○	단면, 표면 내식성 내화학성 평가, 가공내식성
Galvalume	1.6	109.4	1:87*	X	단면, 표면 내식성 내화학성 평가
타사(S)	1.2	122.6	1:58*	○	단면, 내식성, 표면 내식성 가공내식성, 내화학성 평가

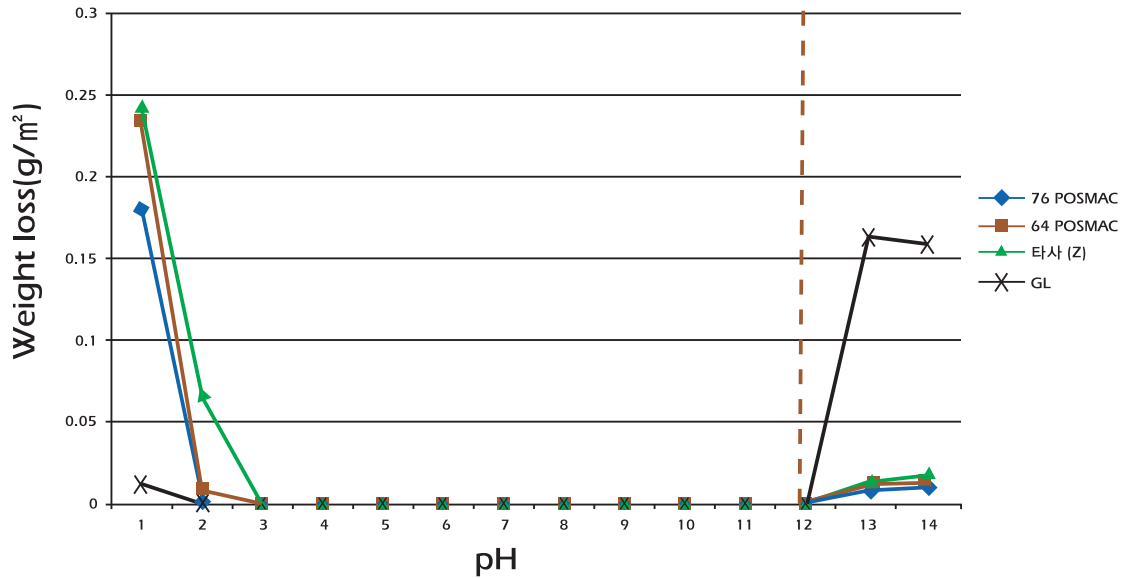
(두께): 600g/m<sup>2</sup>를 10um로 정의하여 계산  
\* FE-SEM 측정 결과



## POSMAC 내화학적 평가결과

### ② POSMAC 내산성/내알칼리성 평가결과

H<sub>2</sub>SO<sub>4</sub>와 NaOH으로 pH 1~14용액 만들어 24시간 침지 후 무게감량 측정



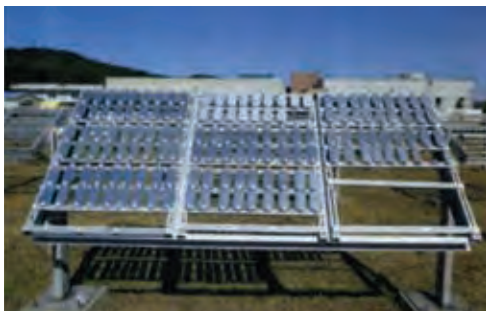
pH 1~3 강산성 구간에서 POSMAC이 타사재(Z) 대비 동등 이상의 양호한 내화학적 보임  
PH 12~14 강알칼리성 구간에서 POSMAC 및 타사재(Z) 모두 갈바륨 대비 우수한 내화학적 보임

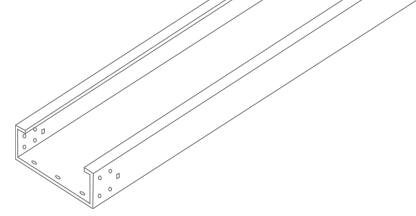
### 옥외 실증 평가 중간결과 (단면부 6개월 경과)

- 장소 : 한국건설생활환경시험연구원 옥외실증시험장 (서산)
- 기간 : '12.10.23 ~ (10년 계획)
- 테스트 시편 Size: 150×70mm<sup>2</sup> (1.2~4.0 mmt)
- 테스트 환경

기후조건	위도 (북위)	고도 (m)	평균온도 (°C)	평균상대습도 (%)	연강수량 (mm)	총일사량 (MJ/m <sup>2</sup> )
해양성 공업기후	36° 79'	11	12	71	1,629	5,773

### ■ 옥외폭로 거치대 사진





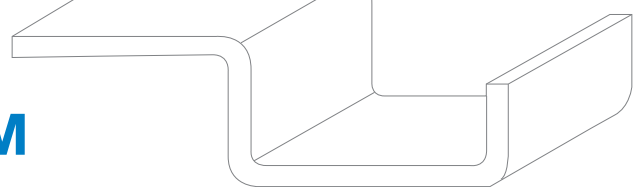
## 옥외 실증 평가 중간결과 (단면부 6개월 경과)

		180일 거오가 (6개월)	
POSMAC (1.6t, 120 g/m <sup>2</sup> )	좌		
	우		
ZAM (1.6t, 120 g/m <sup>2</sup> )	좌		
	우		
GI (1.6t, 180 g/m <sup>2</sup> )	좌		
	우		
Galvalume (1.6t, 120 g/m <sup>2</sup> )	좌		
	우		

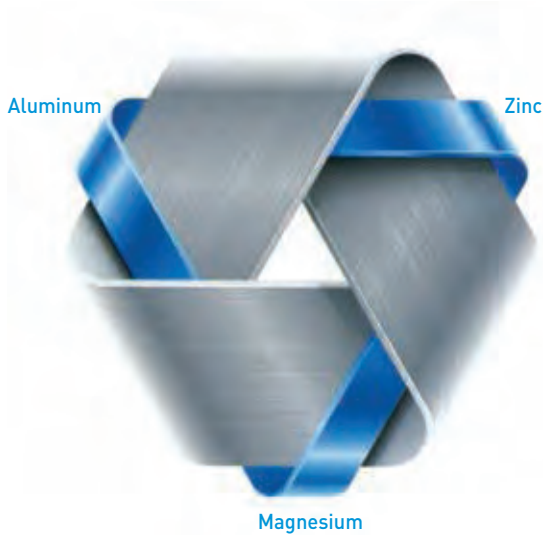
EASY TRAY

- ✓ 합금도금의 경우 초기 발생 적청면적 감소경향 (안정한 부식생성이 형성 → 적청 면적이 증가 억제)
- ✓ GI 및 GV는 옥외실증 지속적으로 적청면적이 증가

# CABLE TRAY SYSTEM



## What is GIX



GIX는 아연 알루미늄 마그네슘을 합금하여 철판에 용융도금한 제품으로, 고내식성을 요구하는 모든 용도에 적합하도록 설계되었습니다.

GIX의 합금도금은 오랜 기간의 테스트를 거쳐 검증된 최적의 알루미늄과 마그네의 비율로 구성되어 있습니다.

GIX는 기존 GI 대비 표면 외관이 미려하고, 내식성능이 5~7배 이상 우수한, 동국제강의 최상위 도금기술로 탄생된 제품입니다.

GIX

**94% Zinc**

**4% Aluminum**

**2% Magnesium**

### 내식성

GIX는 합금화된 마그네슘과 알루미늄의 효과로 인해 도금 표면은 물론, 절곡 가공과 현장 설치 등으로 발생하는 스크래치 부위와 전단면에서도 아연의 희생 부식방식을 안정된 상태에서 유지시키며, 우수한 내식 특성을 발휘합니다.

### 가공성

GIX는 롤포밍, 프레스, 용접 등 다양한 가공 시 GI 대비 월등한 성능을 발휘합니다.

기존 GI로 설계된 가공 및 조립 작업환경에 바로 적용이 가능합니다.

### 도장성

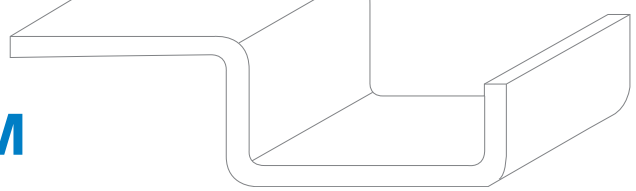
GIX는 도금 층과 도료의 접합력이 우수합니다.

건축 내외장재용 PCM 칼라강판의 소재와, 가공 후 분체 도장 용도의 원판으로 사용 시 우수한 성능을 발휘합니다.

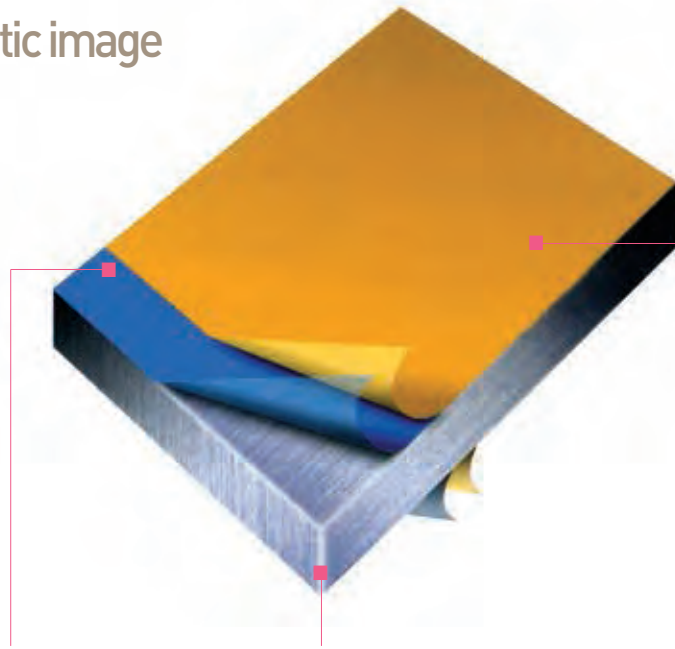
### 미려한 외관

GIX는 마그네슘과 알루미늄 첨가로 인해, Spangle이 미세화되고 광택도가 월등히 증가되어 GIX와 차별화된 외관을 구현합니다. 또한 우수한 내식 성능으로 추가적 도장 없이도 외장재로 사용이 가능하며, 특유의 금속 질감이 심미적 만족감을 주게 됩니다.

# CABLE TRAY SYSTEM



## Schematic image



후처리
Chromate Cr6+
Chromate Cr3+
Anti Finger Print (Cr-Free)
Anti Finger Print (Cr Type)
오일링 (Oiling)

GIX 도금층	
Zn-Al-Mg Alloy Coating	Coating Thickness
60g/m <sup>2</sup>	9μm
80g/m <sup>2</sup>	12μm
100g/m <sup>2</sup>	15μm
120g/m <sup>2</sup>	19μm
140g/m <sup>2</sup>	22μm
180g/m <sup>2</sup>	28μm
200g/m <sup>2</sup>	31μm
220g/m <sup>2</sup>	35μm
250g/m <sup>2</sup>	39μm
275g/m <sup>2</sup>	43μm
310g/m <sup>2</sup>	49μm

소지철 Spec	
두께	0.24 ~ 2.3mm
폭	600 ~ 1,270mm
길이	600 ~ 5,000mm
재질	CQ, CQ-Full, DQ, EDDQ, Gr-A,B,C,D,E

생산 Spec	
생산능력	300,000ton / 년
단중	22ton MAX
코일내경	508 ~ 610mm
코일외경	2,100mm MAX



## Certifications



■ 국내특허



■ 국내특허

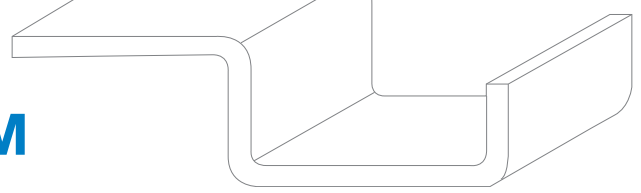


■ KS인증서



■ KS Certificate

# CABLE TRAY SYSTEM



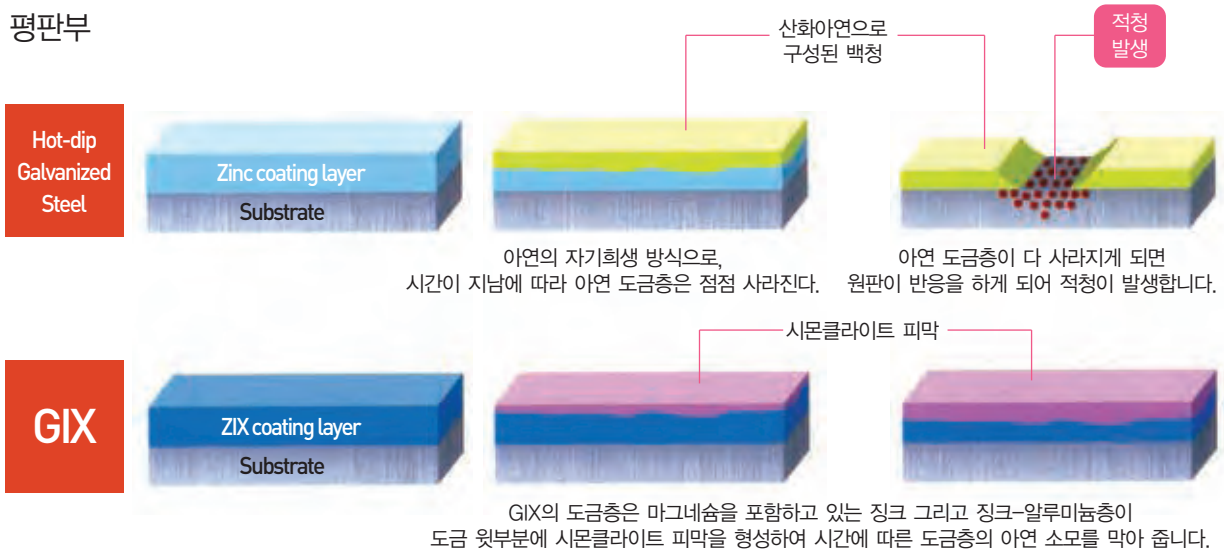
## GIX 도금층 구성 및 내식성 향상 Process

마그네슘이 포함된 도금층은 아연의 희생 방식 반응간에 매우 높은 안정성을 가지는 시몬클라이트(Simonkolleite -  $Zn_5(OH)_8Cl_2 \cdot H_2O$ )생성을 촉진 시킵니다.

### ■ GIX 전단면 도금층 구성도



### ■ GIX 부식방지 메카니즘 평판부

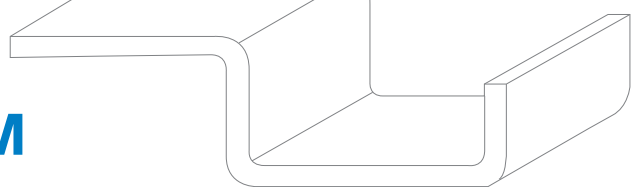


### 전단면 (전단면 염수분무 테스트 결과)

구분	1,000H 이상	3,000H 이상	결과
GI			기존 GI는 공기 중에 노출된 원판에 일부 적청이 발생하게 되면 부식이 멈추지 않고 계속적으로 진행됩니다.
GIX			반면 GIX는 전단면의 원판이 최초 공기 중에 노출이 되어 일부 적청이 발생한다 하더라도 GIX의 마그네슘을 포함한 징크 피막이 즉각적으로 노출 부위를 덮어 부식의 진행을 효과적으로 방지합니다.

※Test 제품 : 도금 부착량 300g / Cr 후처리 / 1.6T



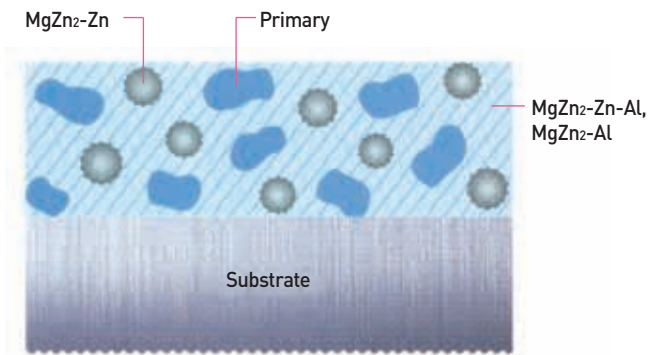


## Self-sealing

### Activate Mechanism

자가 치유 활성화 메카니즘

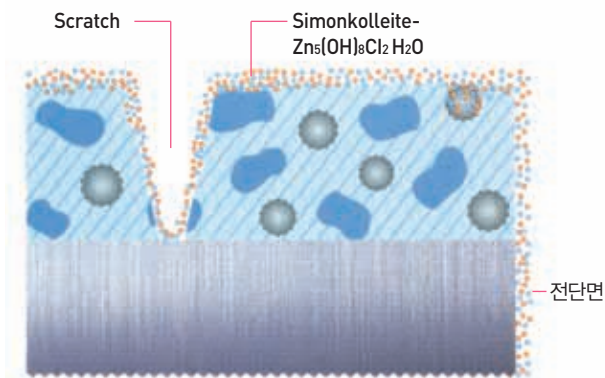
GIX는 전단면과 스크레치 부위에서 어떻게 소지철의 부식을 방지하는가?



1

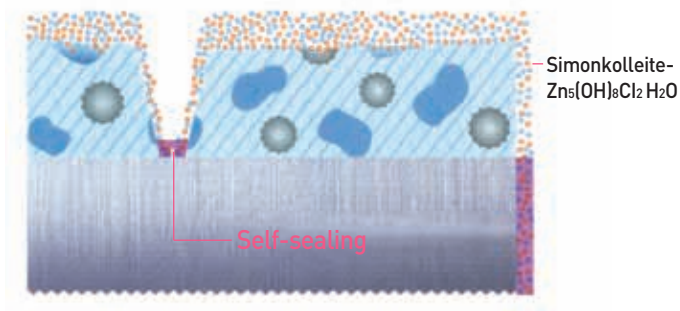
전체 도금층이 소지철을 효과적으로 보호하며, 부식을 방지합니다.

GIX가 외부에 설치되어, 자연상태에서 부식이 시작되면, 이때 마그네슘 합금(MgZn2)이 가장 먼저 반응하게 됩니다.



2

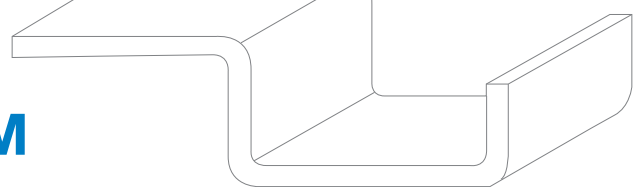
MgZn2는 부식 생성물인 시몬클라이트 형성을 촉진합니다. 이 시몬클라이트는 노출 부위에 피막과 같은 형태로 형성이 되며 이는 전단면 및 스크레치 부위에서 부식을 방지하는 역할을 합니다.



3

이후 도금층의 아연이 자기희생 부식으로 소비되고 일부 알루미늄은 부동태 피막 형태로 작용하면서 철 판을 외부 환경으로부터 보호합니다.

이러한 아연과 알루미늄, 마그네슘의 상호 작용은 소지철을 더 가혹한 환경에서 효과적으로 보호합니다.



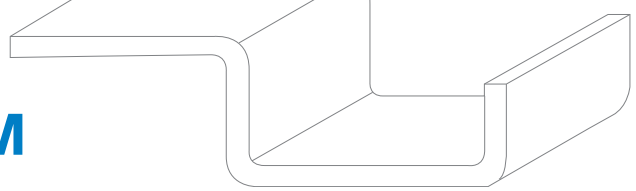
## 제품 내식성 비교

### ■ 평면 내식성 TEST 결과

※ 시험방법 : ASTM B117-73에 준함

구분	도금 부착량	500H 이상	1,000H 이상	1,500H 이상	2,000H 이상	3,000H 이상	3,500H 이상	4,000H 이상	5,000H 이상
GI	120g								
GIX	120g								
타사 삼원계 고내식 강판	120g								
GI	180g								
GIX	180g								
GI	275g								
GI (Chromate)	300g								
GIX	275g								

GIX



## ■ 전단면 내식성 TEST 결과

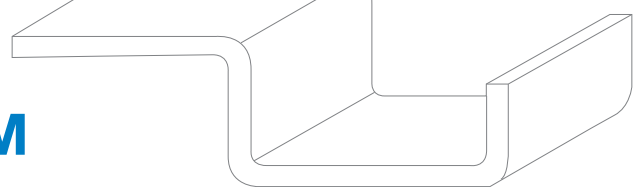
구분	도금 부착량 (두께)	500H 이상	1,000H 이상	1,500H 이상	2,000H 이상	3,000H 이상	3,500H 이상	4,000H 이상
GI	120g (0.8T)							
GIX	120g (0.8T)							
GI	180g (0.8T)							
GIX	180g (0.8T)							
GI	275g (1.0T)							
GIX	275g (1.0T)							
GI (Chromate)	300g (1.6T)							
GIX	120g (0.5T)							
타사 삼원계 고내식 강판	120g (0.5T)							

GIX

## ■ OT Bending 가공부 내식성 TEST 결과

※ Test 제품 두께 : 0.6T

구분	도금 부착량	500H 이상	1,000H 이상	1,500H 이상	3,000H 이상	3,500H 이상
GI	120g					
GIX	120g					
타사 삼원계 고내식 강판	120g					



## PIPE 용접부 내식성 TEST 결과

구분	도금부착량 300g/m <sup>2</sup> + 조관수지	
	GI	GIX
200H 이상		
500H 이상		
1,000H 이상		
2,000H 이상		
5,000H 이상		

※ 시험방법 : 촉진 5%염수 Test (Cycle Spray - 8시간 분무 16시간 휴지)

GIX

## 적용사례

### 칼라 원판 활용

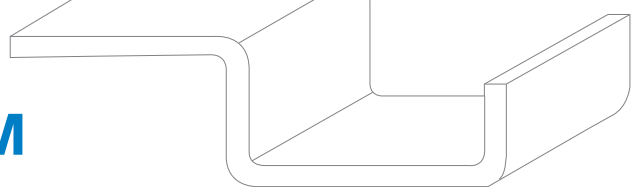


GIX는 다양한 칼라제품의 원판으로 활용 시 그 성능이 배가 되어 기존 동일 도금량의 GI 도장 제품에 비해 사용 연한을 대폭 늘려 주며 해안가를 포함한혹독한 환경에서 최상의 성능을 발휘합니다.

동국제강의 최상위 도장 기술과 GIX가 결합된 고성능 Luxteel 을 경험해 보시기 바랍니다.



# CABLE TRAY SYSTEM



## 건설 소재 (Building structures)



GIX는 가혹한 환경에 항상 노출이 되어 있는 태양광 패널의 구조체에 더 발전된 솔루션을 제시하여 깨끗하고 재생 가능한 에너지 생산에 기여합니다.

또한 건축물의 벽면, 빗물 받이, 구조용 경량 철골 그리고 도로의 사이드 레일과 같이 다양한 건축 용도에 적합하며 특히 부식에 취약한 해안지역 및 농업용 건축물에 활용 시 월등한 내식 성능을 발휘합니다.



## 농업 소재 (Agricultural equipment)



GIX는 다양한 종류의 농업용 자재에도 사용이 가능합니다. 포도밭을 포함한 각종 지지대 및 비닐하우스용 파이프 등에 사용이 되어 제품의 사용 연한을 극대화 시킵니다.

특히 암모니아 가스가 많이 배출되는 양계장을 포함한 각종 축사에 사용 시 보다 높은 내구성을 발휘합니다. 또한 동일 내식 능력의 GI 대비 아연의 사용량을 현저히 줄여 환경에 미치는 영향을 최소화합니다.

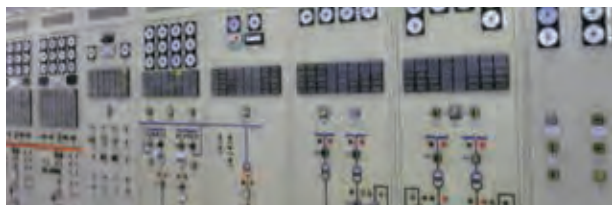


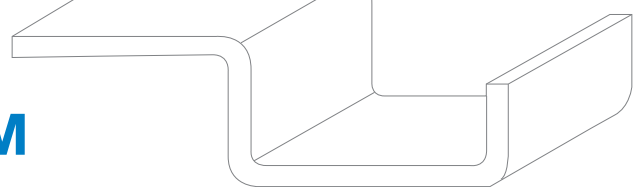
## 가전용 고내식 소재 (Electrical machinery)



GIX는 높은 도장성, 내식성을 바탕으로 다양한 가전용 및 기타 전기장치에도 사용이 가능하며, 기존 GI 대비 사용 연한을 대폭 상승시켜 줍니다.

또한 GIX의 높은 가공성으로 인해 다양한 형태로 제품이 활용 가능합니다.





## 치수 허용차

### ■ 두께 허용차 (Thickness Tolerances)

표시 두께 (Thickness)	폭 (Width)		
	$W < 630$	$630 \leq W < 1,000$	$1,000 \leq W < 1,270$
$T < 0.25$ 미만	$\pm 0.04$	$\pm 0.04$	$\pm 0.04$
$0.25 \leq T < 0.40$	$\pm 0.05$	$\pm 0.05$	$\pm 0.05$
$0.40 \leq T < 0.60$	$\pm 0.06$	$\pm 0.06$	$\pm 0.06$
$0.60 \leq T < 0.80$	$\pm 0.07$	$\pm 0.07$	$\pm 0.07$
$0.80 \leq T < 1.00$	$\pm 0.07$	$\pm 0.07$	$\pm 0.08$
$1.00 \leq T < 1.25$	$\pm 0.08$	$\pm 0.08$	$\pm 0.09$
$1.25 \leq T < 1.60$	$\pm 0.09$	$\pm 0.10$	$\pm 0.11$
$1.60 \leq T < 2.00$	$\pm 0.11$	$\pm 0.12$	$\pm 0.13$
$2.00 \leq T < 2.30$	$\pm 0.13$	$\pm 0.14$	$\pm 0.15$
$2.30 \leq T$	$\pm 0.15$	$\pm 0.16$	$\pm 0.17$

### ■ 폭 허용차 (Width Tolerances)

냉연원판을 사용한 경우	
$W \leq 1,500$	$W \leq 1,500$
0, + 7	0, + 10

### ■ 길이 허용차 (Length Tolerances)

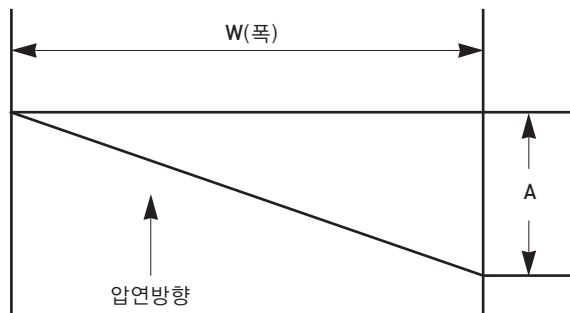
냉연원판을 사용한 경우
0, + 15

### ■ 형상 허용차

#### 직선도

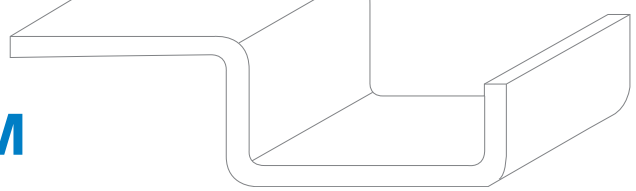
폭 (Width)	종류		
	만곡 (Bow)	외곡 (Edge Wave)	중곡 (Center Wave)
$W < 1,000$	12 이하	8 이하	6 이하
$1,000 \leq W < 1,250$	15 이하	9 이하	8 이하
$1,250 \leq W < 1,600$	15 이하	11 이하	8 이하

#### 직선도

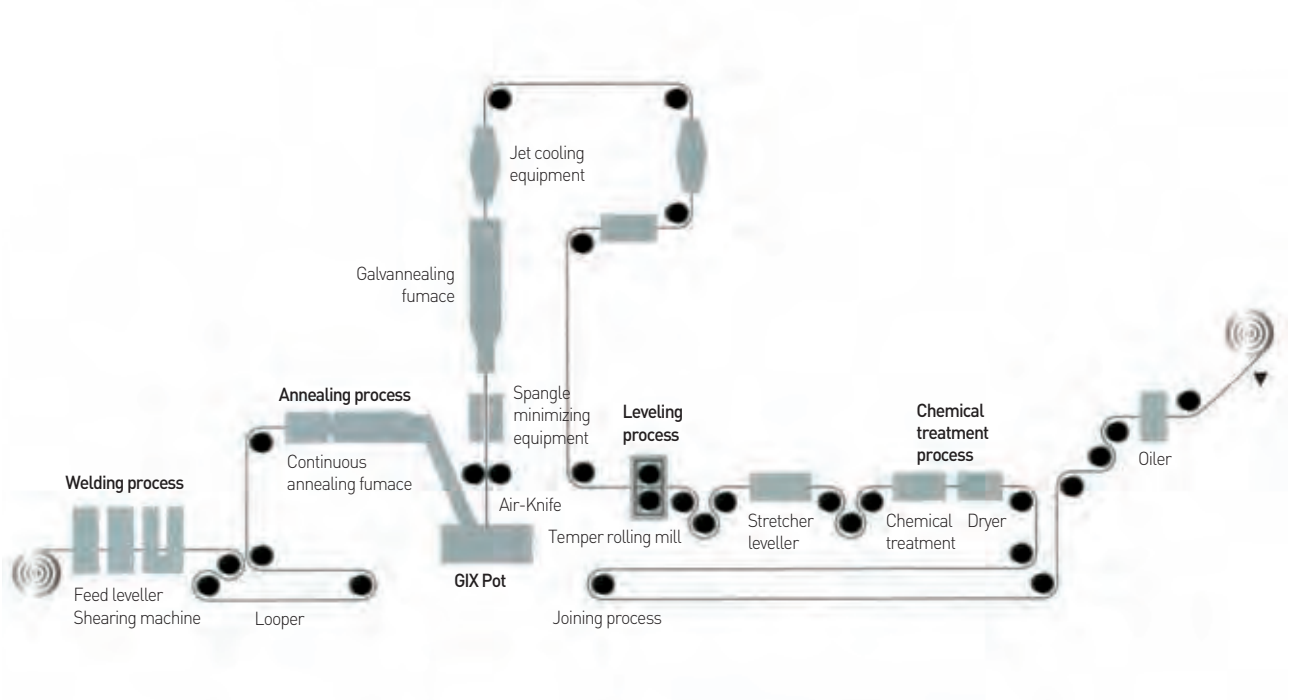


직각도는 그림의  $A/W \times 100(\%)$ 로 표시하며, 1%를 초과하여서는 안 된다.

# CABLE TRAY SYSTEM



## GIX 생산 Process

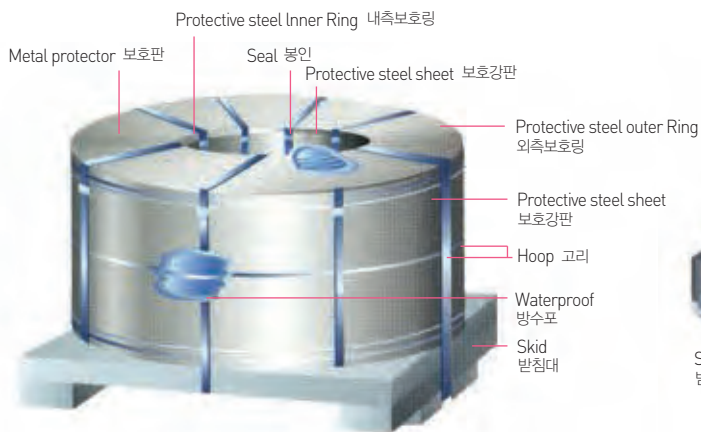


GIX

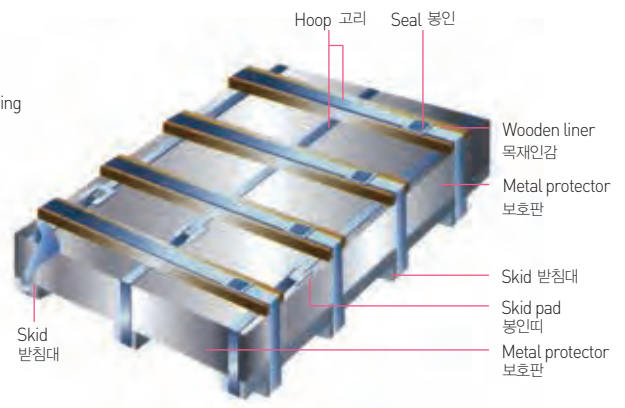
## 기준초장



■ Horizontal Type

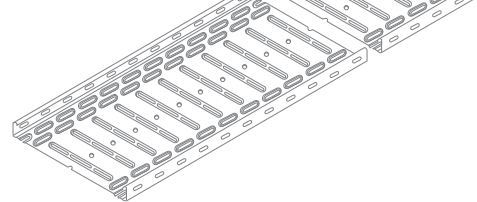


■ Vertical Type

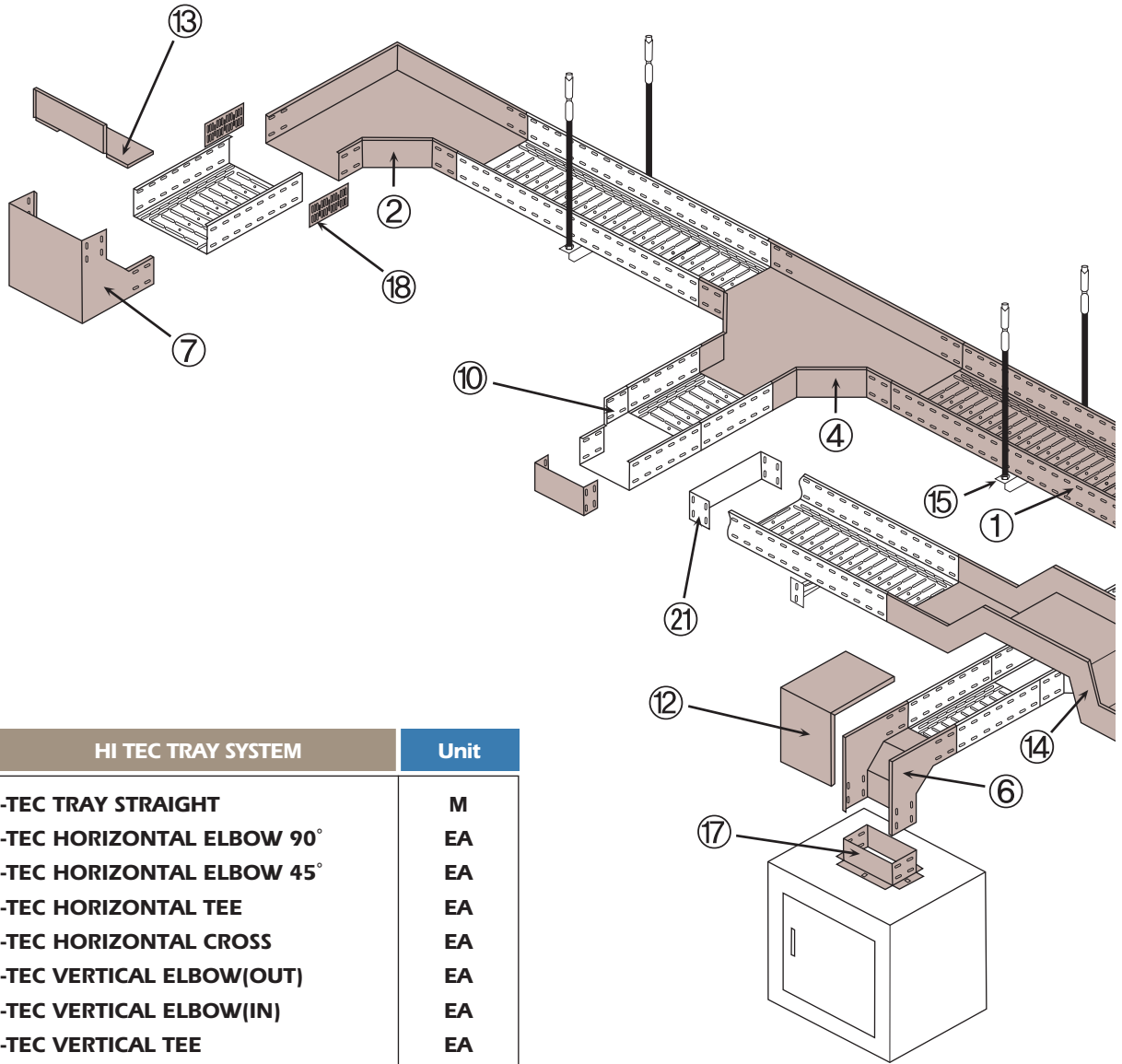


■ Sheet

# CABLE TRAY SYSTEM



## HI TEC TRAY

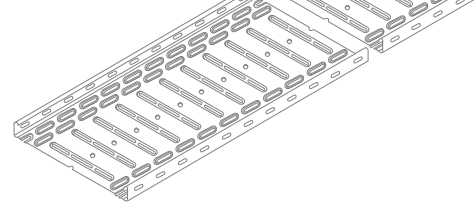


HI TEC TRAY

HI TEC TRAY SYSTEM	Unit
① HI-TEC TRAY STRAIGHT	M
② HI-TEC HORIZONTAL ELBOW 90°	EA
③ HI-TEC HORIZONTAL ELBOW 45°	EA
④ HI-TEC HORIZONTAL TEE	EA
⑤ HI-TEC HORIZONTAL CROSS	EA
⑥ HI-TEC VERTICAL ELBOW(OUT)	EA
⑦ HI-TEC VERTICAL ELBOW(IN)	EA
⑧ HI-TEC VERTICAL TEE	EA
⑨ HI-TEC VERTICAL TEE	EA
⑩ HI-TEC REDUCER (LEFT TYPE)	EA
⑪ HI-TEC STRAIGHT COVER	M
⑫ HI-TEC VERTICAL ELBOW COVER(OUT)	EA
⑬ HI-TEC VERTICAL ELBOW COVER(IN)	EA
⑭ HI-TEC Z-VERTICAL ELBOW	EA
⑮ HI-TEC BEARING ANGLE	EA
⑯ HI-TEC JOINER SET	EA
⑰ HI-TEC BOX Con'n	EA
⑱ HI-TEC STRAIGHT Con'n	EA
⑲ HI-TEC VARIABLE BRACKET(HI-TEC)	EA
⑳ HI-TEC FIXED BRACKET(HI-TEC)	EA
㉑ HI-TEC END CAP	EA
㉒ HI-TEC END PLATE	EA

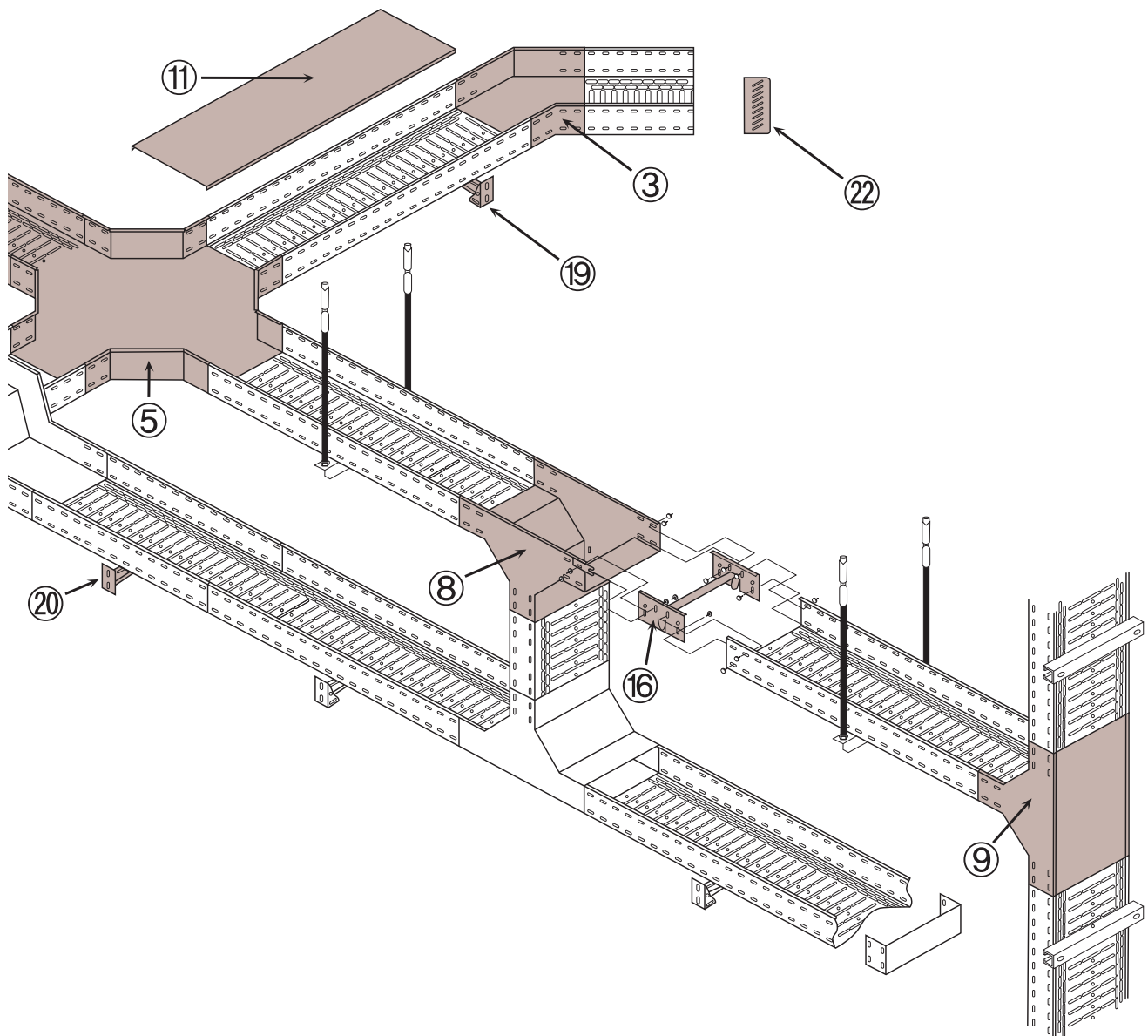


# CABLE TRAY SYSTEM



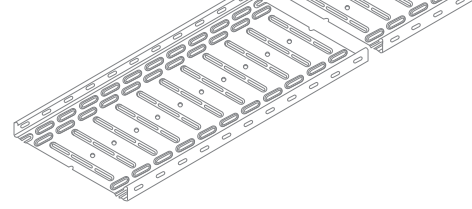
## HI TEC TRAY

- Materials: KS D 3506
- Finishes: Powder Coating
- Standard Unit Length: 3,000mm
- Thickness: 1.0t, 1.2t

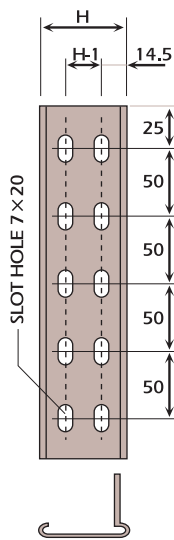


HI TEC TRAY

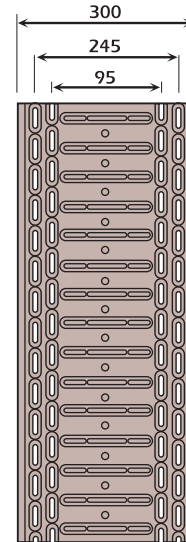
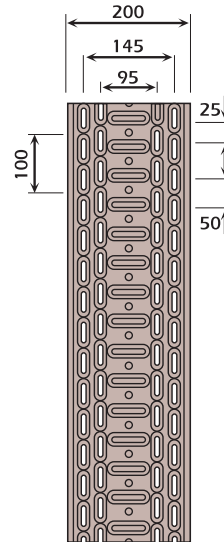
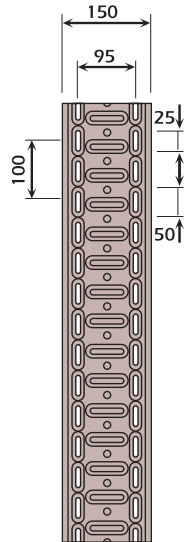
# CABLE TRAY SYSTEM



## HI TEC TRAY SIDE-PATTERN



## BOTTOM-PATTERN



■ W : 150TYPE

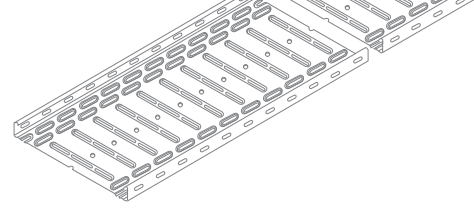
■ W : 200TYPE

■ W : 300TYPE

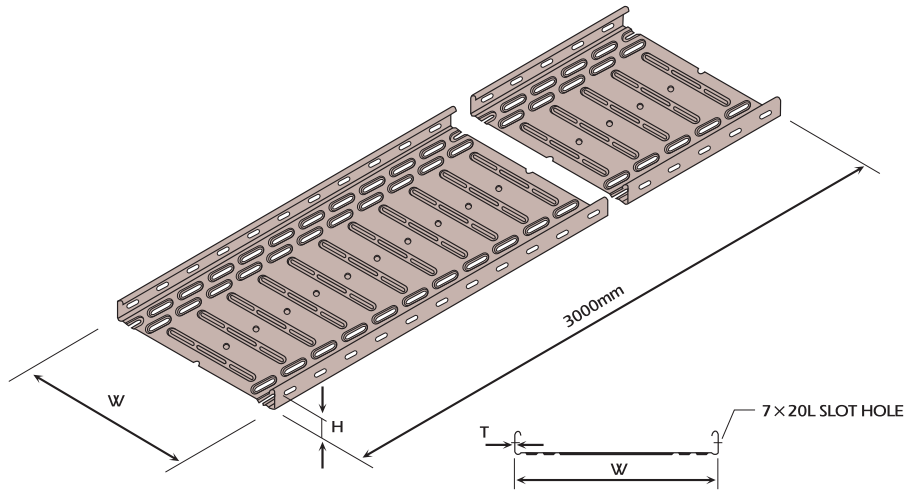
HI TEC TRAY

CATALOG NO.	BODY		COVER	FINISH		Remark
	SIDE RAIL			Cold rolled steel sheet+Hot dip galvanize	galvanized sheet iron+powder coating	
	W(Width)	H(Height)	Page			
HTST 0100100035	100	H35-H100	1.0	1.0	<input type="radio"/>	<input type="radio"/>
HTST 0100150035	150				<input type="radio"/>	<input type="radio"/>
HTST 0100200035	200				<input type="radio"/>	<input type="radio"/>
HTST 0100300035	300				<input type="radio"/>	<input type="radio"/>
HTST 0100400035	400	H35-H150	1.2	1.2	<input type="radio"/>	<input type="radio"/>
HTST 0100450035	450				<input type="radio"/>	<input type="radio"/>
HTST 0100500035	500				<input type="radio"/>	<input type="radio"/>
HTST 0100600035	600				<input type="radio"/>	<input type="radio"/>
HTST 0100750035	750	H35-H150	1.6	1.6	<input type="radio"/>	<input type="radio"/>
HTST 0100900035	900				<input type="radio"/>	<input type="radio"/>
HTST 01010000035	1000				<input type="radio"/>	<input type="radio"/>

# CABLE TRAY SYSTEM



## HI TEC TRAY

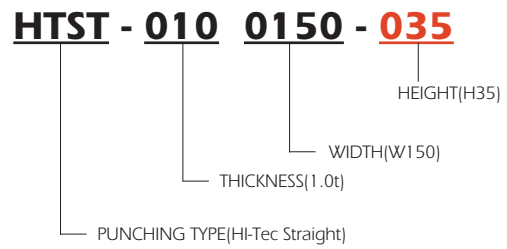


HI TEC TRAY

UNIT : mm

CATALOG NO.	W(Width)	H(Height)	T(Thickness)
HTST 0100100035	100	35	1.0
HTST 0100150035	150		
HTST 0100200035	200		
HTST 0100300035	300		
HTST 0100400035	400		
HTST 0100450035	450		1.2
HTST 0100500035	500		
HTST 0100600035	600		

### ► NUMBERING SYSTEM

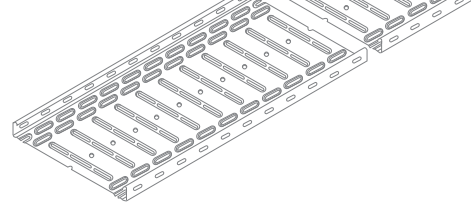


### ► ELEMENTS OF SECTION

UNIT : mm

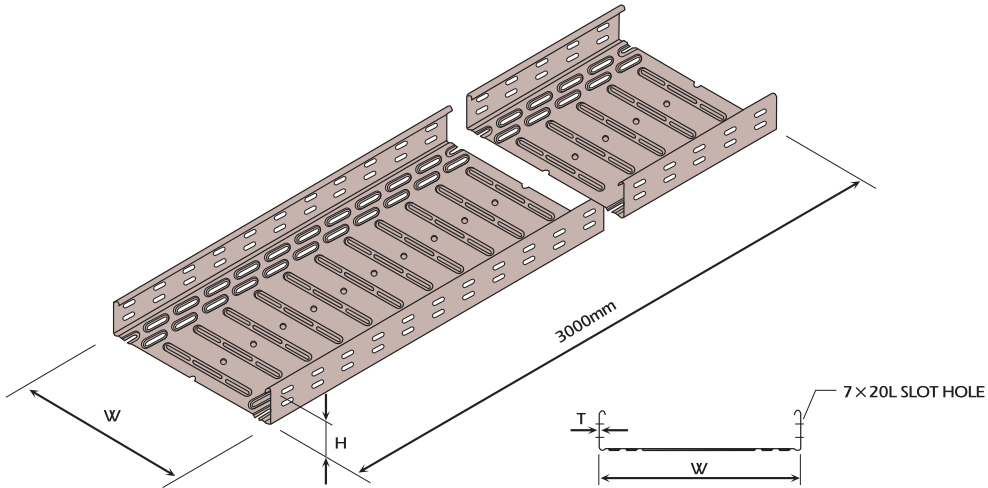
WIDTH(mm)	AREA OF SECTION
150	4,800mm <sup>2</sup>
200	6,500mm <sup>2</sup>
300	9,800mm <sup>2</sup>
400	12,900mm <sup>2</sup>

# CABLE TRAY SYSTEM



## HI TEC TRAY

H60



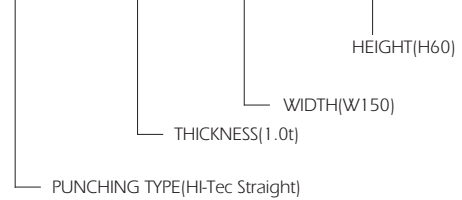
HI TEC TRAY

UNIT : mm

CATALOG NO.	W(Width)	H(Height)	T(Thickness)
HTST 0100100060	100	60	1.0
HTST 0100150060	150		
HTST 0100200060	200		
HTST 0100300060	300		
HTST 0100400060	400		1.2
HTST 0100450060	450		
HTST 0100500060	500		
HTST 0100600006	600		

## NUMBERING SYSTEM

**HTST - 010 0150 - 060**

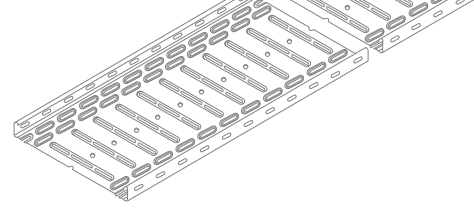


## ELEMENTS OF SECTION

UNIT : mm

WIDTH(mm)	AREA OF SECTION
150	8,500mm <sup>2</sup>
200	11,400mm <sup>2</sup>
300	17,200mm <sup>2</sup>
400	22,900mm <sup>2</sup>
500	28,600mm <sup>2</sup>
600	34,400mm <sup>2</sup>

# CABLE TRAY SYSTEM

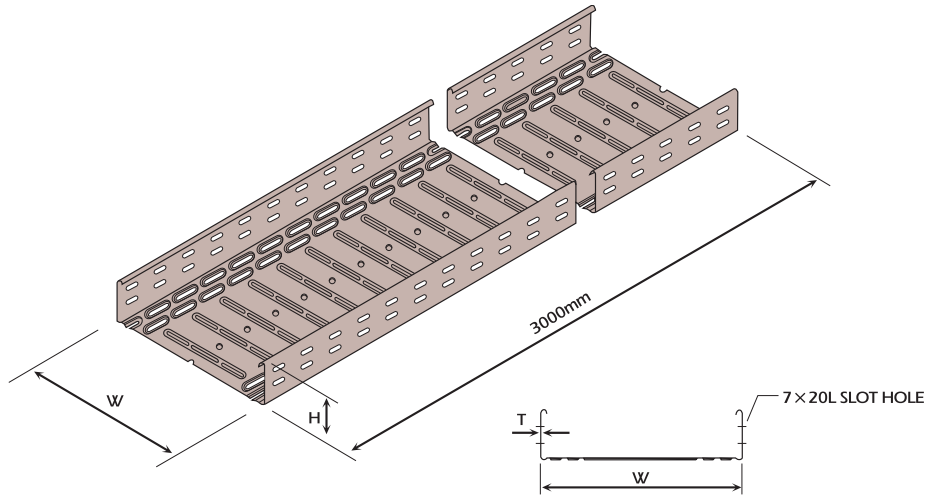


## HI TEC TRAY

H75



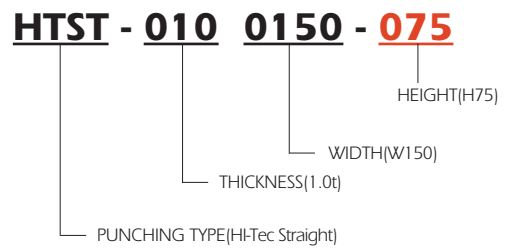
KSC 8464



UNIT : mm

CATALOG NO.	W(Width)	H(Height)	T(Thickness)
HTST 0100100075	100	75	1.0
HTST 0100150075	150		
HTST 0100200075	200		
HTST 0100300075	300		
HTST 0120400075	400		
HTST 0120450075	450		1.2
HTST 0120500075	500		
HTST 0120600075	600		
HTST 0160750075	750		1.6
HTST 0160900075	900		
HTST 01601000075	1000		

## ► NUMBERING SYSTEM

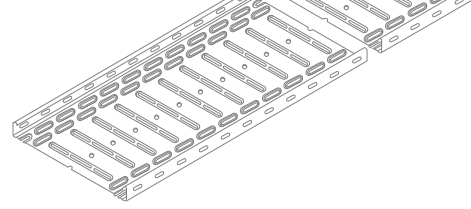


## ► ELEMENTS OF SECTION

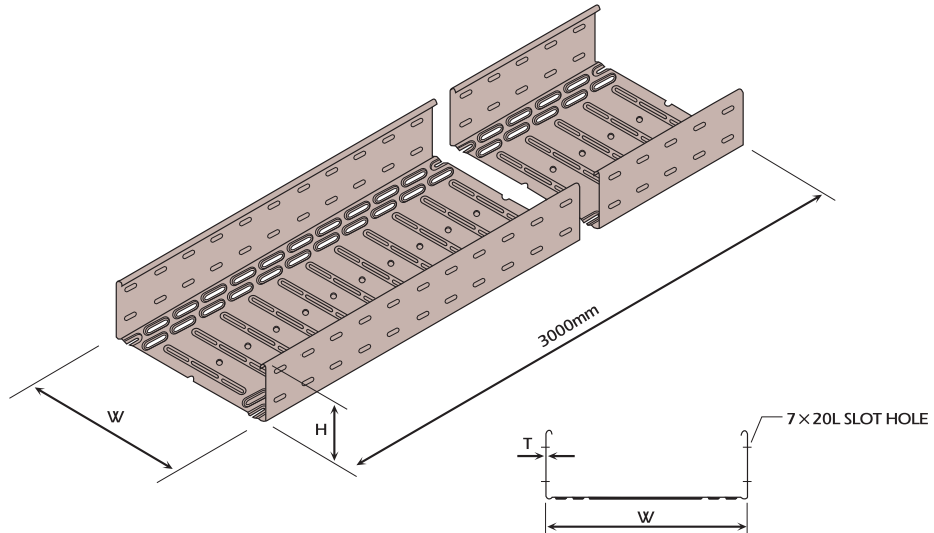
UNIT : mm

WIDTH(mm)	AREA OF SECTION
150	10,800mm <sup>2</sup>
200	14,400mm <sup>2</sup>
300	21,700mm <sup>2</sup>
400	28,800mm <sup>2</sup>
500	36,100mm <sup>2</sup>
600	43,300mm <sup>2</sup>

# CABLE TRAY SYSTEM



## HI TEC TRAY



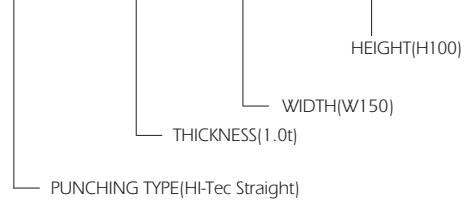
HI TEC TRAY

UNIT : mm

CATALOG NO.	W(Width)	H(Height)	T(Thickness)
HTST 0100100100	100	100	1.0
HTST 0100150100	150		
HTST 0100200100	200		
HTST 0100300100	300		1.2
HTST 0120400100	400		
HTST 0120450100	450		
HTST 0120500100	500		
HTST 0120600100	600		1.6
HTST 0160750100	750		
HTST 0160900100	900		
HTST 01601000100	1000		

### NUMBERING SYSTEM

**HTST - 010 0150 - 100**

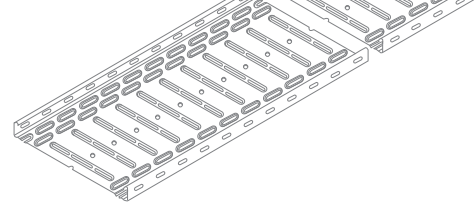


### ELEMENTS OF SECTION

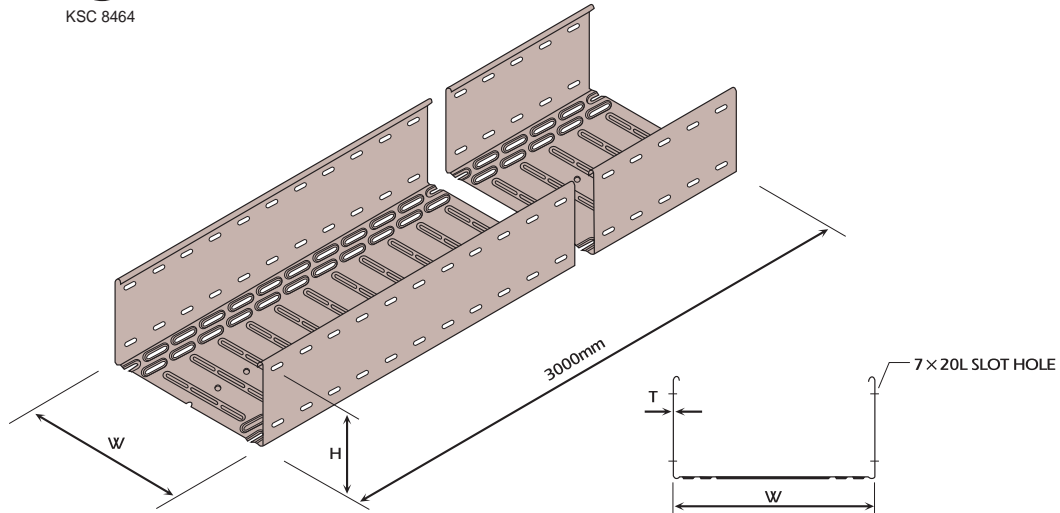
UNIT : mm

WIDTH(mm)	AREA OF SECTION
150	14,500mm <sup>2</sup>
200	19,400mm <sup>2</sup>
300	29,200mm <sup>2</sup>
400	38,800mm <sup>2</sup>
500	48,500mm <sup>2</sup>
600	58,300mm <sup>2</sup>

# CABLE TRAY SYSTEM



## HI TEC TRAY

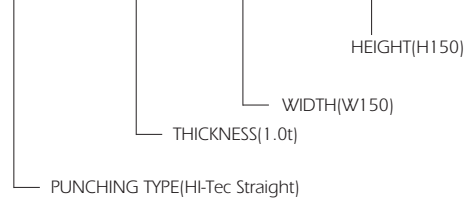


UNIT : mm

CATALOG NO.	W(Width)	H(Height)	T(Thickness)
HTST 0100150150	150	150	1.0
HTST 0100200150	200		
HTST 0100300150	300		1.2
HTST 0100400150	400		
HTST 0120450150	450		
HTST 0120500150	500		1.6
HTST 0120600150	600		
HTST 0120750150	750		
HTST 0160800150	800		
HTST 0160900150	900		

## NUMBERING SYSTEM

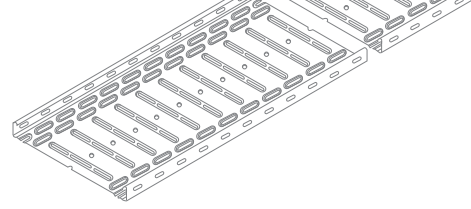
**HTST - 010 0150 - 150**



## ELEMENTS OF SECTION

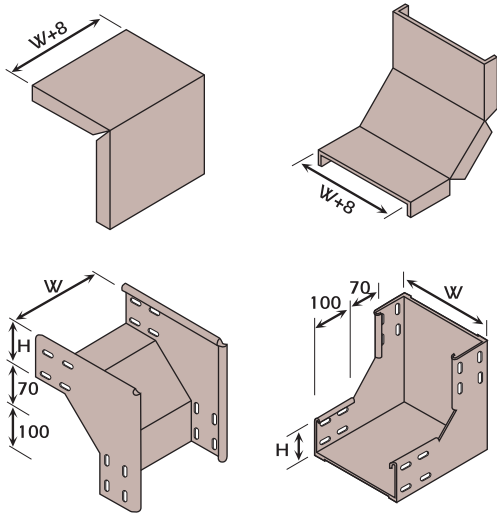
UNIT : mm

WIDTH(mm)	AREA OF SECTION
300	44,100mm <sup>2</sup>
400	58,600mm <sup>2</sup>
500	73,400mm <sup>2</sup>
600	88,200mm <sup>2</sup>

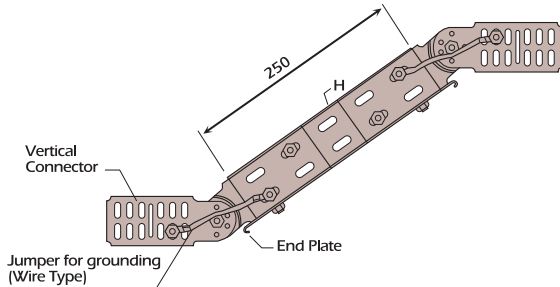


## HI TEC TRAY FITTING

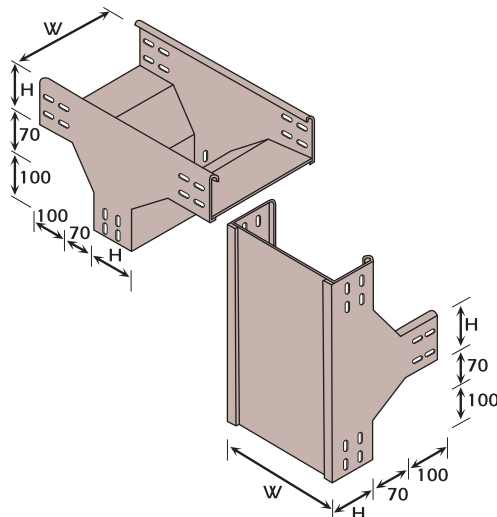
### VERTICAL ELBOW(IN,OUT)



### RISER ELBOW



### VERTICAL TEE



UNIT : mm

CATALOG NO.		W (Width)	H (Height)	T (Thickness)
IN SIDE	OUT SIDE			
HTVI 9100100100	HTVO 9100100100	100	35	1.0
HTVI 9100150100	HTVO 9100150100	150		
HTVI 9100200100	HTVO 9100200100	200		
HTVI 9100300100	HTVO 9100300100	300	60	
HTVI 9120400100	HTVO 9120400100	400		
HTVI 9100450100	HTVO 9100450100	450	70	
HTVI 9120500100	HTVO 9120500100	500		
HTVI 9120600100	HTVO 9120600100	600	100	
HTVI 9160750100	HTVO 9160750100	750		
HTVI 9160900100	HTVO 9160900100	900	150	
HTVI 91601000100	HTVO 91601000100	1000		

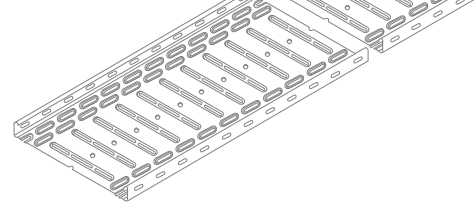
UNIT : mm

CATALOG NO.	W (Width)	H (Height)	T (Thickness)
HTVB 0100100	100	35	1.0
HTVB 0150100	150		
HTVB 0200100	200		
HTVB 0300100	300	60	
HTVB 0400100	400		
HTVB 0450100	450	70	
HTVB 0500100	500		
HTVB 0600100	600	100	
HTVB 0750100	750		
HTVB 0900100	900	150	
HTVB 01000100	1000		

UNIT : mm

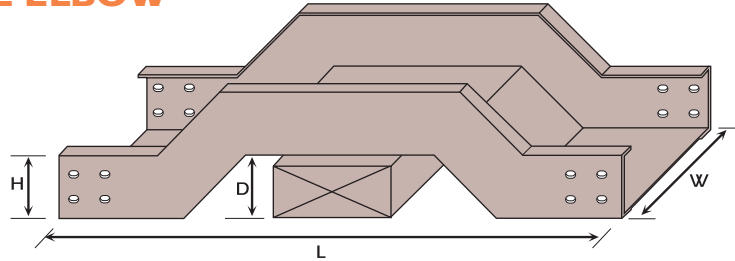
CATALOG NO.		W (Width)	H (Height)	T (Thickness)
입상(UP)	입하(DOWN)			
HTVU 0100100100	HTVD 0100100100	100	35	1.0
HTVU 0100150100	HTVD 0100150100	150		
HTVU 0100200100	HTVD 0100200100	200		
HTVU 0100300100	HTVD 0100300100	300	60	
HTVU 0120400100	HTVD 0120400100	400		
HTVU 0100450100	HTVD 0100450100	450	70	
HTVU 0120500100	HTVD 0120500100	500		
HTVU 0120600100	HTVD 0120600100	600	100	
HTVU 0160750100	HTVD 0160750100	750		
HTVU 0160900100	HTVD 0160900100	900	150	
HTVU 01601000100	HTVD 01601000100	1000		





## HI TEC TRAY FITTING

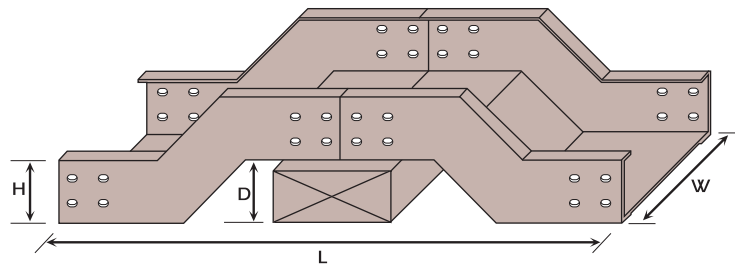
### Z-VERTICAL ELBOW



UNIT : mm

CATALOG NO.	W(Width)	H(Height)	D(Depth)	L(Length)
HTZV(G) A0150100	150	100	주문사양	주문사양

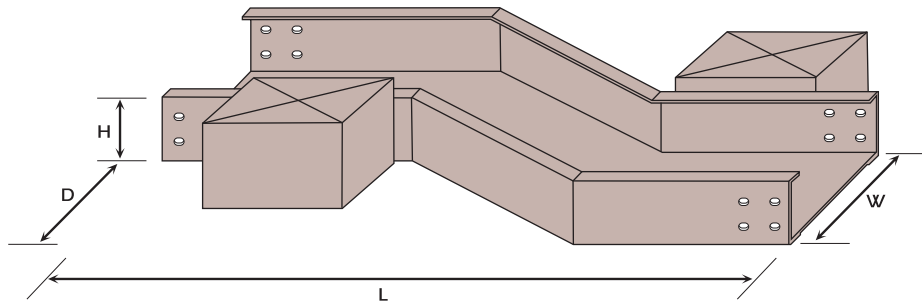
### Z-VERTICAL ELBOW(Joint Section Type)



UNIT : mm

CATALOG NO.	W(Width)	H(Height)	D(Depth)	L(Length)
HTZV(J) A0150100	150	100	주문사양	주문사양

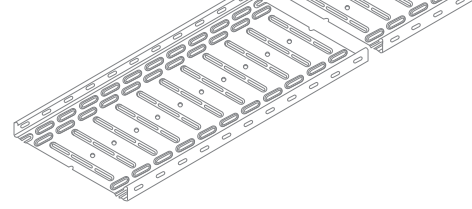
### S-HORIZONTAL ELBOW



UNIT : mm

CATALOG NO.	W(Width)	H(Height)	D(Depth)	L(Length)
HTSHE A0150100	150	100	주문사양	주문사양

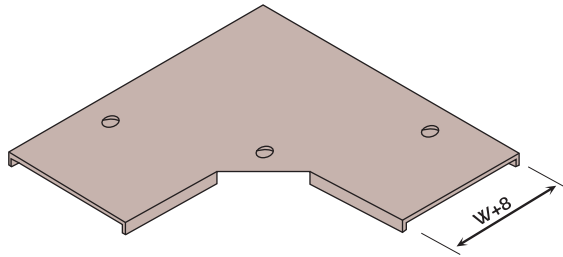
# CABLE TRAY SYSTEM



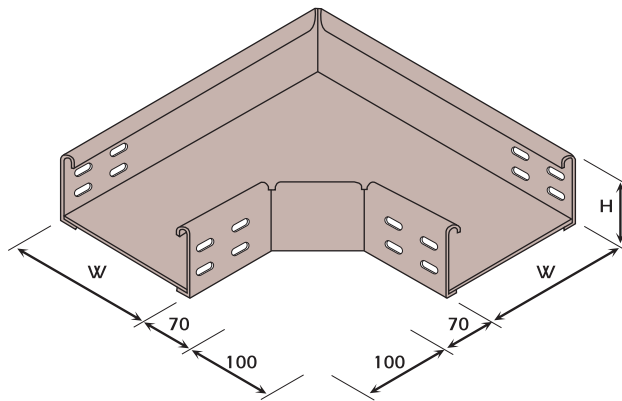
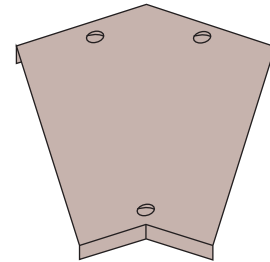
## HI TEC TRAY FITTING

### HORIZONTAL ELBOW 90°

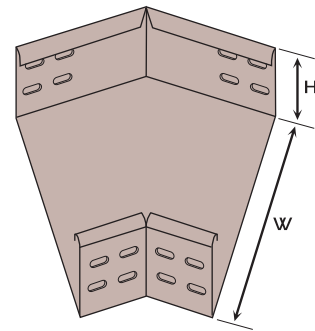
### HORIZONTAL ELBOW 45°



■ COVER



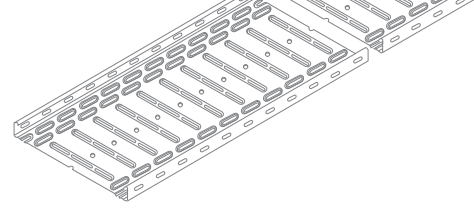
■ BODY



HI TEC TRAY

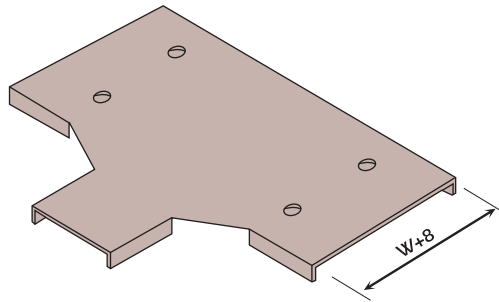
UNIT : mm

CATALOG NO.		W(Width)	H(Height)	T(Thickness)
90°	45°			
HTHE9 100100100	HTHE4 100100100	100	35	1.0
HTHE9 100150100	HTHE4 100150100	150		
HTHE9 100200100	HTHE4 100200100	200		
HTHE9 100300100	HTHE4 100300100	300	60	1.2
HTHE9 120400100	HTHE4 120400100	400		
HTHE9 100450100	HTHE4 100450100	450	70	1.2
HTHE9 120500100	HTHE4 120500100	500		
HTHE9 120600100	HTHE4 120600100	600	100	1.2
HTHE9 160750100	HTHE4 160750100	750		
HTHE9 160900100	HTHE4 160900100	900	150	1.6
HTHE9 1601000100	HTHE4 1601000100	1000		



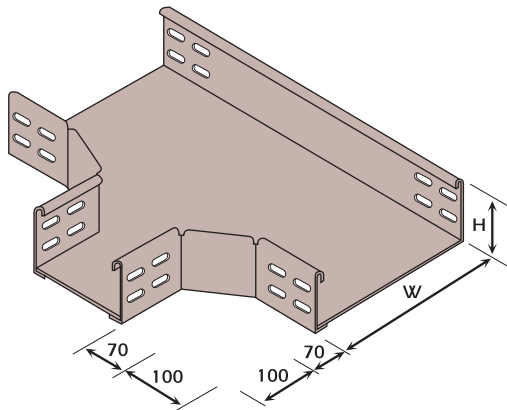
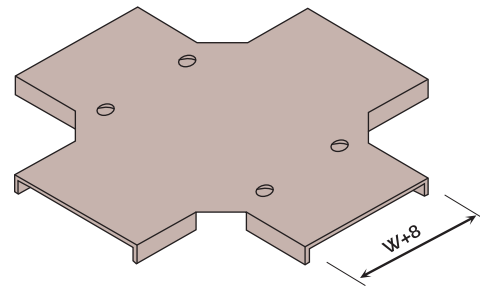
## HI TEC TRAY FITTING

### HORIZONTAL TEE

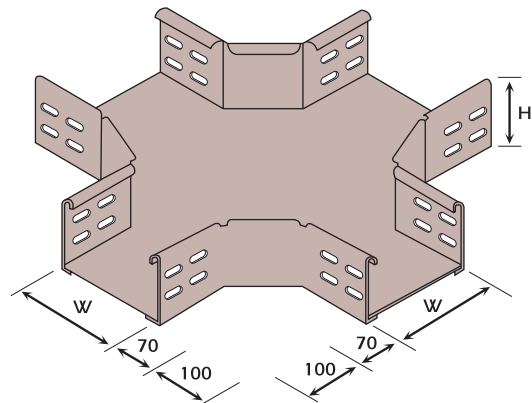


■ COVER

### HORIZONTAL CROSS



■ BODY

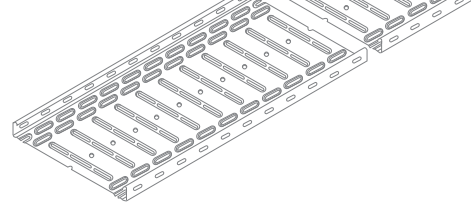


HI TEC TRAY

UNIT : mm

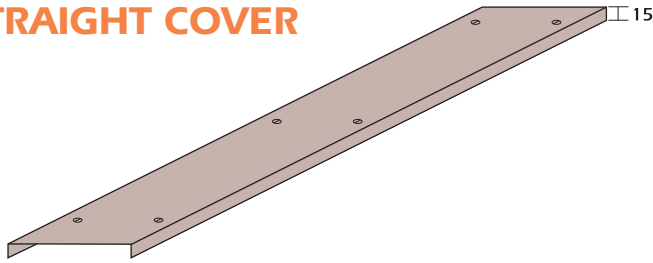
CATALOG NO.		W(Width)	H(Height)	T(Thickness)
HORIZONTAL TEE	HORIZONTAL CROSS			
HTHT 0100100100	HTHC 0100100100	100	35	1.0
HTHT 0100150100	HTHC 0100150100	150		
HTHT 0100200100	HTHC 0100200100	200	60	
HTHT 0100300100	HTHC 0100300100	300		
HTHT 0120400100	HTHC 0120400100	400	70	
HTHT 0100450100	HTHC 0100450100	450		
HTHT 0120500100	HTHC 0120500100	500	100	1.2
HTHT 0120600100	HTHC 0120600100	600		
HTHT 0160750100	HTHC 0160750100	750	150	
HTHT 0160900100	HTHC 0160900100	900		1.6
HTHT 01601000100	HTHC 01601000100	1000		

# CABLE TRAY SYSTEM

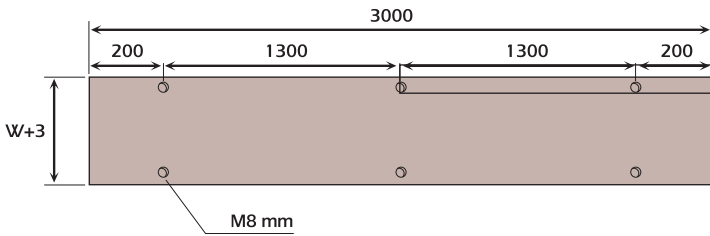


## HI TEC TRAY FITTING STRAIGHT COVER

UNIT : mm

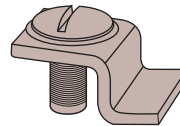
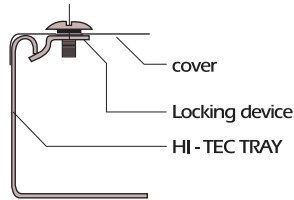


CATALOG NO.	W(Width)	T(Thickness)
HTSTF A100100	100	1.0
HTSTF A100150	150	
HTSTF A100200	200	
HTSTF A100300	300	
HTSTF A100400	400	1.2
HTSTF A100450	450	
HTSTF A120500	500	1.6
HTSTF A120600	600	
HTSTF A120750	750	
HTSTF A100900	900	
HTSTF A1001000	1000	



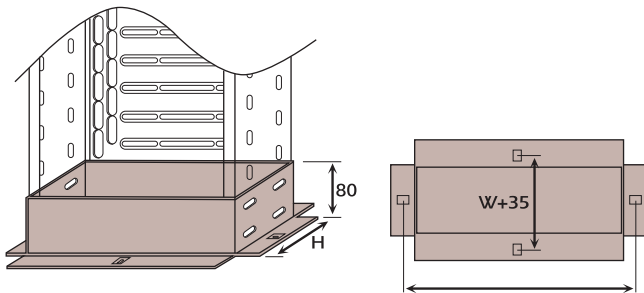
HI TEC TRAY

## LOCKING DEVICE

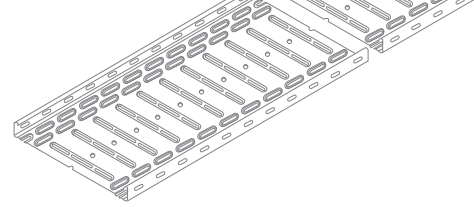


## BOX CO'n'n

UNIT : mm

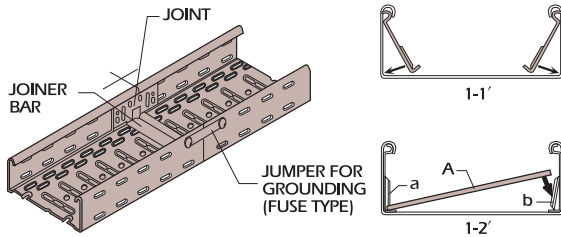
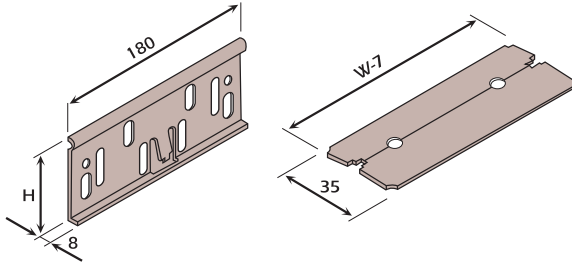


CATALOG NO.	W(Width)	H(Height)	T(Thickness)
HTBX 0200100	200	35	1.0
HTBX 0300100	300	60	
HTBX 0400100	400	75	1.2
HTBX 0500100	500	100	
HTBX 0600100	600	150	1.6



## HI TEC TRAY FITTING

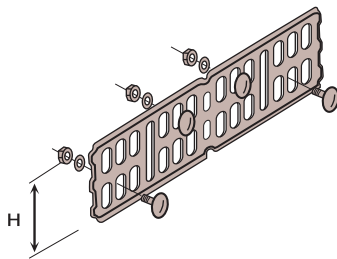
### JOINER SET



UNIT : mm

CATALOG NO.	W (Width)	H (Height)	T(Thickness)	
			Joiner	Bar
HTJS 0100100100	100	35 60 70 100 150	1.6	1.6
HTJS 0100150100	150			
HTJS 0100200100	200			
HTJS 0100300100	300			
HTJS 0120400100	400			
HTJS 0100450100	450			
HTJS 0120500100	500			
HTJS 0120600100	600			
HTJS 0160750100	750			
HTJS 0160900100	900			
HTJS 01601000100	1000			

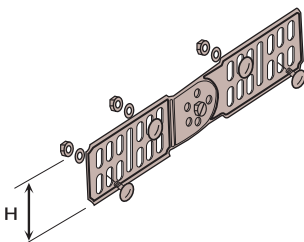
### STRAIGHT Con'n



UNIT : mm

CATALOG NO.	W(Width)	T(Thickness)
HTSC A000075	75	1.6
HTSC A000100	100	
HTSC A000150	150	
HTSC A00035	35	
HTSC A00060	60	

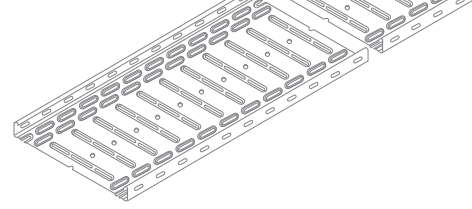
### RISER Con'n



UNIT : mm

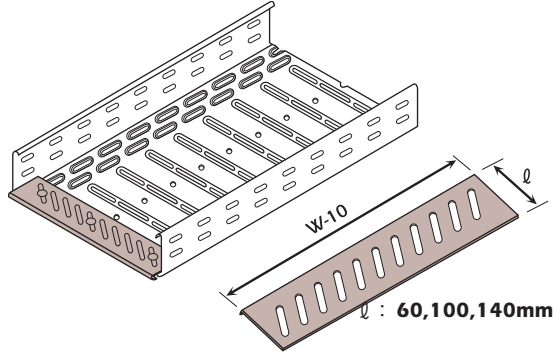
CATALOG NO.	W(Width)	T(Thickness)
HTRC A000075	75	1.6
HTRC A000100	100	
HTRC A000150	150	
HTRC A00060	60	
HTRC A00035	30	

# CABLE TRAY SYSTEM



## HI TEC TRAY FITTING

### END PLATE

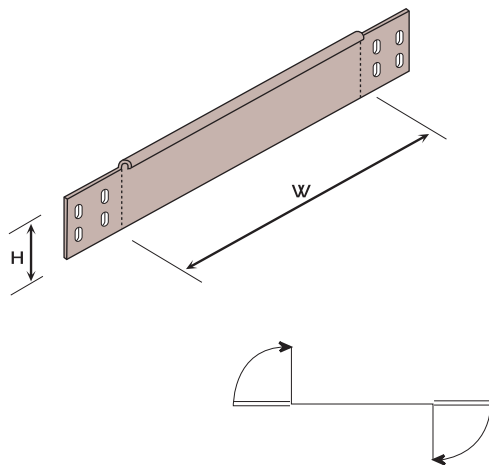


UNIT : mm

CATALOG NO.	W(Width)	H(Height)	T(Thickness)
HTEP 0100100	100	35 60 70 100 150	1.2
HTEP 0150100	150		
HTEP 0200100	200		
HTEP 0300100	300		
HTEP 0400100	400		
HTEP 0450100	450		
HTEP 0500100	500		
HTEP 0600100	600		
HTEP 0750100	750		
HTEP 0900100	900		
HTEP 01000100	1000		

HI TEC TRAY

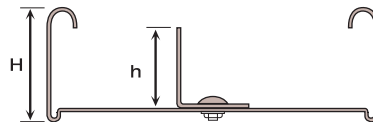
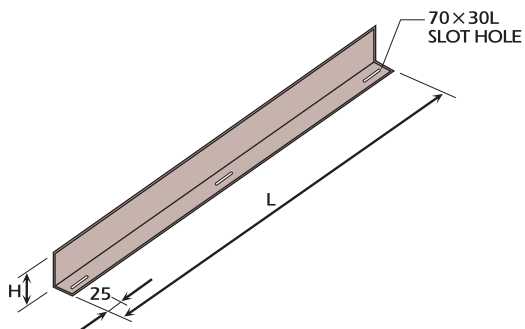
### END CAP



UNIT : mm

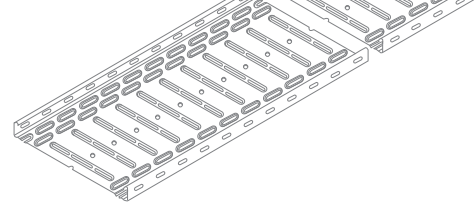
CATALOG NO.	W(Width)	H(Height)	T(Thickness)
HTEC 0100100	100	35 60 70 100 150	1.2
HTEC 0150100	150		
HTEC 0200100	200		
HTEC 0300100	300		
HTEC 0400100	400		
HTEC 0450100	450		
HTEC 0500100	500		
HTEC 0600100	600		
HTEC 0750100	750		
HTEC 0900100	900		
HTEC 01000100	1000		

### SEPARATOR



UNIT : mm

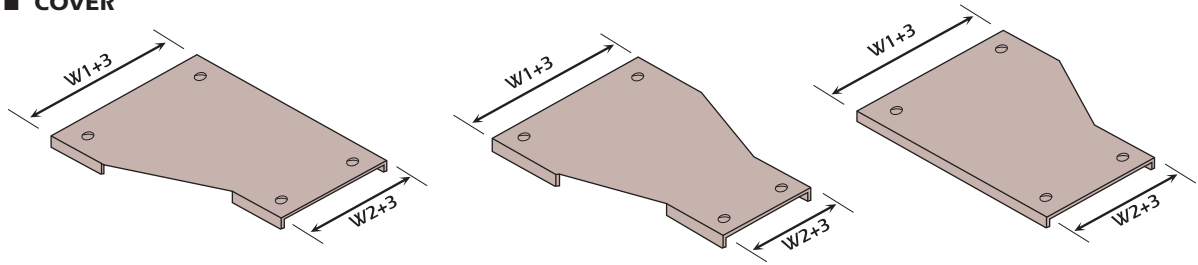
CATALOG NO.	W(Width)	H(Height)	T(Thickness)
HTSP A000075	75	65	1.0
HTSP A000100	100	90	
HTSP A000150	150	140	1.6



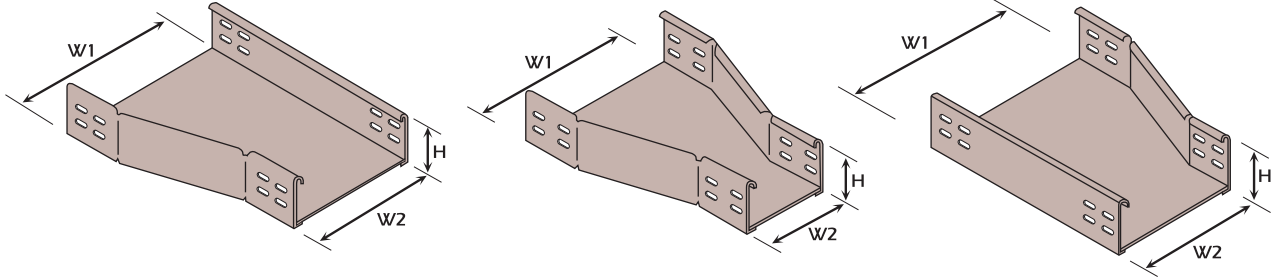
## HI TEC TRAY FITTING

### REDUCER

#### ■ COVER



#### ■ BODY



LEFT TYPE

STRAIGHT TYPE

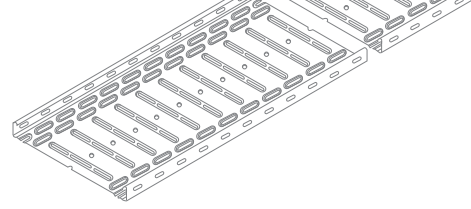
RIGHT TYPE

HI TEC TRAY

UNIT : mm

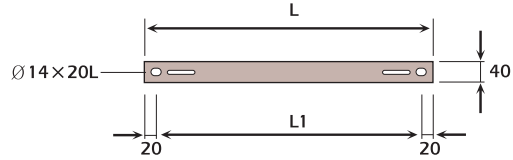
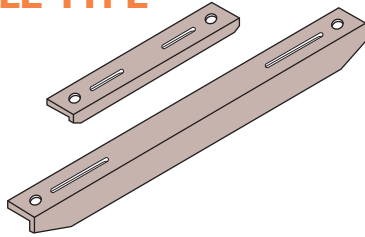
CATALOG NO.			W1	W2
LEFT	STRAIGHT	RAIGHT		
HTRL 0230200100	HTRS 0230200100	HTRR 0230200100	200	100
HTRL 0230300100	HTRS 0230300100	HTRR 0230300100	300	100
HTRL 0230300100	HTRS 0230300100	HTRR 0230300100		200
HTRL 0230400100	HTRS 0230400100	HTRR 0230400100	400	200
HTRL 0230400100	HTRS 0230400100	HTRR 0230400100		300
HTRL 0230500100	HTRS 0230500100	HTRR 0230500100	500	200
HTRL 0230500100	HTRS 0230500100	HTRR 0230500100		300
HTRL 0230600100	HTRS 0230600100	HTRR 0230600100	600	300
HTRL 0230600100	HTRS 0230600100	HTRR 0230600100		400
HTRL 0230700100	HTRS 0230700100	HTRR 0230700100	700	300
HTRL 0230700100	HTRS 0230700100	HTRR 0230700100		400
HTRL 0230800100	HTRS 0230800100	HTRR 0230800100	800	400
HTRL 0230800100	HTRS 0230800100	HTRR 0230800100		600
HTRL 0230900100	HTRS 0230900100	HTRR 0230900100	900	400
HTRL 0230900100	HTRS 0230900100	HTRR 0230900100		600

# CABLE TRAY SYSTEM



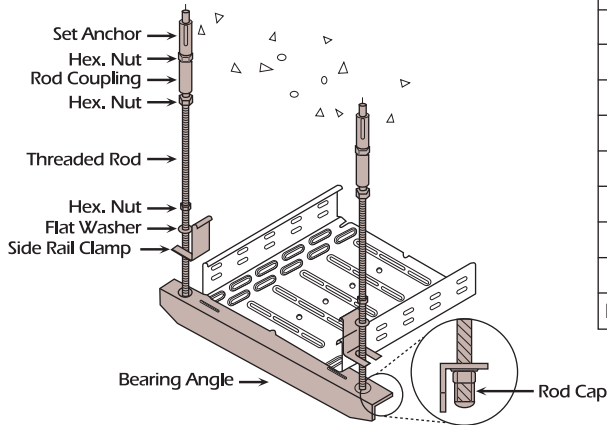
## HI TEC TRAY SUPPORT

### ANGLE TYPE



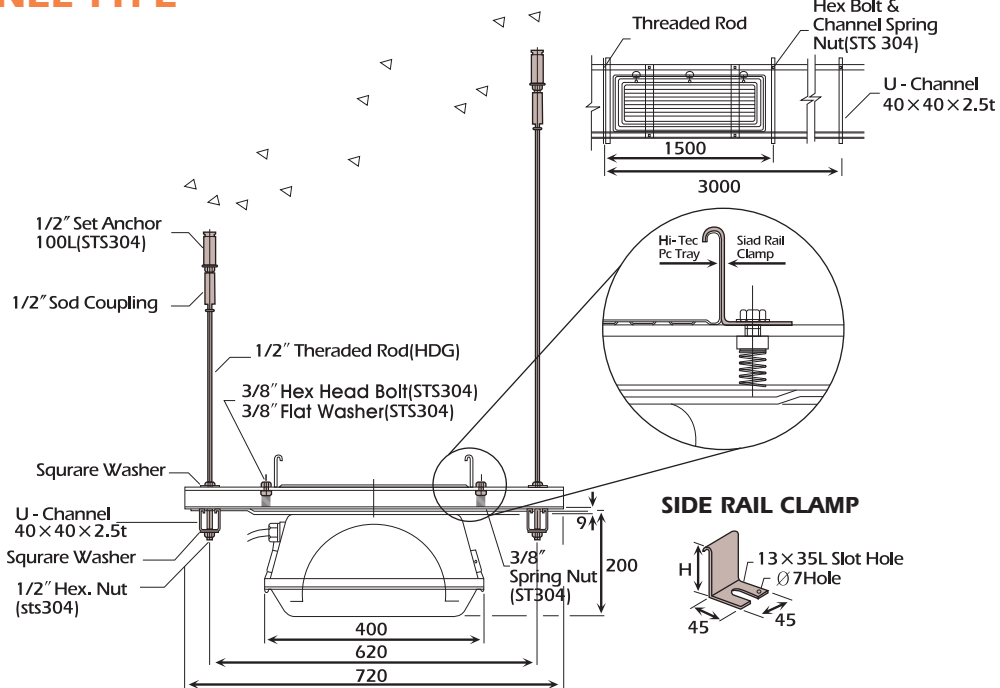
UNIT : mm

CATALOG NO.	W(Width)	L(Length)	T(Thickness)
HTBE 0100100	100	170	3.2
HTBE 0150100	150	220	
HTBE 0200100	200	270	
HTBE 0300100	300	370	
HTBE 0400100	400	470	
HTBE 0450100	450	520	
HTBE 0500100	500	570	
HTBE 0600100	600	670	
HTBE 0750100	750	820	
HTBE 0900100	900	970	
HTBE 01000100	1000	1070	

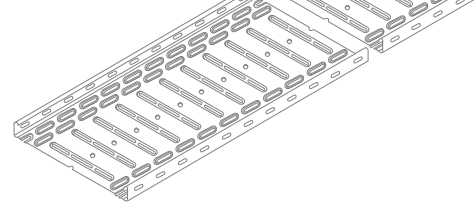


HI TEC TRAY

### CHANNEL TYPE

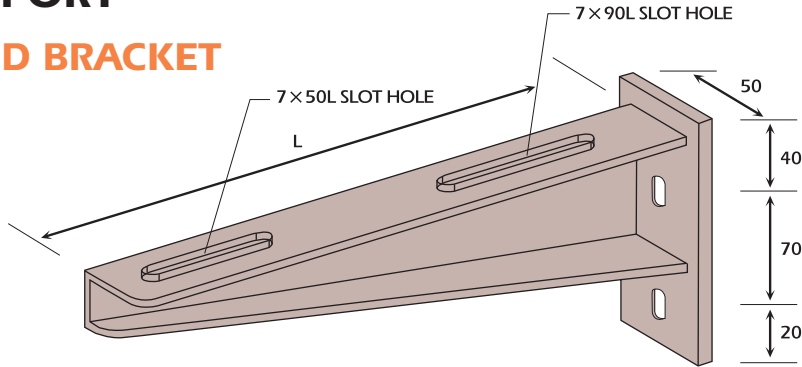






## HI TEC TRAY SUPPORT

### FIXED BRACKET

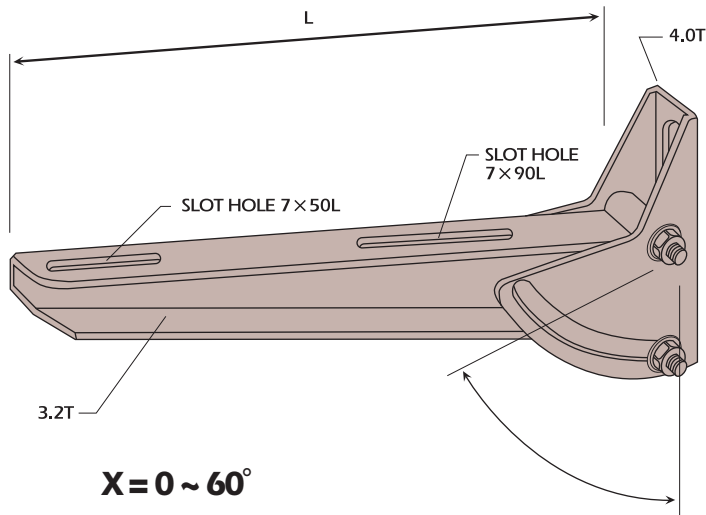


UNIT : mm

CATALOG NO.	W(Width)	L(Length)
FXBK A000100	150	160
FXBK A000200	200	210
FXBK A000300	300	310
FXBK A000400	400	410
FXBK A000450	450	460
FXBK A000500	500	510

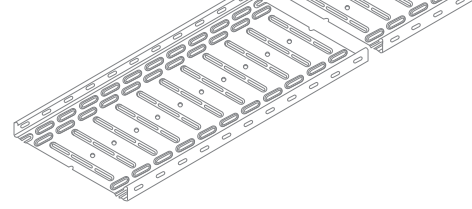
HI TEC TRAY

### VARIABLE BRACKET



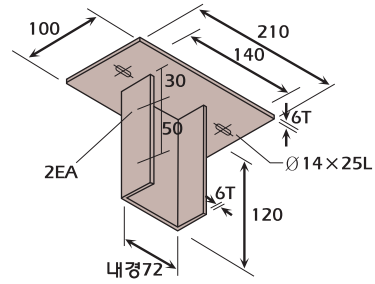
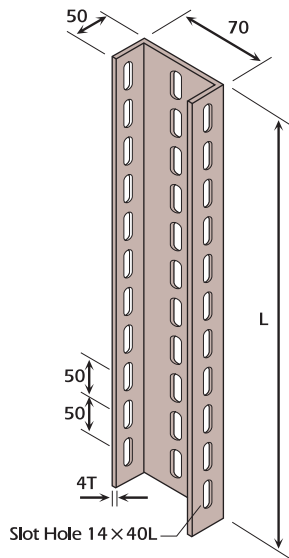
UNIT : mm

CATALOG NO.	W(Width)	L(Length)
VRBK A000200	200	250
VRBK A000300	300	350
VRBK A000400	400	450



## HI TEC TRAY SUPPORT

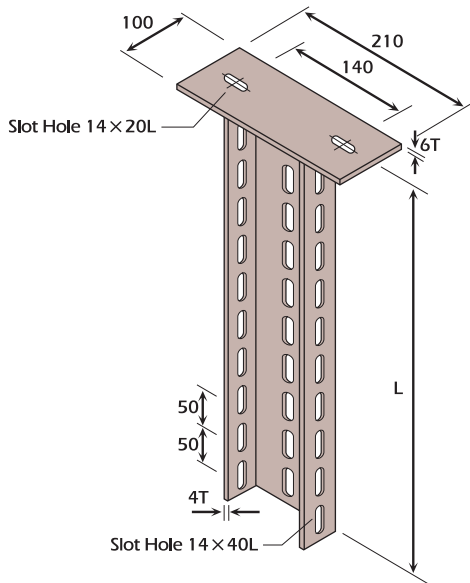
### U - SUPPORT



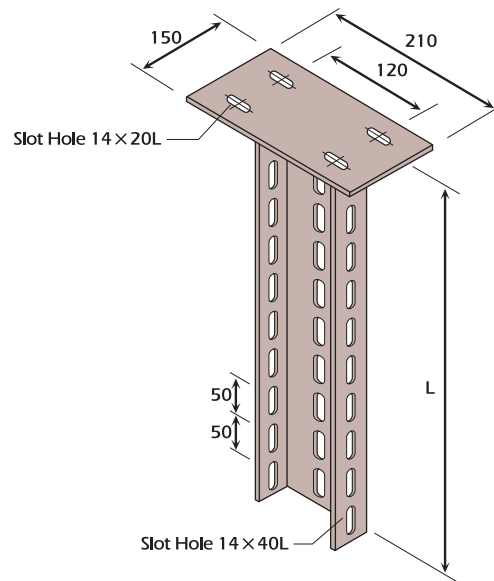
■ Head plate

HI TEC TRAY

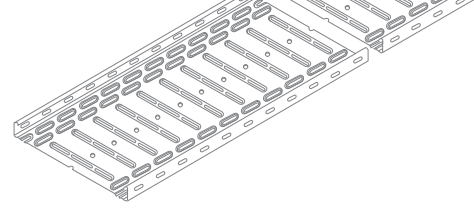
### U - SUPPORT



■ A-TYPE

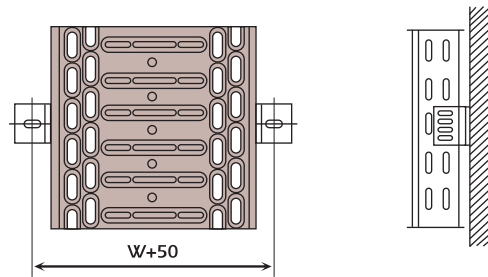
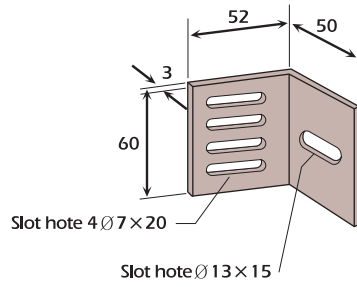


■ B-TYPE

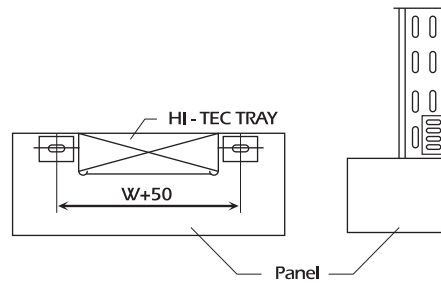
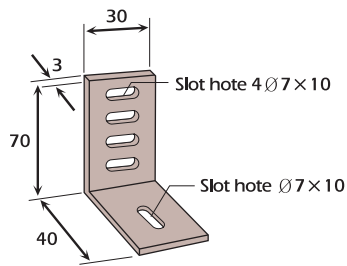


## HI TEC TRAY SUPPORT

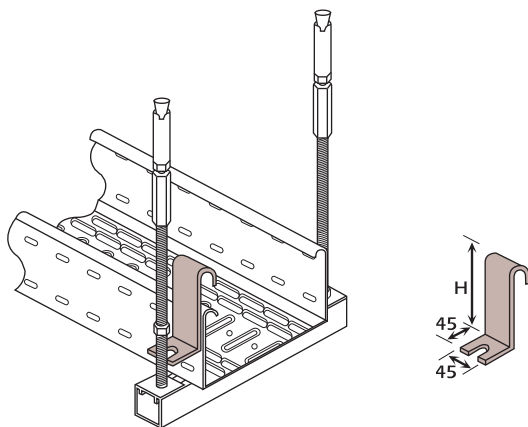
### VERTICAL FIXING ANGLE



### PANNEL ANGLE



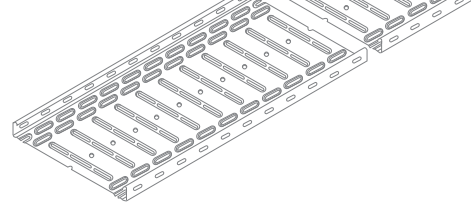
### SIDE RAIL CLAMP



UNIT : mm

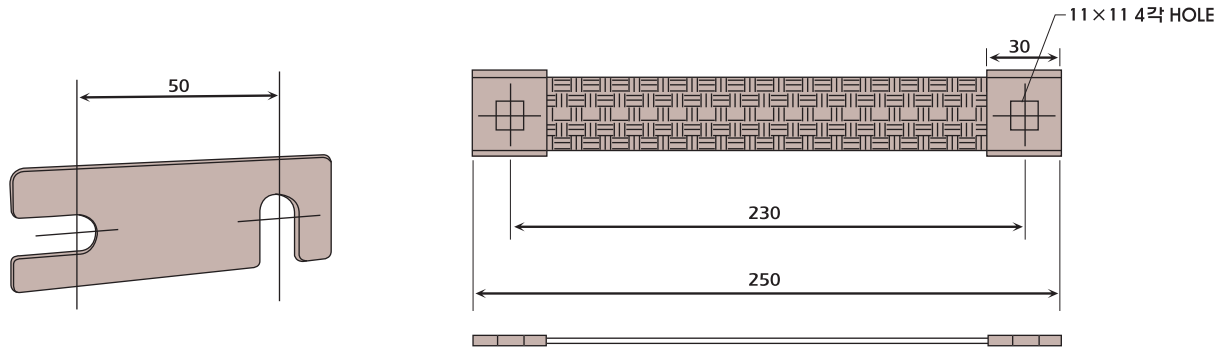
CATALOG NO.	H(Height)	T(Thickness)
HTSR A000075	75	1.2
HTSR A000100	100	1.6
HTSR A000150	150	1.6

# CABLE TRAY SYSTEM



## HI TEC TRAY SUPPORT

### G.B JUMPER

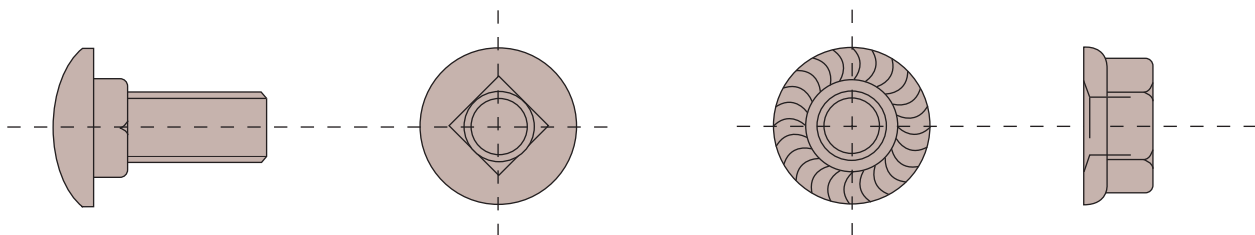


UNIT : mm

THREAD	FINISH
14mm <sup>2</sup> × 250L	COPPER
22mm <sup>2</sup> × 250L	
38mm <sup>2</sup> × 250L	

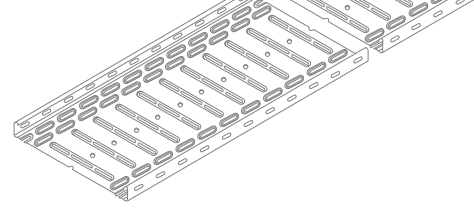
HI TEC TRAY

## SHANK BOLT & NUT

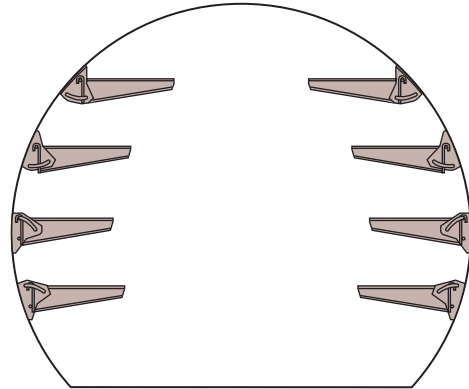
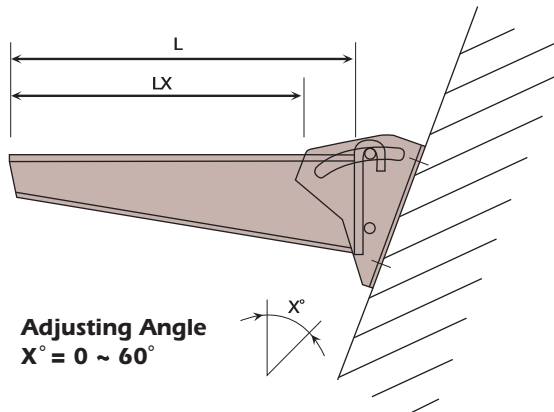


■ SHANK BOLT (M6 × 12L)

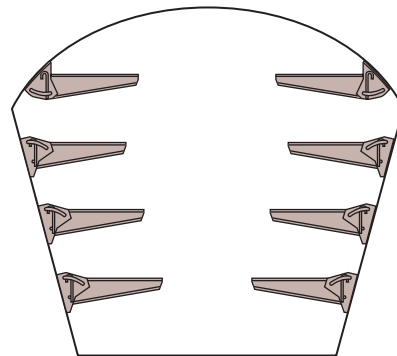
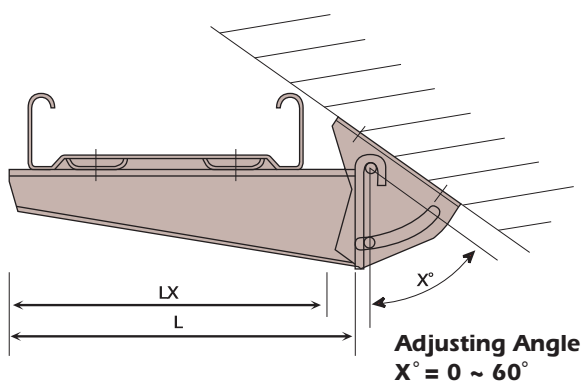
■ FLANGE NUT (M6)



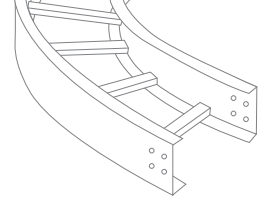
## HI TEC TRAY MOUNTING TO INCLINED CEILING(I/T) INCLINED WALL



## INCLINED CEILING



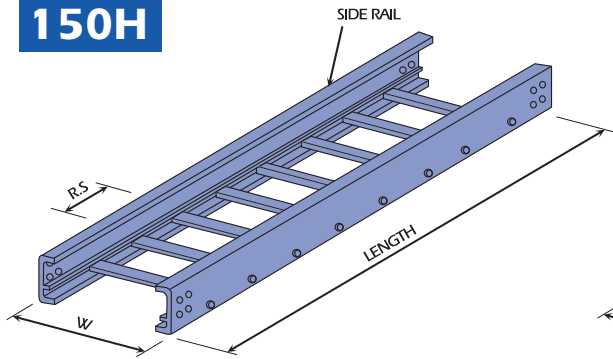
# CABLE TRAY SYSTEM



## G.R.P LADDER

STRAIGHT

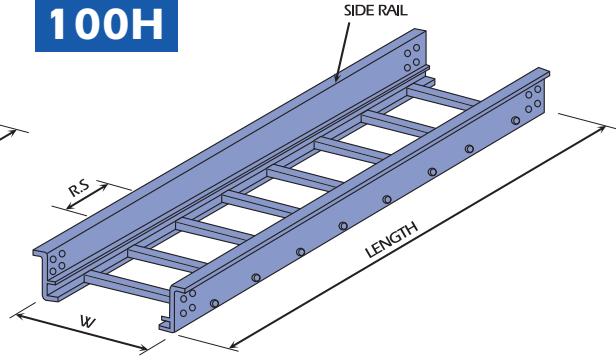
150H



■ EHL TYPE

STRAIGHT

100H

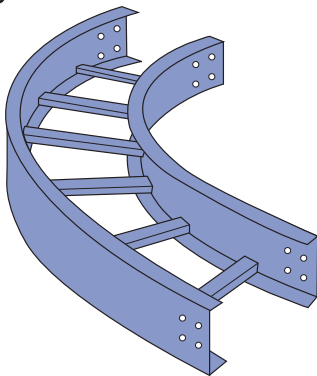


■ ELZ TYPE

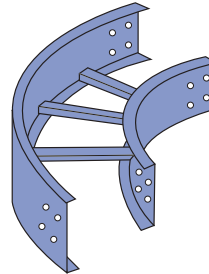
## G.R.P FITTINGS

HORIZONTAL ELBOW

90°



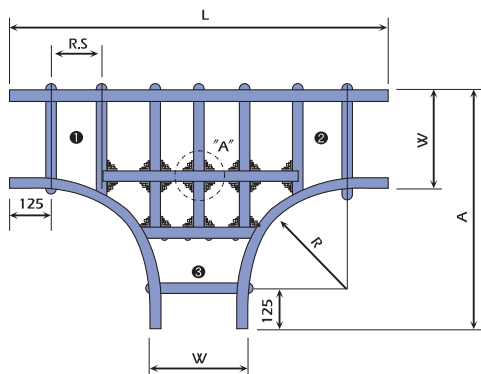
45°



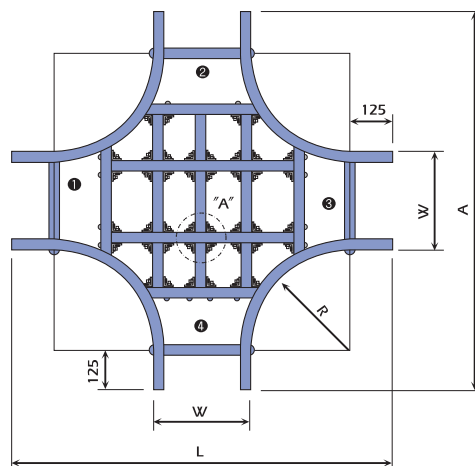
G.R.P TRAY  
SYSTEM

## G.R.P FITTINGS

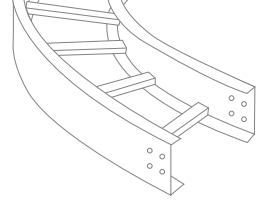
HORIZONTAL TEE



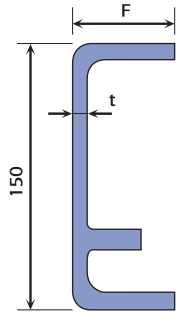
HORIZONTAL CROSS



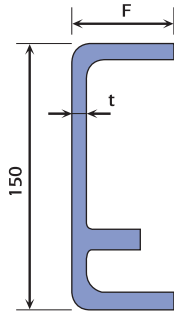
# CABLE TRAY SYSTEM



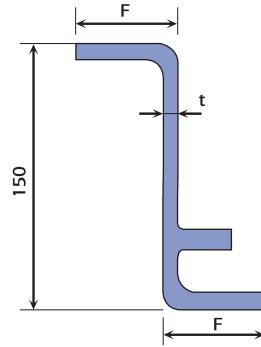
## SIDE RAIL TYPE



■ EHL TYPE



■ EHL TYPE

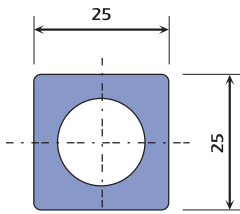


■ ELZ TYPE

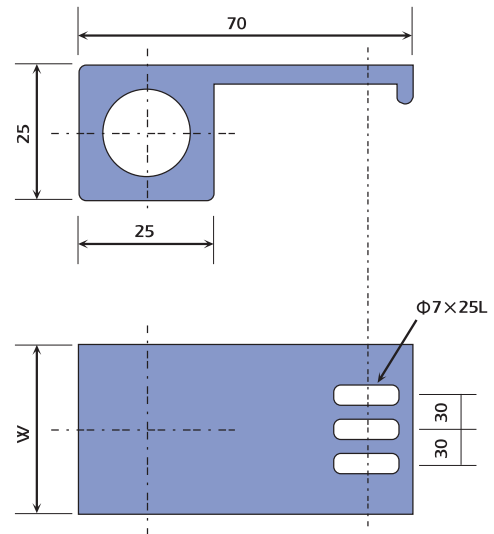
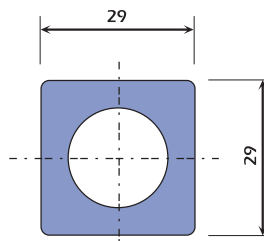
CATALOG NO.		H	F	t
EHL 100	EHZ 100	100	30	40
EHL 150	EHZ 150	150	40	45

## RUNG

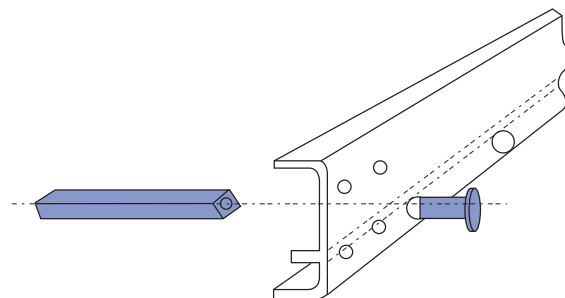
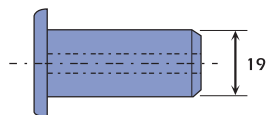
■ DSFR TYPE



■ DSFRQ TYPE

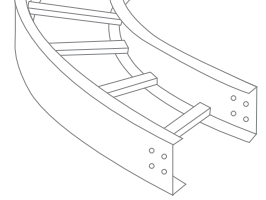


## CONNECTION PIN



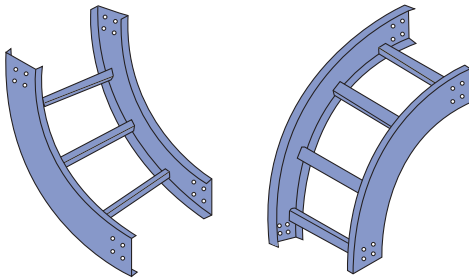
G.R.P TRAY SYSTEM

# CABLE TRAY SYSTEM



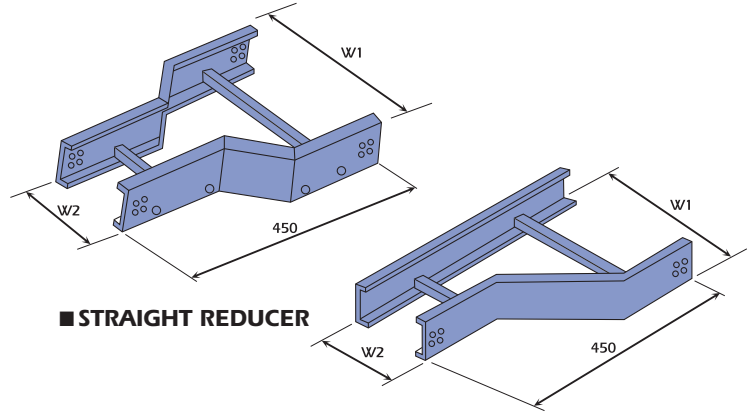
## G.R.P FITTINGS

### VERTICAL ELBOW



■ INSIDE ELBOW ■ OUTSIDE ELBOW

### REDUCER

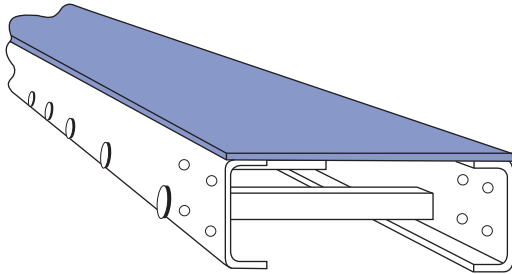


■ STRAIGHT REDUCER

■ RIGHT HAND REDUCER

## ACCESSORIES

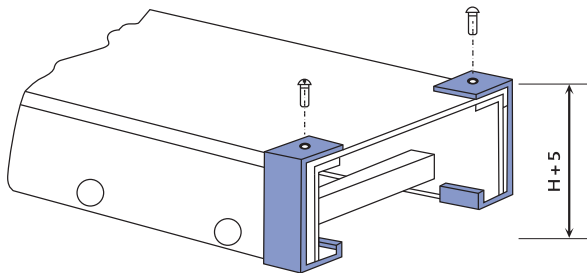
### STRAIGHT SOLID COVER



Materials : Fiberglass or stainless steel(STS316)  
Length : 1500mm or 3000mm

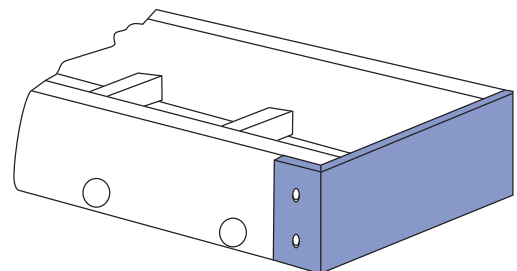
### COVER CLAMP

Material : G.R.P



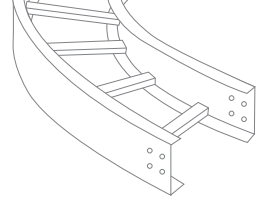
### BLIND END PLATE

Material : G.R.P





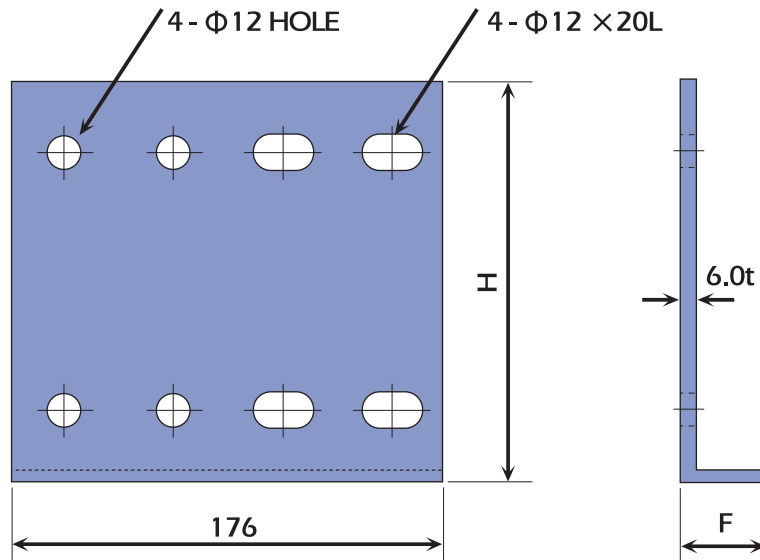
# CABLE TRAY SYSTEM



## ACCESSORIES

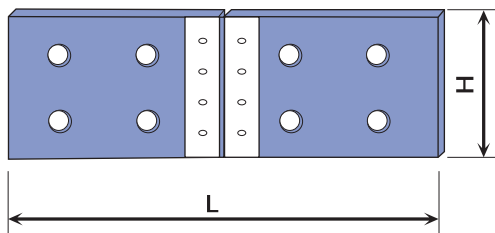
### JOINT CONNECTOR

Material : G.R.P



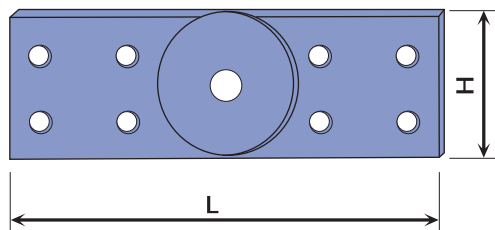
### ADJUSTABLE HORIZONTAL

Material : Stainless steel(STS316)

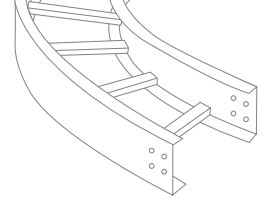


### ADJUSTABLE RISER CONNECTOR

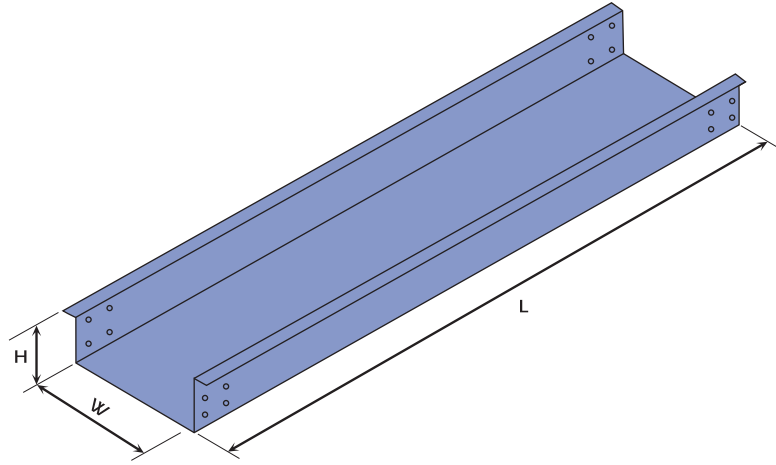
Material : Stainless steel(STS316)



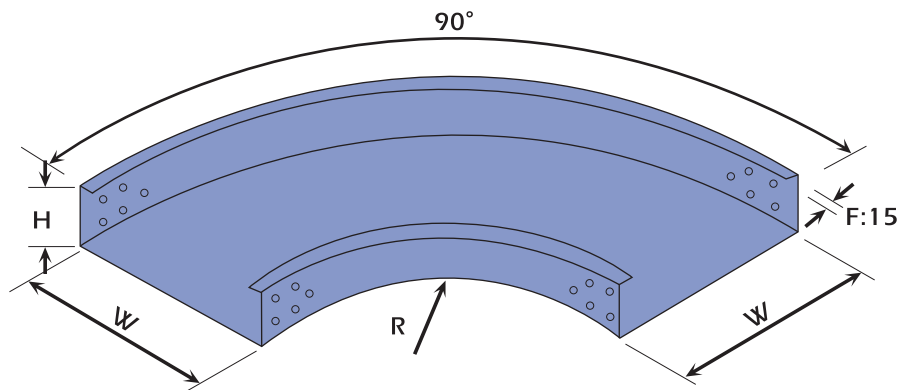
# CABLE TRAY SYSTEM



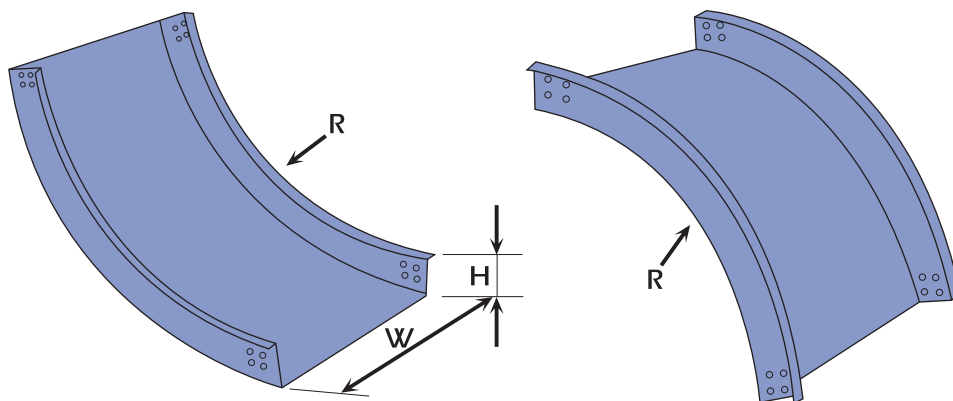
## G.R.P DUCT



## HORIZONTAL ELBOW



## VERTICAL ELBOW

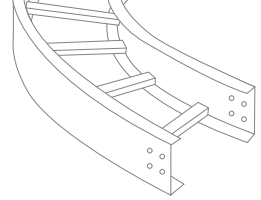


■ INSIDE TYPE

■ OUTSIDE TYPE

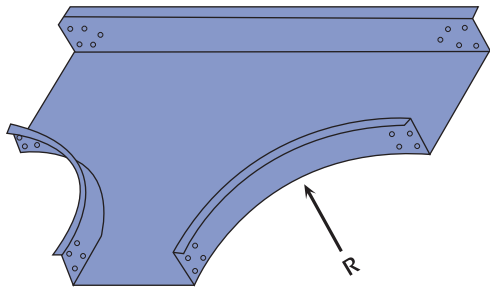
G.R.P TRAY  
SYSTEM

# CABLE TRAY SYSTEM

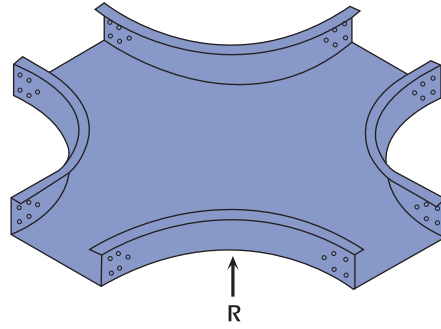


## G.R.P DUCT (FITTING)

### HORIZONTAL TEE

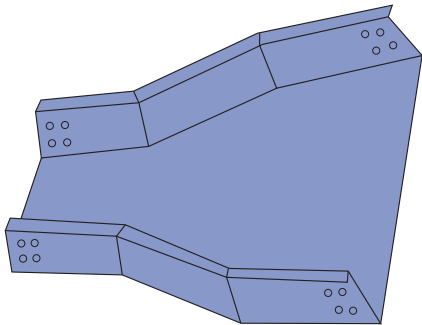


### HORIZONTAL CROSS

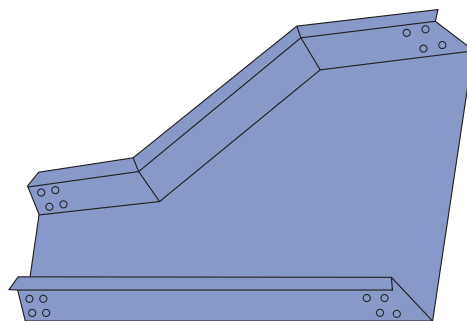
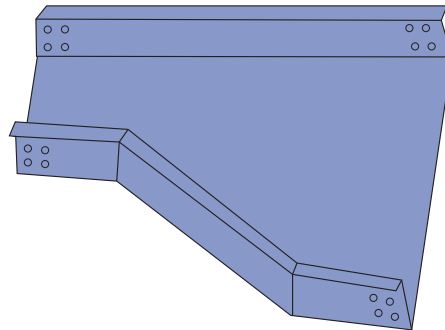


### REDUCER

#### ■ STRAIGHT TYPE

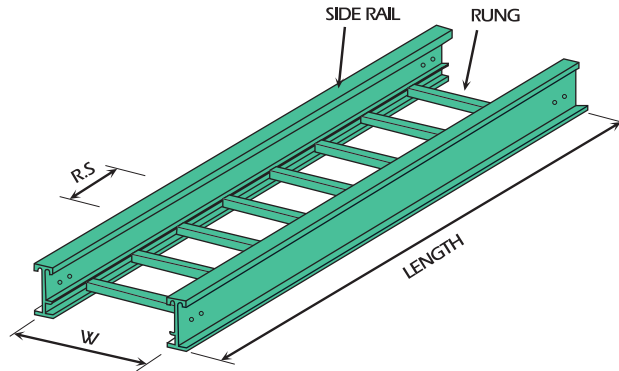


#### ■ LEFT HAND TYPE



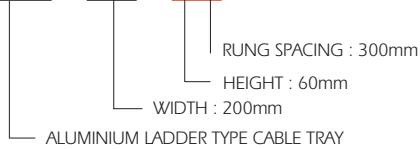
#### ■ RIGHT HAND TYPE

## ALUMINIUM TRAY Ladder Type



### NUMBERING SYSTEM

**ALLT - 20 - 63**



UNIT : mm

CATALOG NO.	W	R.S
ALLT - 1562	150	200
ALLT - 1563		300
ALLT - 2062	200	200
ALLT - 2063		300
ALLT - 3062	300	200
ALLT - 3063		300
ALLT - 4062	400	200
ALLT - 4063		300
ALLT - 5062	500	200
ALLT - 5063		300
ALLT - 6062	600	200
ALLT - 6063		300
ALLT - 7062	700	200
ALLT - 7063		300
ALLT - 8062	800	200
ALLT - 8063		300
ALLT - 9062	900	200
ALLT - 9063		300
ALLT - 0062	1000	200
ALLT - 0063		300

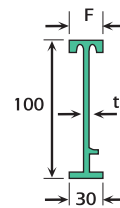
### TECHNICAL DATA

Materials : Aluminum Alloy Extruded Shape  
(KS D 3501, SPHC)

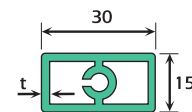
Finishes : Natural or Anodizing

Length : 3000mm or 4500mm

Constructions : Bolting or Welding Type



**SIDE RAIL**  
T : 2.0, 2.5



**RUNG**  
T : 1.5, 2.0

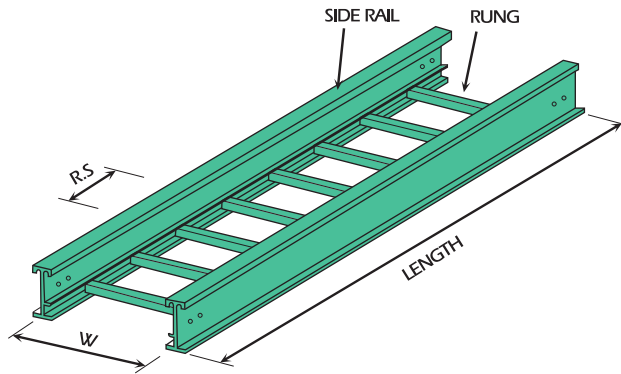
### ELEMENTS OF SECTION



Area of section : 6.75cm<sup>2</sup>  
Moment of inertia : 83.26cm<sup>4</sup>  
Section modulus : 16.65cm<sup>3</sup>

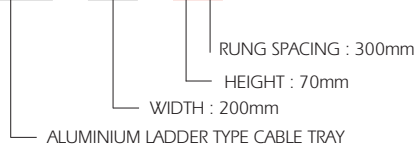
※ Q' Ty of side rail : 2EA

## ALUMINIUM TRAY Ladder Type



### NUMBERING SYSTEM

**ALLT - 20 - 73**



UNIT : mm

CATALOG NO.	W	R.S
ALLT - 1572	150	200
ALLT - 1573		300
ALLT - 2072	200	200
ALLT - 2073		300
ALLT - 3072	300	200
ALLT - 3073		300
ALLT - 4072	400	200
ALLT - 4073		300
ALLT - 5072	500	200
ALLT - 5073		300
ALLT - 6072	600	200
ALLT - 6073		300
ALLT - 7072	700	200
ALLT - 7073		300
ALLT - 8072	800	200
ALLT - 8073		300
ALLT - 9072	900	200
ALLT - 9073		300
ALLT - 0072	1000	200
ALLT - 0073		300

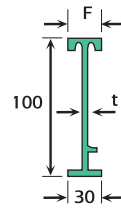
### TECHNICAL DATA

Materials : Aluminum Alloy Extruded Shape  
(KS D 3501, SPHC)

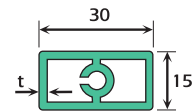
Finishes : Natural or Anodizing

Length : 3000mm or 4500mm

Constructions : Bolting or Welding Type



**SIDE RAIL**  
T : 2.0, 2.5



**RUNG**  
T : 1.5, 2.0

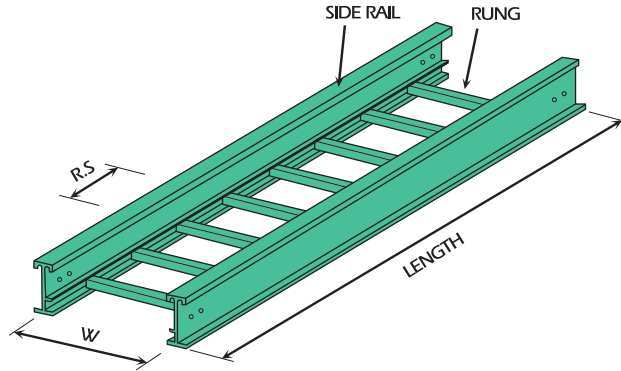
### ELEMENTS OF SECTION



Area of section : 6.75cm<sup>2</sup>  
Moment of inertia : 83.26cm<sup>4</sup>  
Section modulus : 16.65cm<sup>3</sup>

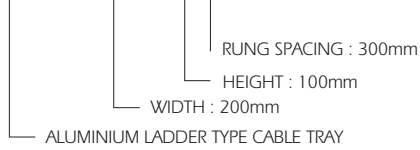
※ Q' Ty of side rail : 2EA

## ALUMINIUM TRAY Ladder Type



### NUMBERING SYSTEM

**ALLT - 20 - 13**



UNIT : mm

CATALOG NO.	W	R.S
ALLT - 1512	150	200
ALLT - 1513		300
ALLT - 2012	200	200
ALLT - 2013		300
ALLT - 3012	300	200
ALLT - 3013		300
ALLT - 4012	400	200
ALLT - 4013		300
ALLT - 5012	500	200
ALLT - 5013		300
ALLT - 6012	600	200
ALLT - 6013		300
ALLT - 7012	700	200
ALLT - 7013		300
ALLT - 8012	800	200
ALLT - 8013		300
ALLT - 9012	900	200
ALLT - 9013		300
ALLT - 0012	1000	200
ALLT - 0013		300

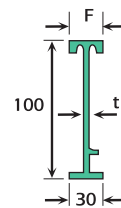
### TECHNICAL DATA

Materials : Aluminum Alloy Extruded Shape  
(KS D 3501, SPHC)

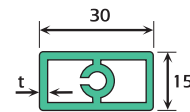
Finishes : Natural or Anodizing

Length : 3000mm or 4500mm

Constructions : Bolting or Welding Type



**SIDE RAIL**  
T : 2.0, 2.5



**RUNG**  
T : 1.5, 2.0

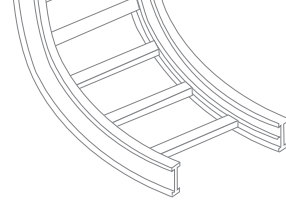
### ELEMENTS OF SECTION



Area of section : 6.75cm<sup>2</sup>  
Moment of inertia : 83.26cm<sup>4</sup>  
Section modulus : 16.65cm<sup>3</sup>

※ Q' Ty of side rail : 2EA

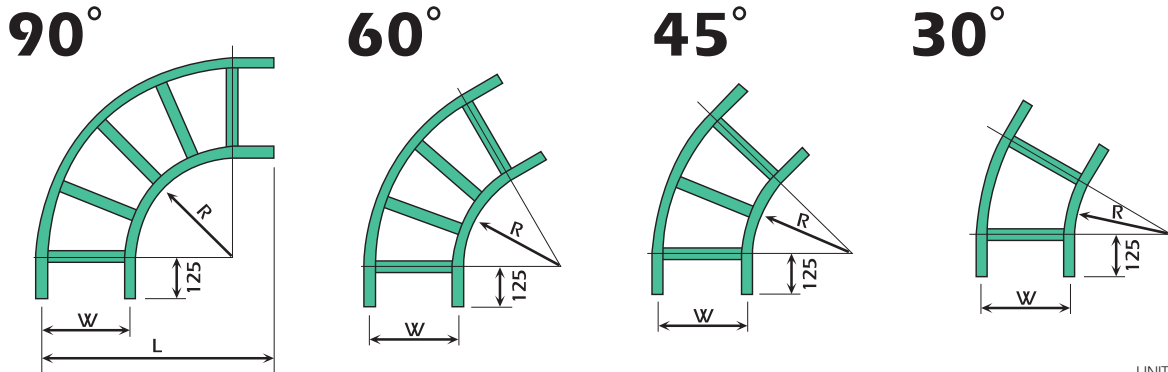
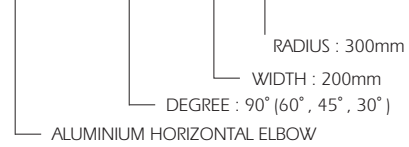
# CABLE TRAY SYSTEM



## ALUMINIUM TRAY HORIZONTAL ELBOW

### ► NUMBERING SYSTEM

**ALHE - 90 - 2030**

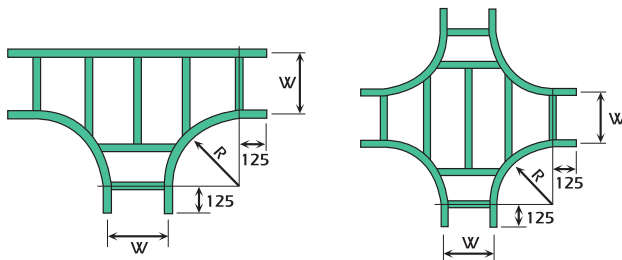


UNIT : mm

W	R	CATALOG NO.	CATALOG NO.	CATALOG NO.	CATALOG NO.
		90° HOR ELBOW	60° HOR ELBOW	45° HOR ELBOW	30° HOR ELBOW
150	300	ALHE- 30 - 1530	ALHE- 45 - 1530	ALHE- 60 - 1530	ALHE- 90 - 1530
200	300	ALHE- 30 - 2030	ALHE- 45 - 2030	ALHE- 60 - 2030	ALHE- 90 - 2030
300	300	ALHE- 30 - 3030	ALHE- 45 - 3030	ALHE- 60 - 3030	ALHE- 90 - 3030
400	300	ALHE- 30 - 4030	ALHE- 45 - 4030	ALHE- 60 - 4030	ALHE- 90 - 4030
500	300	ALHE- 30 - 5530	ALHE- 45 - 5530	ALHE- 60 - 5530	ALHE- 90 - 5530
600	300	ALHE- 30 - 6030	ALHE- 45 - 6030	ALHE- 60 - 6030	ALHE- 90 - 6030
700	300	ALHE- 30 - 7030	ALHE- 45 - 7030	ALHE- 60 - 7030	ALHE- 90 - 7030
800	300	ALHE- 30 - 8030	ALHE- 45 - 8030	ALHE- 60 - 8030	ALHE- 90 - 8030
900	300	ALHE- 30 - 9030	ALHE- 45 - 9030	ALHE- 60 - 9030	ALHE- 90 - 9030
1000	300	ALHE- 30 - 0030	ALHE- 45 - 0030	ALHE- 60 - 0030	ALHE- 90 - 0030

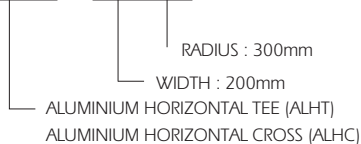
## HORIZONTAL TEE    HORIZONTAL CROSS

UNIT : mm



### ► NUMBERING SYSTEM

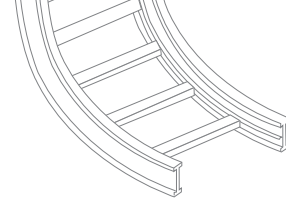
**ALHT - 2030**



W	R	CATALOG NO.	CATALOG NO.
		HOR TEE	HOR CROSS
150	300	ALHT- 1530	ALHC- 1530
200	300	ALHT- 2030	ALHC- 2030
300	300	ALHT- 3030	ALHC- 3030
400	300	ALHT- 4030	ALHC- 4030
500	300	ALHT- 5530	ALHC- 5530
600	300	ALHT- 6030	ALHC- 6030
700	300	ALHT- 7030	ALHC- 7030
800	300	ALHT- 8030	ALHC- 8030
900	300	ALHT- 9030	ALHC- 9030
1000	300	ALHT- 0030	ALHC- 0030

ALUMINIUM  
TRAY SYSTEM

# CABLE TRAY SYSTEM



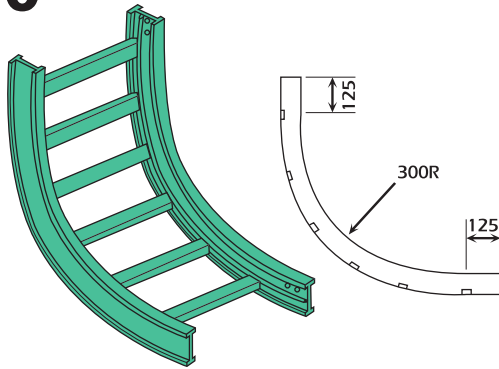
## ALUMINIUM TRAY VERTICAL ELBOW

## NUMBERING SYSTEM

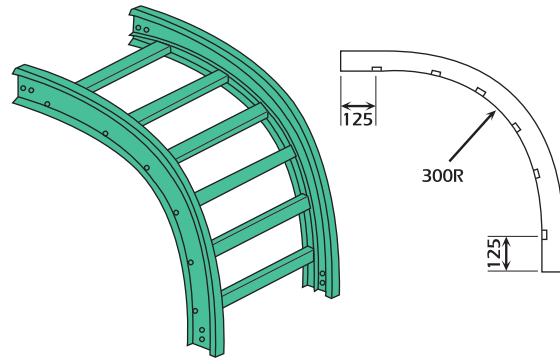
### ALVI - 2030

RADIUS : 300mm  
 WIDTH : 200mm  
 ALUMINIUM VERTICAL INSIDE (ALVI)  
 ALUMINIUM VERTICAL OUTSIDE (ALVO)

90°



90°

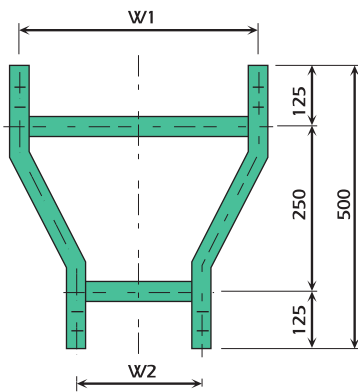


UNIT : mm

W	B	90° VER ELBOW		60° VER ELBOW		45° VER ELBOW		30° VER ELBOW	
		INSIDE	OUTSIDE	INSIDE	OUTSIDE	INSIDE	OUTSIDE	INSIDE	OUTSIDE
150	300	ALVI-9-1530	ALVO-9-1530	ALVI-6-1530	ALVO-6-1530	ALVI-45-1530	ALVO-45-1530	ALVI-3-1530	ALVO-3-1530
200	300	ALVI-9-2030	ALVO-9-2030	ALVI-6-2030	ALVO-6-2030	ALVI-45-2030	ALVO-45-2030	ALVI-3-2030	ALVO-3-2030
300	300	ALVI-9-3030	ALVO-9-3030	ALVI-6-3030	ALVO-6-3030	ALVI-45-3030	ALVO-45-3030	ALVI-3-3030	ALVO-3-3030
400	300	ALVI-9-4030	ALVO-9-4030	ALVI-6-4030	ALVO-6-4030	ALVI-45-4030	ALVO-45-4030	ALVI-3-4030	ALVO-3-4030
500	300	ALVI-9-5530	ALVO-9-5530	ALVI-6-5530	ALVO-6-5530	ALVI-45-5530	ALVO-45-5530	ALVI-3-5530	ALVO-3-5530
600	300	ALVI-9-6030	ALVO-9-6030	ALVI-6-6030	ALVO-6-6030	ALVI-45-6030	ALVO-45-6030	ALVI-3-6030	ALVO-3-6030
700	300	ALVI-9-7030	ALVO-9-7030	ALVI-6-7030	ALVO-6-7030	ALVI-45-7030	ALVO-45-7030	ALVI-3-7030	ALVO-3-7030
800	300	ALVI-9-8030	ALVO-9-8030	ALVI-6-8030	ALVO-6-8030	ALVI-45-8030	ALVO-45-8030	ALVI-3-8030	ALVO-3-8030
900	300	ALVI-9-9030	ALVO-9-9030	ALVI-6-9030	ALVO-6-9030	ALVI-45-9030	ALVO-45-9030	ALVI-3-9030	ALVO-3-9030
1000	300	ALVI-9-0030	ALVO-9-0030	ALVI-6-0030	ALVO-6-0030	ALVI-45-0030	ALVO-45-0030	ALVI-3-0030	ALVO-3-0030

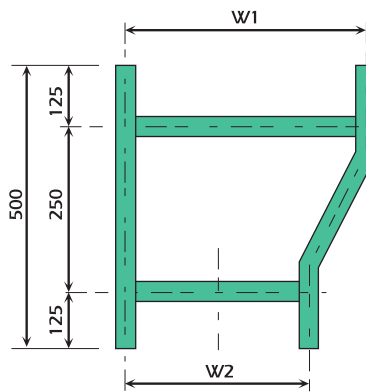
ALUMINIUM TRAY SYSTEM

## REDUCER



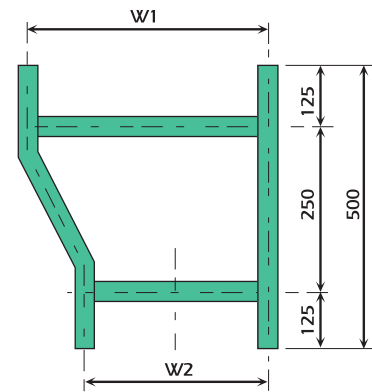
■ STRAIGHT TYPE

CATALOG NO. ALRS 3015



■ RIGHT TYPE

CATALOG NO. ALRR 3015

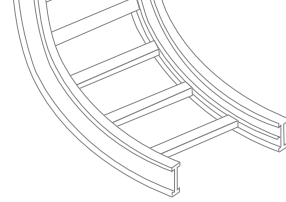


■ LEFT TYPE

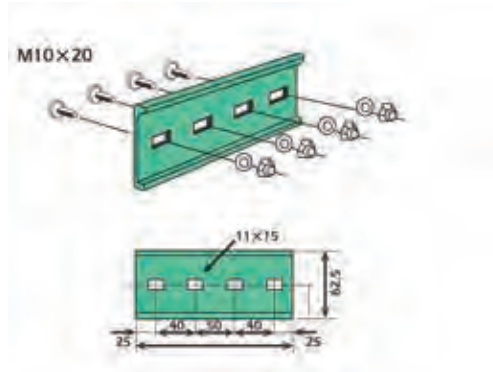
CATALOG NO. ALRL 3015



# CABLE TRAY SYSTEM



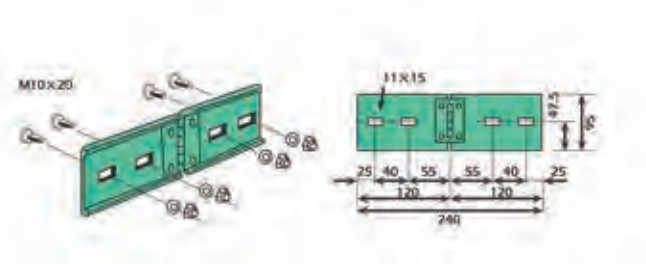
## ALUMINIUM TRAY CONNECTOR



UNIT : mm

CATALOG NO.	SIDE RAIL (H)	DEPTH (h)	t
ALJC - 010	100	105	2.5
ALJC - 070	70	75	2.5
ALJC - 006	60	65	2.0

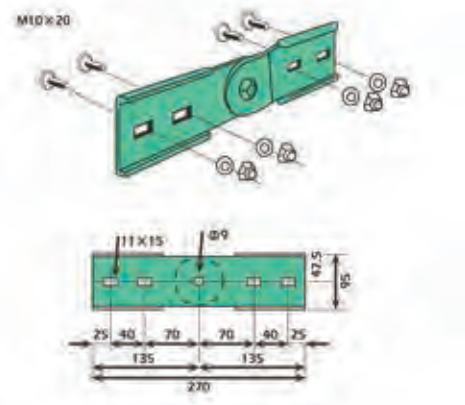
## ADJUSTABLE HORIZONTAL CONNECTOR



UNIT : mm

CATALOG NO.	SIDE RAIL (H)	DEPTH (h)	t
ALAH - 010	100	95	2.5
ALAH - 070	70	65	2.5
ALAH - 006	60	55	2.0

## ADJUSTABLE RISER CONNECTOR



UNIT : mm

CATALOG NO.	SIDE RAIL (H)	DEPTH (h)	t
ALAR - 010	100	95	2.5
ALAR - 070	70	65	2.5
ALAR - 006	60	55	2.0

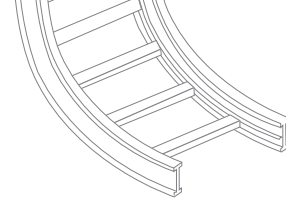
## BLIND END PLATE



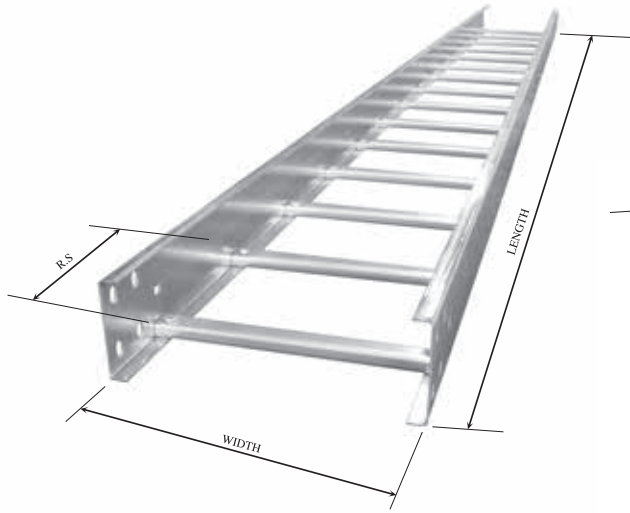
UNIT : mm

CATALOG NO.	W	t
ALBE - 010	150	1.6
ALBE - 070	200	1.6
ALBE - 006	300	1.6
ALBE - 010	400	1.6
ALBE - 070	500	1.6
ALBE - 006	600	1.6

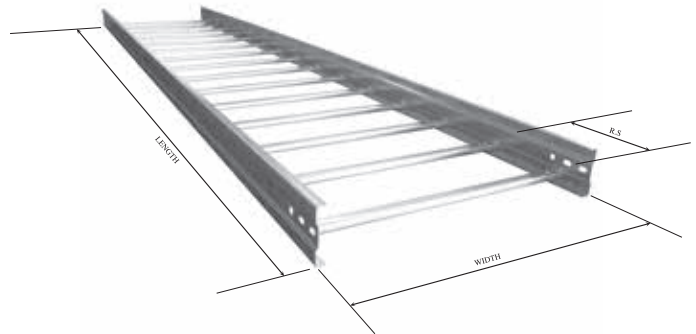
# CABLE TRAY SYSTEM



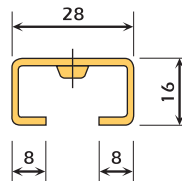
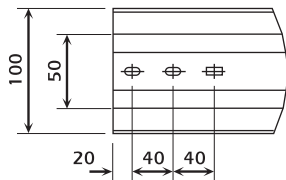
## CLEAN RIVET TRAY



**SA-SIDE RAIL TYPE**

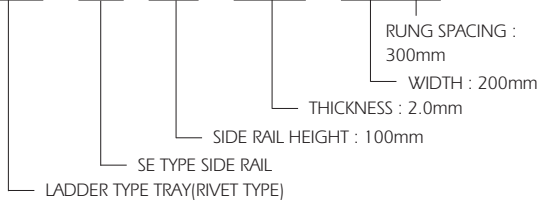


**SE-SIDE RAIL TYPE**



## NUMBERING SYSTEM

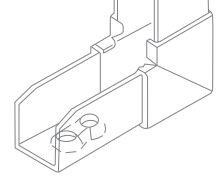
**LTR - SE 10 - T20 - 2030**



UNIT : mm

CATALOG NO.	W	R.S
LTR-SE10-T20 - 2020	200	200
LTR-SE10-T20 - 2030		300
LTR-SE10-T20 - 3020	300	200
LTR-SE10-T20 - 3030		300
LTR-SE10-T20 - 4020	400	200
LTR-SE10-T20 - 4030		300
LTR-SE10-T20 - 5020	500	200
LTR-SE10-T20 - 5030		300
LTR-SE10-T20 - 6020	600	200
LTR-SE10-T20 - 6030		300
LTR-SE10-T20 - 7020	700	200
LTR-SE10-T20 - 7030		300
LTR-SE10-T20 - 8020	800	200
LTR-SE10-T20 - 8030		300
LTR-SE10-T20 - 9020	900	200
LTR-SE10-T20 - 9030		300
LTR-SE10-T20 - 0020	1000	200
LTR-SE10-T20 - 0030		300

CABLE RIVET TRAY



## THE INTRODUCTION OF RACEWAY

### What is the Raceway

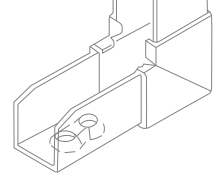
Raceway is an assembly metallic raceway sections and accessories that form a rigid structural system to support cables. And it can be joined with lightings easily

### Features of raceway system

- 1) Carrying out is very ease by reason of it is assembled system.
- 2) It is very ease and convenience to in-crease, moving, removing, reusing it's line
- 3) Since this device of the latest system in which a product is manufactured by the same process. the customers can be sat-ified with it's quality. delivery and price.
- 4) It is realize that recuce the labour cost.
- 5) It's appearence is very sleek and clean.

### USE

- 1) Basement parking lots for office buildings. hotel, apartment
- 2) To join the lightings for inner place of factory, school, whare house.
- 3) To join the lightings for inner place of hiper market, subway platform.
- 4) To join the lightings for inner place of research room machine of experiment.
- 5) To join the lightings for inner place of exhibition hall.

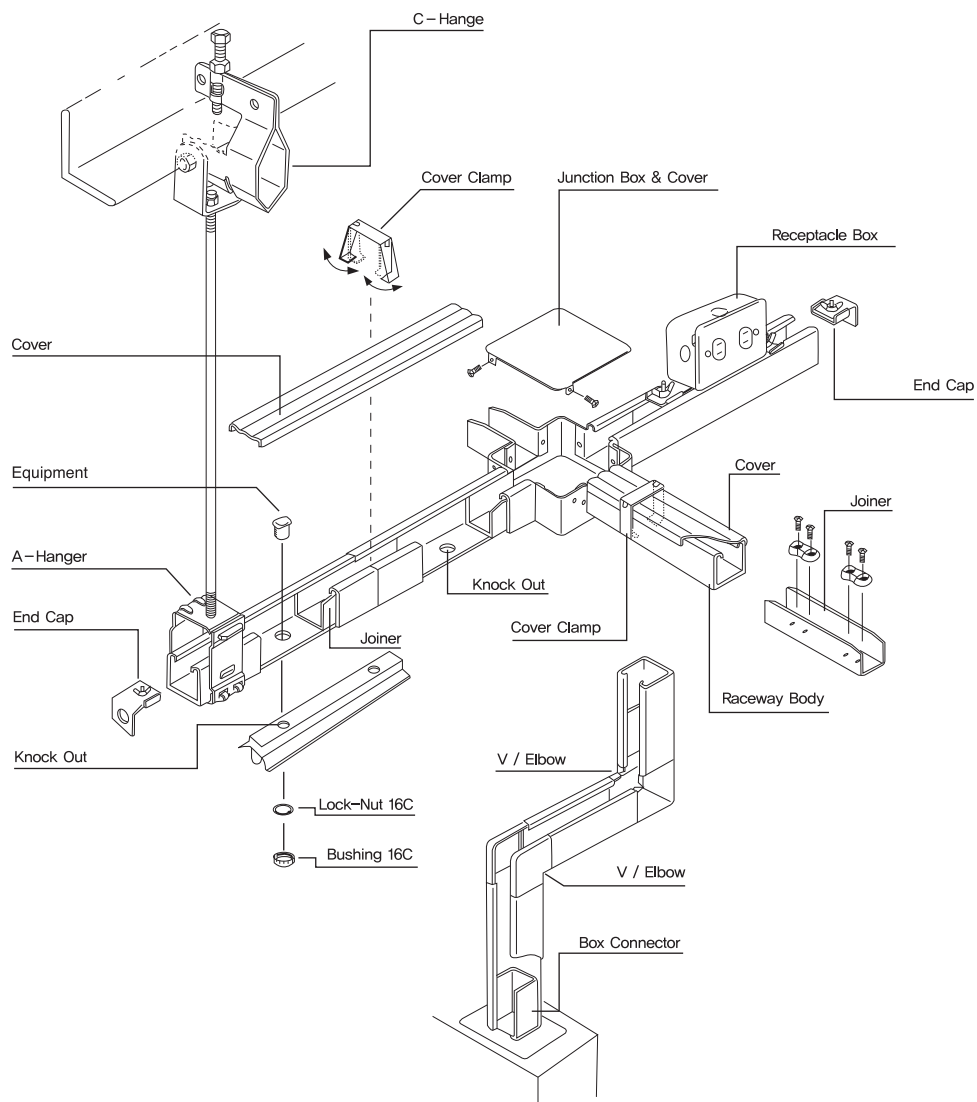


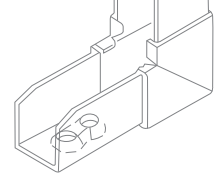
## RACE WAY SYSTEM CONSTRUCTION OF SYSTEM

1. PM-44 SERIES (W40m/m × H40m/m)
2. PM-74 SERIES (W70m/m × H40m/m)
3. PM-114 SERIES (W110m/m × H50m/m)

Raceway system is consisted of which be assembled with body, cover and various fittings classified by each series.

## CONSTRUCTION MAP OF SYSTEM

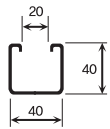




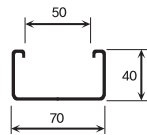
## RACE WAY SYSTEM

### THE INTRODUCTION OF RACEWAY

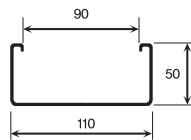
PM-44SERIES



PM-74SERIES



PM-115SERIES

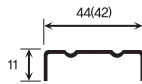


Length : 3,000m/m

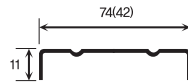
#### USE

There are holes to knock out on the bottom at intervals of 200mm. If you need special length, special width and special coating, please consult with our staffs.

PM-44SERIES



PM-74SERIES



PM-115SERIES

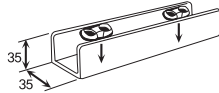


Length : 3,000m/m

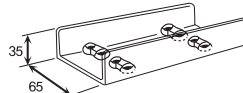
#### Cover

In order to protect the laid electric wire and to assemble the cover easily, our cover type is out type cover. And cover can be fastened by cover clamp.

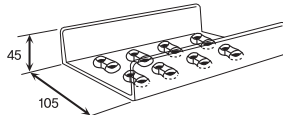
PM-44SERIES



PM-74SERIES

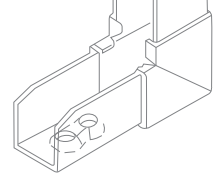


PM-115SERIES



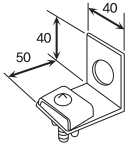
#### Joiner

The joiner is Raceway body's connector. It is designed to join through inside of the body for exterior of system. And it is joined with half of its length each side edge of body, to screw assembled bolt.



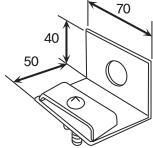
## RACE WAY SYSTEM

PM-44SERIES



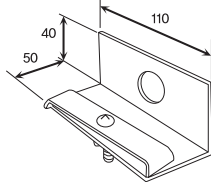
• Knock Out 22  $\varnothing$

PM-74SERIES



• Knock Out 28  $\varnothing$

PM-115SERIES

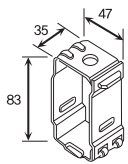


• Knock Out 28  $\varnothing$

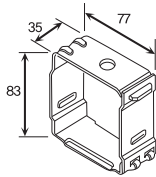
### End Cap

The end cap is used at the end of the raceway body. It is tightened on the formed edge of body by wing of it's as to screw nut. It's side have a hole to knock out which can be connected with wire pipe

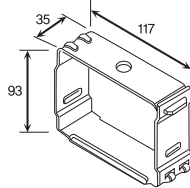
PM-44SERIES



PM-74SERIES



PM-115SERIES



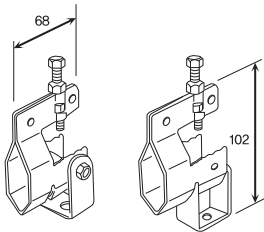
Hole Size of The Therad Rod : 13mm

### A Type Hanger

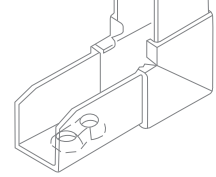
Hanger is hanging acc to hang the Raceway line on the ceiling. The connection thread rod and nut should be used 9mm and 12mm. It's lock-ing is side open type which make it easy to open and close as one touch

### C Type Hanger

When it is impossible to insert the rod on ceiling of truss and angle structure, C-Type Hanger is used. If hanging rod becomes long, Raceway line would swing in forward and backward or right and left. To avoid these case, Directional hanger must be installed by turns at 90° degree.

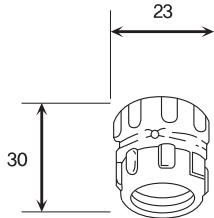


Hole Size of The Thread Rod :  $\varnothing$ 13

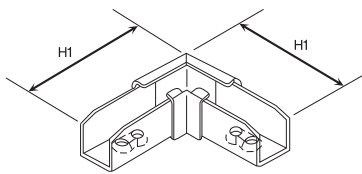


## RACE WAY SYSTEM

### EQUIPMENT STEEL FITTING



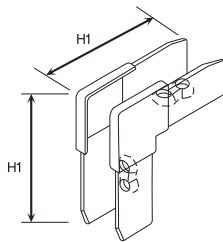
This is a accessory to join and assemble the lighting on the Raceway bottom. It have two functions. One is assembled with lighting and the other is that protect the laid cable connect-ing with the lighting through hole.



H1 : 110 (40×40)  
185 (70×40)  
227 (110×50)

#### Horizontal Elbow

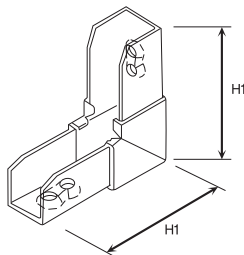
Horizontal Elbow is a fitting which change the horizontal direction at 90° degree in the Race-way line. Assembled method is same as joiner's



H1 : 110 (40×40)  
150 (70×40)  
175 (110×50)

#### Vertical Elbow

Vertical Elbow (Downward) is a fitting which change the vertical direction at 90° degree down-ward in the Raceway line. Assembled method is same as joiner's

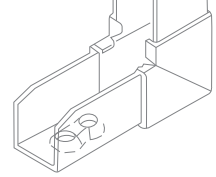


H1 : 110 (40×40)  
150 (70×40)  
175 (110×50)

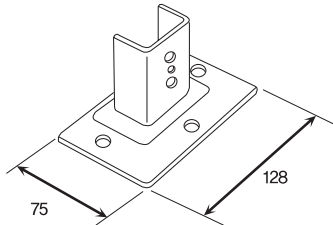
#### Vertical Elbow

Vertical Elbow (Upward) is a fitting which change the vertical direction at 90° degree Up-ward in the Raceway line. Assembled method is same as joiner's

# CABLE TRAY SYSTEM

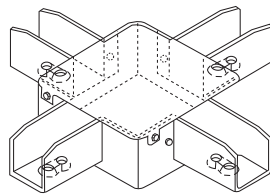
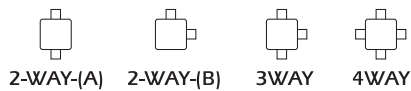


## RACE WAY SYSTEM



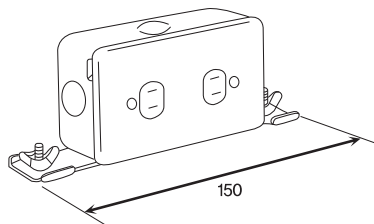
### Box Connector

Box Connector is a accessory which connect Raceway body with tele-communication panel or others. And in the construction field it make Raceway line to robust as to install it on the wall.



### Junction Box

Junction Box is a fitting which change the horizontal direction at I shape, L shape, T shape, + shape in the Raceway line. Assembled method is same as joiner's

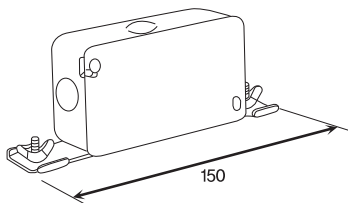


### Receptacle Box

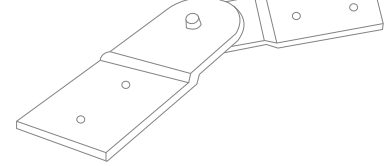
Receptacle Box is a fitting which install the consent telephone jacks, tele-communication jacks, television jacks. It's spcification is same as the switch box.

### Joint Box

Receptacle Box is a fitting which install the consent telephone jacks, tele-communication jacks, television jacks. It's spcification is same as the switch box.

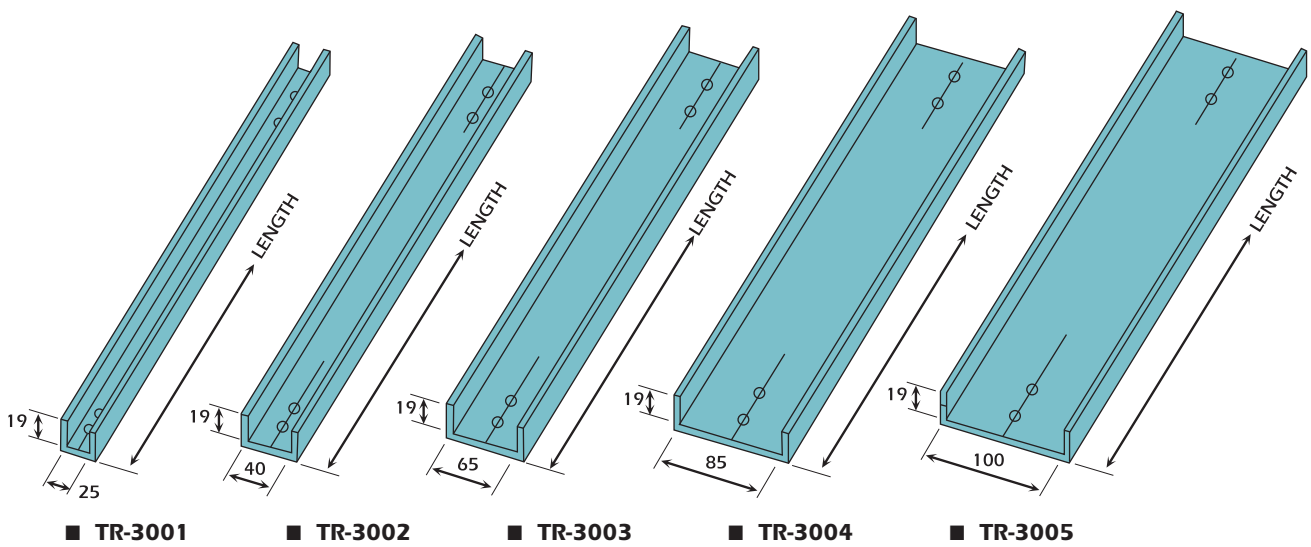




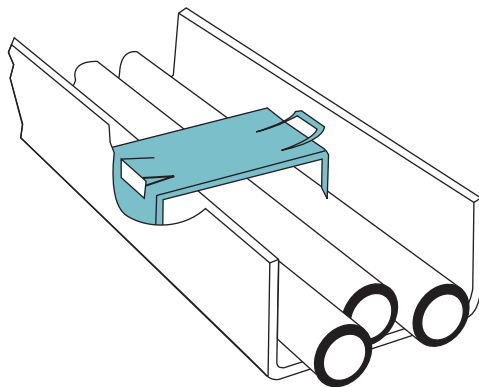


## TUBING RACEWAY FITTINGS

DAN HAN TUBING RACEWAY A support system consisting of 5 sizes of small channel sections to house or single runs of tubing for instrumentation in petro-chemical plants, power houses, sewerage and water treatment facilities, etc, TUBING RACEWAY is available in 1.6t pre-glavanized steel Stainless steel and aluminum. Sections available with holes for those ordering. TUBING RACEWAY - FITTINGS which must be ordered. TUBING RACEWAY is especially adaptable for use with PUSH CLIP that holds tubes in the RACEWAY by simple thumb pressure.



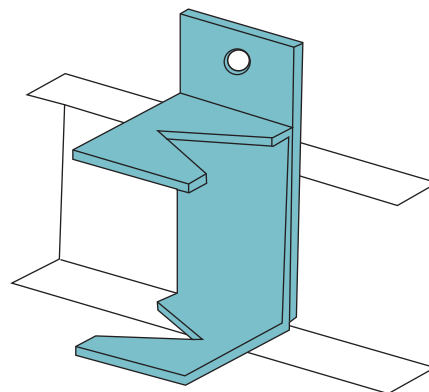
## PUSH CLIP



UNIT : mm

CATALOG NO.	W
TR - 3001-1	25
TR - 3002-1	40
TR - 3003-1	65
TR - 3004-1	85
TR - 3005-1	100

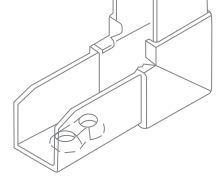
## WALL BRACKET



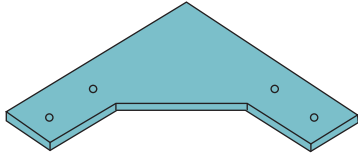
UNIT : mm

CATALOG NO.	W
TR - 3001-2	25
TR - 3002-2	40
TR - 3003-2	65
TR - 3004-2	85
TR - 3005-2	100

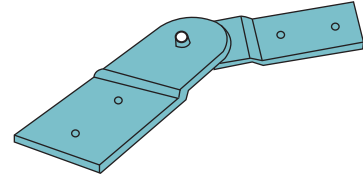
# CABLE TRAY SYSTEM



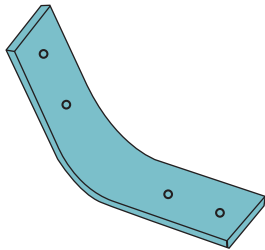
## TUBING RACEWAY FITTINGS



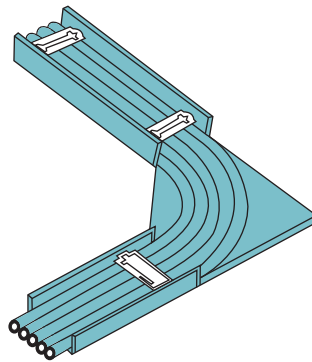
■ 90° Elbow



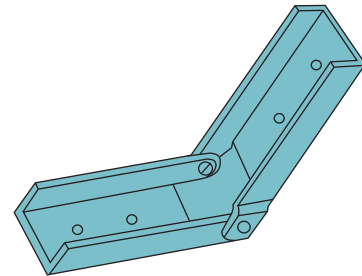
■ Adjustable Horizontal Connector



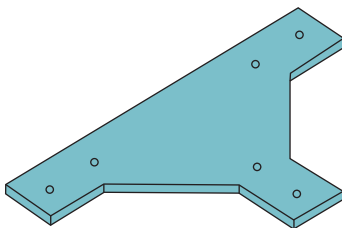
■ 90° Vertical Riser



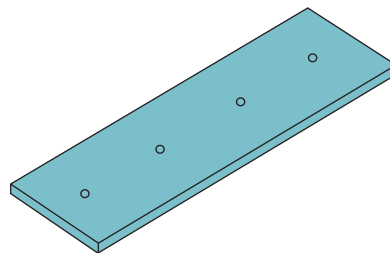
■ Example : Push Clips and Raceway



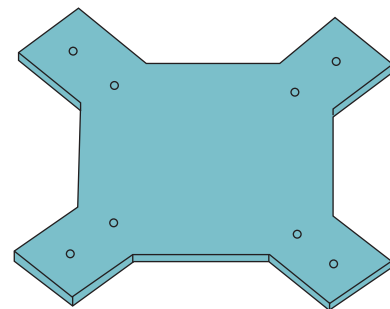
■ Adjustable Vertical Connector



■ Tee



■ Connector



■ Cross

TUBING  
RACEWAY

Description	CATALOG NO.				
	25 <sup>m</sup> / <sub>m</sub>	40 <sup>m</sup> / <sub>m</sub>	65 <sup>m</sup> / <sub>m</sub>	85 <sup>m</sup> / <sub>m</sub>	100 <sup>m</sup> / <sub>m</sub>
90° Elbow	TR - 3001 - 3	TR - 3002 - 3	TR - 3003 - 3	TR - 3004 - 3	TR - 3005 - 3
90° Vertical Riser	TR - 3001 - 4	TR - 3002 - 4	TR - 3003 - 4	TR - 3004 - 4	TR - 3005 - 4
Tee	TR - 3001 - 5	TR - 3002 - 5	TR - 3003 - 5	TR - 3004 - 5	TR - 3005 - 5
Connector	TR - 3001 - 6	TR - 3002 - 6	TR - 3003 - 6	TR - 3004 - 6	TR - 3005 - 6
Adj. Horizontal Connector	TR - 3001 - 7	TR - 3002 - 7	TR - 3003 - 7	TR - 3004 - 7	TR - 3005 - 7
Adj. Vertical Connector	TR - 3001 - 8	TR - 3002 - 8	TR - 3003 - 8	TR - 3004 - 8	TR - 3005 - 8
Cross	TR - 3001 - 9	TR - 3002 - 9	TR - 3003 - 9	TR - 3004 - 9	TR - 3005 - 9



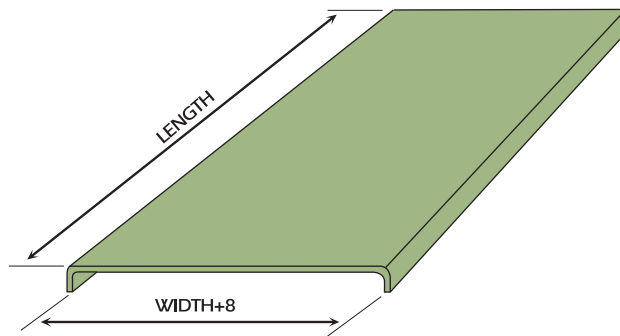
## COVERS

Covers are used where there is a possibility of damage to cables resulting from objects falling or being placed on the trays. Covers are sometimes used on vertical tray runs for a distance of 1.8 to 2.4M above the floor line to protect cables from personnel.

Where cable jacketing material being used is not suitable for exposure to the elements, covers are recommended for all out door tray runs.

Covers are flanged on both sides and furnished in 3M lengths. Both solid and louvered covers are available in either 1.6t pre-galvanized sheet, steel plate, Aluminium or stainless steel, 6 clamps per straight and order cover clips as separate item.

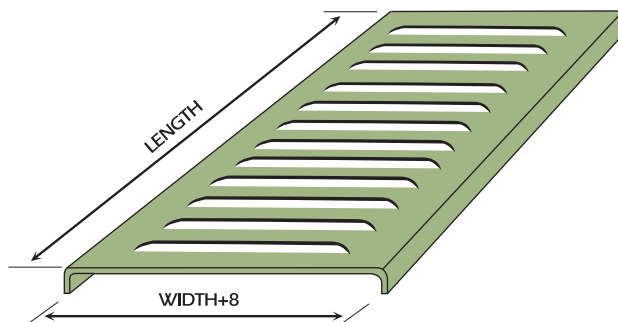
### SOLID COVER STRAIGHT



UNIT : mm

CATALOG NO.	Tray Width
SC - 4001	50
SC - 4002	100
SC - 4003	150
SC - 4004	200
SC - 4005	300
SC - 4006	450
SC - 4007	600
SC - 4008	750
SC - 4009	900

### LOUVERED COVER STRAIGHT



UNIT : mm

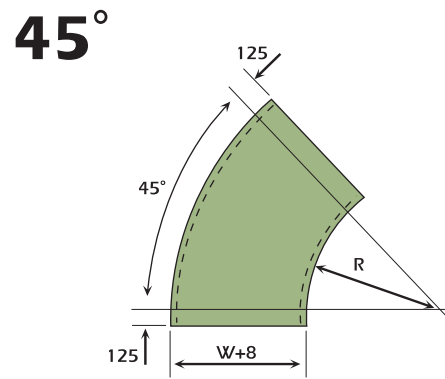
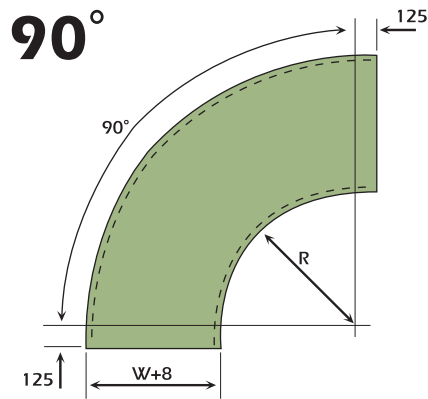
CATALOG NO.	Tray Width
LC - 4001	50
LC - 4002	100
LC - 4003	150
LC - 4004	200
LC - 4005	300
LC - 4006	450
LC - 4007	600
LC - 4008	750
LC - 4009	900



## COVERS

### HORIZONTAL BEND COVER

### HORIZONTAL BEND COVER



UNIT : mm

UNIT : mm

CATALOG NO. SOLID	Tray W	Tray R	CATALOG NO. LOUVERED
SC-4010-1	50	50	LC-4010-1
SC-4011-1	100	150	LC-4011-1
SC-4011-2		300	LC-4011-2
SC-4012-1	150	300	LC-4012-1
SC-4012-2		600	LC-4012-2
SC-4012-3		900	LC-4012-3
SC-4013-1	200	300	LC-4013-1
SC-4013-2		600	LC-4013-2
SC-4013-3		900	LC-4013-3
SC-4014-1	300	300	LC-4014-1
SC-4014-2		600	LC-4014-2
SC-4014-3		900	LC-4014-3
SC-4015-1	450	300	LC-4015-1
SC-4015-2		600	LC-4015-2
SC-4015-3		900	LC-4015-3
SC-4016-1	600	300	LC-4016-1
SC-4016-2		600	LC-4016-2
SC-4016-3		900	LC-4016-3
SC-4017-1	750	300	LC-4017-1
SC-4017-2		600	LC-4017-2
SC-4017-3		900	LC-4017-3
SC-4018-1	900	300	LC-4018-1
SC-4018-2		600	LC-4018-2
SC-4018-3		900	LC-4018-3

CATALOG NO. SOLID	Tray W	Tray R	CATALOG NO. LOUVERED
SC-4028-1	50	50	LC-4028-1
SC-4029-1	100	150	LC-4029-1
SC-4029-2		300	LC-4029-2
SC-4030-1	150	300	LC-4030-1
SC-4030-2		600	LC-4030-2
SC-4030-3		900	LC-4030-3
SC-4031-1	200	300	LC-4031-1
SC-4031-2		600	LC-4031-2
SC-4031-3		900	LC-4031-3
SC-4032-1	300	300	LC-4032-1
SC-4032-2		600	LC-4032-2
SC-4032-3		900	LC-4032-3
SC-4033-1	450	300	LC-4033-1
SC-4033-2		600	LC-4033-2
SC-4033-3		900	LC-4033-3
SC-4034-1	600	300	LC-4034-1
SC-4034-2		600	LC-4034-2
SC-4034-3		900	LC-4034-3
SC-4035-1	750	300	LC-4035-1
SC-4035-2		600	LC-4035-2
SC-4035-3		900	LC-4035-3
SC-4036-1	900	300	LC-4036-1
SC-4036-2		600	LC-4036-2
SC-4036-3		900	LC-4036-3

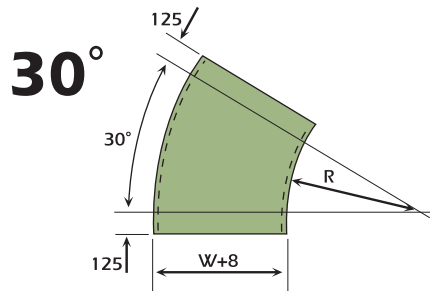
# CABLE TRAY SYSTEM



UNIT : mm

## COVERS

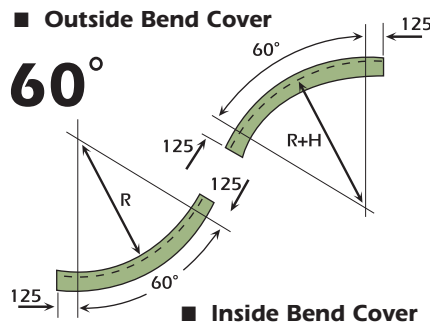
### HORIZONTAL BEND COVER



CATALOG NO. SOLID	Tray W	Tray R	CATALOG NO. LOUVERED
SC-4037-1	50	50	LC-4037-1
SC-4038-1	100	150	LC-4038-1
SC-4038-2		300	LC-4038-2
SC-4039-1	150	300	LC-4039-1
SC-4039-2		600	LC-4039-2
SC-4039-3		900	LC-4039-3
SC-4040-1	200	300	LC-4040-1
SC-4040-2		600	LC-4040-2
SC-4040-3		900	LC-4040-3
SC-4041-1	300	300	LC-4041-1
SC-4041-2		600	LC-4041-2
SC-4041-3		900	LC-4041-3
SC-4042-1	450	300	LC-4042-1
SC-4042-2		600	LC-4042-2
SC-4042-3		900	LC-4042-3
SC-4043-1	600	300	LC-4043-1
SC-4043-2		600	LC-4043-2
SC-4043-3		900	LC-4043-3
SC-4044-1	750	300	LC-4044-1
SC-4044-2		600	LC-4044-2
SC-4044-3		900	LC-4044-3
SC-4045-1	900	300	LC-4045-1
SC-4045-2		600	LC-4045-2
SC-4045-3		900	LC-4045-3

UNIT : mm

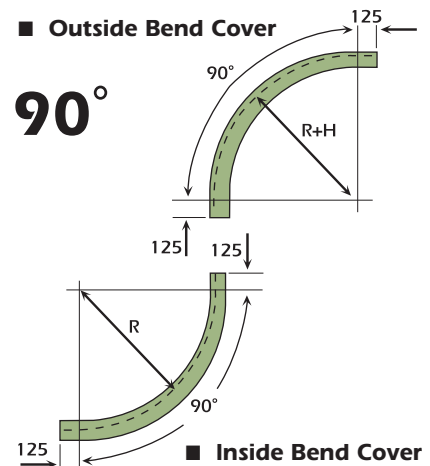
### VERTICAL BEND COVER



Inside Solid	Bend Louvered	Tray W	Tray R	Outside Solid	Bend Louvered
SC-4064-1	LC-4064-1	50	50	SC-4073-1	LC-4073-1
SC-4065-1	LC-4065-1	100	150	SC-4074-1	LC-4074-1
SC-4065-2	LC-4065-2		300	SC-4074-2	LC-4074-2
SC-4066-1	LC-4066-1	150	300	SC-4075-1	LC-4075-1
SC-4066-2	LC-4066-2		600	SC-4075-2	LC-4075-2
SC-4066-3	LC-4066-3		900	SC-4075-3	LC-4075-3
SC-4067-1	LC-4067-1	200	300	SC-4076-1	LC-4076-1
SC-4067-2	LC-4067-2		600	SC-4076-2	LC-4076-2
SC-4067-3	LC-4067-3		900	SC-4076-3	LC-4076-3
SC-4068-1	LC-4068-1	300	300	SC-4077-1	LC-4077-1
SC-4068-2	LC-4068-2		600	SC-4077-2	LC-4077-2
SC-4068-3	LC-4068-3		900	SC-4077-3	LC-4077-3
SC-4069-1	LC-4069-1	450	300	SC-4078-1	LC-4078-1
SC-4069-2	LC-4069-2		600	SC-4078-2	LC-4078-2
SC-4069-3	LC-4069-3		900	SC-4078-3	LC-4078-3
SC-4070-1	LC-4070-1	600	300	SC-4079-1	LC-4079-1
SC-4070-2	LC-4070-2		600	SC-4079-2	LC-4079-2
SC-4070-3	LC-4070-3		900	SC-4079-3	LC-4079-3
SC-4071-1	LC-4071-1	750	300	SC-4080-1	LC-4080-1
SC-4071-2	LC-4071-2		600	SC-4080-2	LC-4080-2
SC-4071-3	LC-4071-3		900	SC-4080-3	LC-4080-3
SC-4072-1	LC-4072-1	900	300	SC-4081-1	LC-4081-1
SC-4072-2	LC-4072-2		600	SC-4081-2	LC-4081-2
SC-4072-3	LC-4072-3		900	SC-4081-3	LC-4081-3

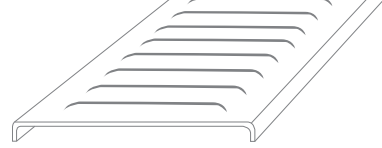
UNIT : mm

### VERTICAL BEND COVER



Inside Solid	Bend Louvered	Tray W	Tray R	Outside Solid	Bend Louvered
SC-4046-1	LC-4046-1	50	50	SC-4055-1	LC-4055-1
SC-4047-1	LC-4047-1	100	150	SC-4056-1	LC-4056-1
SC-4047-2	LC-4047-2		300	SC-4056-2	LC-4056-2
SC-4048-1	LC-4048-1	150	300	SC-4057-1	LC-4057-1
SC-4048-2	LC-4048-2		600	SC-4057-2	LC-4057-2
SC-4048-3	LC-4048-3		900	SC-4057-3	LC-4057-3
SC-4049-1	LC-4049-1	200	300	SC-4058-1	LC-4058-1
SC-4049-2	LC-4049-2		600	SC-4058-2	LC-4058-2
SC-4049-3	LC-4049-3		900	SC-4058-3	LC-4058-3
SC-4050-1	LC-4050-1	300	300	SC-4059-1	LC-4059-1
SC-4050-2	LC-4050-2		600	SC-4059-2	LC-4059-2
SC-4050-3	LC-4050-3		900	SC-4059-3	LC-4059-3
SC-4051-1	LC-4051-1	450	300	SC-4060-1	LC-4060-1
SC-4051-2	LC-4051-2		600	SC-4060-2	LC-4060-2
SC-4051-3	LC-4051-3		900	SC-4060-3	LC-4060-3
SC-4052-1	LC-4052-1	600	300	SC-4061-1	LC-4061-1
SC-4052-2	LC-4052-2		600	SC-4061-2	LC-4061-2
SC-4052-3	LC-4052-3		900	SC-4061-3	LC-4061-3
SC-4053-1	LC-4053-1	750	300	SC-4062-1	LC-4062-1
SC-4053-2	LC-4053-2		600	SC-4062-2	LC-4062-2
SC-4053-3	LC-4053-3		900	SC-4062-3	LC-4062-3
SC-4054-1	LC-4054-1	900	300	SC-4063-1	LC-4063-1
SC-4054-2	LC-4054-2		600	SC-4063-2	LC-4063-2
SC-4054-3	LC-4054-3		900	SC-4063-3	LC-4063-3

# CABLE TRAY SYSTEM

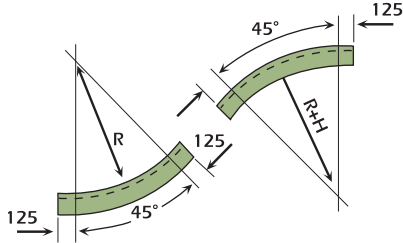


UNIT : mm

## COVERS

### VERTICAL BEND COVER

#### 45° ■ Outside Bend Cover

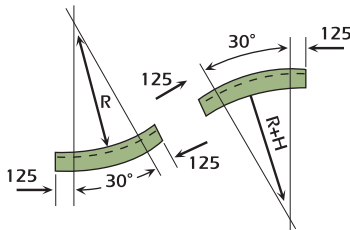


#### ■ Inside Bend Cover

Inside Solid	Bend Louvered	Tray W	Tray R	Outside Solid	Bend Louvered
SC-4082-1	LC-4082-1	50	50	SC-4091-1	LC-4091-1
SC-4083-1	LC-4083-1	100	150	SC-4092-1	LC-4092-1
SC-4083-2	LC-4083-2		300	SC-4092-2	LC-4092-2
SC-4084-1	LC-4084-1	150	300	SC-4093-1	LC-4093-1
SC-4084-2	LC-4084-2		600	SC-4093-2	LC-4093-2
SC-4084-3	LC-4084-3		900	SC-4093-3	LC-4093-3
SC-4085-1	LC-4085-1	200	300	SC-4094-1	LC-4094-1
SC-4085-2	LC-4085-2		600	SC-4094-2	LC-4094-2
SC-4085-3	LC-4085-3		900	SC-4094-3	LC-4094-3
SC-4086-1	LC-4086-1	300	300	SC-4095-1	LC-4095-1
SC-4086-2	LC-4086-2		600	SC-4095-2	LC-4095-2
SC-4086-3	LC-4086-3		900	SC-4095-3	LC-4095-3
SC-4087-1	LC-4087-1	450	300	SC-4096-1	LC-4096-1
SC-4087-2	LC-4087-2		600	SC-4096-2	LC-4096-2
SC-4087-3	LC-4087-3		900	SC-4096-3	LC-4096-3
SC-4088-1	LC-4088-1	600	300	SC-4097-1	LC-4097-1
SC-4088-2	LC-4088-2		600	SC-4097-2	LC-4097-2
SC-4088-3	LC-4088-3		900	SC-4097-3	LC-4097-3
SC-4089-1	LC-4089-1	750	300	SC-4098-1	LC-4098-1
SC-4089-2	LC-4089-2		600	SC-4098-2	LC-4098-2
SC-4089-3	LC-4089-3		900	SC-4098-3	LC-4098-3
SC-4090-1	LC-4090-1	900	300	SC-4099-1	LC-4099-1
SC-4090-2	LC-4090-2		600	SC-4099-2	LC-4099-2
SC-4090-3	LC-4090-3		900	SC-4099-3	LC-4099-3

### VERTICAL BEND COVER

#### 30° ■ Outside Bend Cover

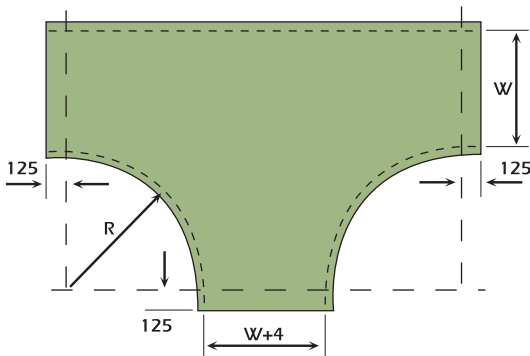


#### ■ Inside Bend Cover

Inside Solid	Bend Louvered	Tray W	Tray R	Outside Solid	Bend Louvered
SC-4100-1	LC-4100-1	50	50	SC-4109-1	LC-4109-1
SC-4101-1	LC-4101-1	100	150	SC-4110-1	LC-4110-1
SC-4101-2	LC-4101-2		300	SC-4110-2	LC-4110-2
SC-4102-1	LC-4102-1	150	300	SC-4111-1	LC-4111-1
SC-4102-2	LC-4102-2		600	SC-4111-2	LC-4111-2
SC-4102-3	LC-4102-3		900	SC-4111-3	LC-4111-3
SC-4103-1	LC-4103-1	200	300	SC-4112-1	LC-4112-1
SC-4103-2	LC-4103-2		600	SC-4112-2	LC-4112-2
SC-4103-3	LC-4103-3		900	SC-4112-3	LC-4112-3
SC-4104-1	LC-4104-1	300	300	SC-4113-1	LC-4113-1
SC-4104-2	LC-4104-2		600	SC-4113-2	LC-4113-2
SC-4104-3	LC-4104-3		900	SC-4113-3	LC-4113-3
SC-4105-1	LC-4105-1	450	300	SC-4114-1	LC-4114-1
SC-4105-2	LC-4105-2		600	SC-4114-2	LC-4114-2
SC-4105-3	LC-4105-3		900	SC-4114-3	LC-4114-3
SC-4106-1	LC-4106-1	600	300	SC-4115-1	LC-4115-1
SC-4106-2	LC-4106-2		600	SC-4115-2	LC-4115-2
SC-4106-3	LC-4106-3		900	SC-4115-3	LC-4115-3
SC-4107-1	LC-4107-1	750	300	SC-4116-1	LC-4116-1
SC-4107-2	LC-4107-2		600	SC-4116-2	LC-4116-2
SC-4107-3	LC-4107-3		900	SC-4116-3	LC-4116-3
SC-4108-1	LC-4108-1	900	300	SC-4117-1	LC-4117-1
SC-4108-2	LC-4108-2		600	SC-4117-2	LC-4117-2
SC-4108-3	LC-4108-3		900	SC-4117-3	LC-4117-3

UNIT : mm

### HORIZONTAL TEE COVER

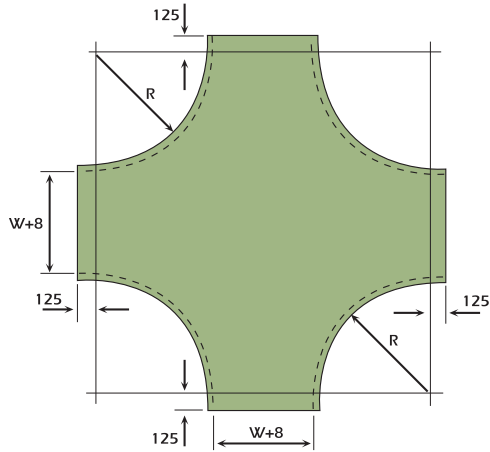


CATALOG NO. SOLID	Tray W	Tray R	CATALOG NO. LOUVERED
SC-4118-1	50	50	LC-4118-1
SC-4119-1	100	150	LC-4119-1
SC-4119-2		300	LC-4119-2
SC-4120-1	150	300	LC-4120-1
SC-4120-2		600	LC-4120-2
SC-4120-3		900	LC-4120-3
SC-4121-1	200	300	LC-4121-1
SC-4121-2		600	LC-4121-2
SC-4121-3		900	LC-4121-3
SC-4122-1	300	300	LC-4122-1
SC-4122-2		600	LC-4122-2
SC-4122-3		900	LC-4122-3
SC-4123-1	450	300	LC-4123-1
SC-4123-2		600	LC-4123-2
SC-4123-3		900	LC-4123-3
SC-4124-1	600	300	LC-4124-1
SC-4124-2		600	LC-4124-2
SC-4124-3		900	LC-4124-3
SC-4125-1	750	300	LC-4125-1
SC-4125-2		600	LC-4125-2
SC-4125-3		900	LC-4125-3
SC-4126-1	900	300	LC-4126-1
SC-4126-2		600	LC-4126-2
SC-4126-3		900	LC-4126-3

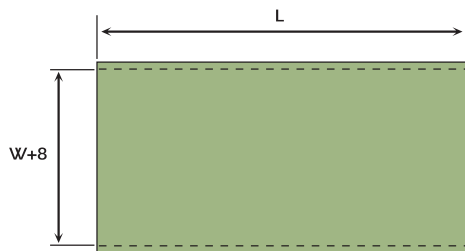


## COVERS

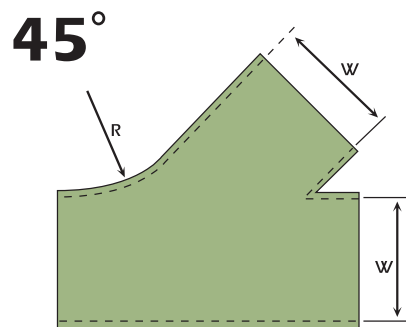
### HORIZONTAL CROSS-COVER



### VERTICAL TEE COVER



### HORIZONTAL WYE COVER



■ LEFT-HAND SHAPE.  
RIGHT-HAND COVER IS ALSO  
IDENTICAL

UNIT : mm

CATALOG NO. SOLID	Tray W	Tray R	CATALOG NO. LOUVERED
SC-4127-1	50	50	LC-4127-1
SC-4128-1	100	150	LC-4128-1
SC-4128-2		300	LC-4128-2
SC-4129-1	150	300	LC-4129-1
SC-4129-2		600	LC-4129-2
SC-4129-3		900	LC-4129-3
SC-4130-1	200	300	LC-4130-1
SC-4130-2		600	LC-4130-2
SC-4130-3		900	LC-4130-3
SC-4131-1	300	300	LC-4131-1
SC-4131-2		600	LC-4131-2
SC-4131-3		900	LC-4131-3
SC-4132-1	450	300	LC-4132-1
SC-4132-2		600	LC-4132-2
SC-4132-3		900	LC-4132-3
SC-4133-1	600	300	LC-4133-1
SC-4133-2		600	LC-4133-2
SC-4133-3		900	LC-4133-3
SC-4134-1	750	300	LC-4134-1
SC-4134-2		600	LC-4134-2
SC-4134-3		900	LC-4134-3
SC-4135-1	900	300	LC-4135-1
SC-4135-2		600	LC-4135-2
SC-4135-3		900	LC-4135-3

UNIT : mm

CATALOG NO. SOLID	Tray W	Tray R	CATALOG NO. LOUVERED
SC-4136-1	50	50	LC-4136-1
SC-4137-1	100	150	LC-4137-1
SC-4137-2		300	LC-4137-2
SC-4138-1	150	300	LC-4138-1
SC-4138-2		600	LC-4138-2
SC-4138-3		900	LC-4138-3
SC-4139-1	200	300	LC-4139-1
SC-4139-2		600	LC-4139-2
SC-4139-3		900	LC-4139-3
SC-4140-1	300	300	LC-4140-1
SC-4140-2		600	LC-4140-2
SC-4140-3		900	LC-4140-3
SC-4141-1	450	300	LC-4141-1
SC-4141-2		600	LC-4141-2
SC-4141-3		900	LC-4141-3
SC-4142-1	600	300	LC-4142-1
SC-4142-2		600	LC-4142-2
SC-4142-3		900	LC-4142-3
SC-4143-1	750	300	LC-4143-1
SC-4143-2		600	LC-4143-2
SC-4143-3		900	LC-4143-3
SC-4144-1	900	300	LC-4144-1
SC-4144-2		600	LC-4144-2
SC-4144-3		900	LC-4144-3

UNIT : mm

Inside Solid	Bend Louvered	Tray W	Tray R	Outside Solid	Bend Louvered
SC-4145-1	LC-4145-1	150	300	SC-4152-1	LC-4152-1
SC-4145-2	LC-4145-2		600	LC-4152-2	
SC-4146-1	LC-4146-1	200	300	SC-4153-1	LC-4153-1
SC-4146-2	LC-4146-2		600	LC-4153-2	
SC-4147-1	LC-4147-1	300	300	SC-4154-1	LC-4154-1
SC-4147-2	LC-4147-2		600	LC-4154-2	
SC-4148-1	LC-4148-1	450	300	SC-4155-1	LC-4155-1
SC-4148-2	LC-4148-2		600	LC-4155-2	
SC-4149-1	LC-4149-1	600	300	SC-4156-1	LC-4156-1
SC-4149-2	LC-4149-2		600	LC-4156-2	
SC-4150-1	LC-4150-1	750	300	SC-4157-1	LC-4157-1
SC-4150-2	LC-4150-2		600	LC-4157-2	
SC-4151-1	LC-4151-1	900	300	SC-4158-1	LC-4158-1
SC-4151-2	LC-4151-2		600	LC-4158-2	

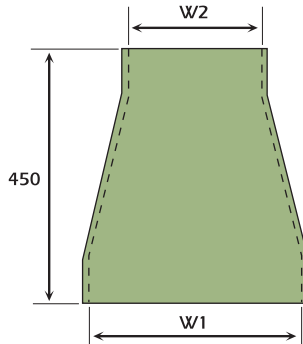
# CABLE TRAY SYSTEM



UNIT : mm

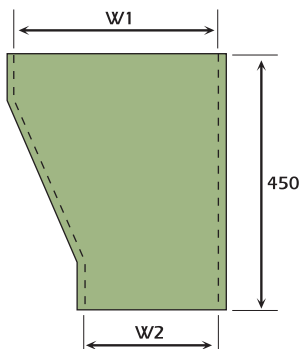
## COVERS

### STRAIGHT REDUCER COVER



CATALOG NO. SOLID	Tray W	Tray R	CATALOG NO. LOUVERED
SC-4159		50	LC-4159
SC-4160	100	50	LC-4160
SC-4161	150	100	LC-4161
SC-4162	150	50	LC-4162
SC-4163	200	100	LC-4163
SC-4164	200	150	LC-4164
SC-4165	200	50	LC-4165
SC-4166	300	100	LC-4166
SC-4167	300	150	LC-4167
SC-4168	300	200	LC-4168
SC-4169	300	50	LC-4169
SC-4170	450	100	LC-4170
SC-4171	450	150	LC-4171
SC-4172	450	200	LC-4172
SC-4173	450	300	LC-4173
SC-4174	450	50	LC-4174
SC-4175	600	100	LC-4175
SC-4176	600	150	LC-4176
SC-4177	600	200	LC-4177
SC-4178	600	300	LC-4178
SC-4179	600	450	LC-4179
SC-4180	600	50	LC-4180
SC-4181	750	100	LC-4181
SC-4182	750	150	LC-4182
SC-4183	750	200	LC-4183
SC-4184	750	300	LC-4184
SC-4185	750	450	LC-4185
SC-4186	750	600	LC-4186
	750		

### RIGHT & LEFT HAND REDUCER COVER



■ LEFT-HAND SHAPE.  
RIGHT-HAND COVER IS  
ALSO IDENTICAL

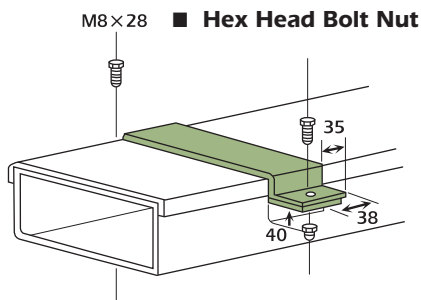
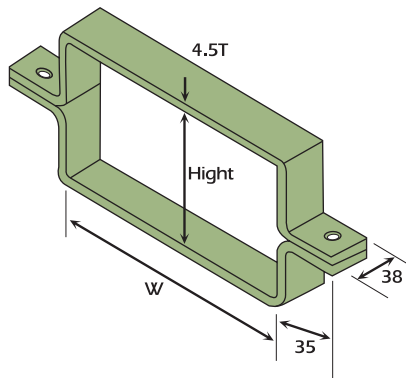
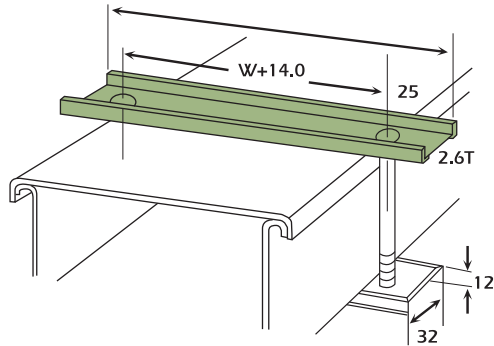
UNIT : mm

LEFT HAND		Tray W1	Tray W2	RIGHT HAND	
Solid	Louvered			Solid	Louvered
SC-4187	LC-4187	100	50	SC-4217	LC-4217
SC-4188	LC-4188	150	50	SC-4218	LC-4218
SC-4189	LC-4189	150	100	SC-4219	LC-4219
SC-4190	LC-4190	200	50	SC-4220	LC-4220
SC-4191	LC-4191	200	100	SC-4221	LC-4221
SC-4192	LC-4192	300	150	SC-4222	LC-4222
SC-4193	LC-4193	300	50	SC-4223	LC-4223
SC-4194	LC-4194	300	100	SC-4224	LC-4224
SC-4195	LC-4195	300	150	SC-4225	LC-4225
SC-4196	LC-4196	450	200	SC-4226	LC-4226
SC-4197	LC-4197	450	50	SC-4227	LC-4227
SC-4198	LC-4198	450	100	SC-4228	LC-4228
SC-4199	LC-4199	450	150	SC-4229	LC-4229
SC-4200	LC-4200	450	200	SC-4230	LC-4230
SC-4201	LC-4201	600	300	SC-4231	LC-4231
SC-4202	LC-4202	600	50	SC-4232	LC-4232
SC-4203	LC-4203	600	100	SC-4233	LC-4233
SC-4204	LC-4204	600	150	SC-4234	LC-4234
SC-4205	LC-4205	600	200	SC-4235	LC-4235
SC-4206	LC-4206	600	300	SC-4236	LC-4236
SC-4207	LC-4207	600	450	SC-4237	LC-4237
SC-4208	LC-4208	750	50	SC-4238	LC-4238
SC-4209	LC-4209	750	100	SC-4239	LC-4239
SC-4210	LC-4210	750	150	SC-4240	LC-4240
SC-4211	LC-4211	750	200	SC-4241	LC-4241
SC-4212	LC-4212	750	300	SC-4242	LC-4242
SC-4213	LC-4213	750	450	SC-4243	LC-4243
SC-4214	LC-4214	750	600	SC-4244	LC-4244
SC-4215	LC-4215	750	450	SC-4245	LC-4245
SC-4216	LC-4216	750	600	SC-4246	LC-4246





## COVERS COVER CONNECTOR



Cover clamps are recommended for installation where uplift or vibration is a problem and for vertical or steep rise runs.

UNIT : mm

CATALOG NO.	Tray W
4238 - H	150
4239 - H	200
4240 - H	300
4241 - H	450
4242 - H	600
4243 - H	750
4244 - H	900

Cover clamps are recommended for installation where uplift or vibration is a problem and for vertical or steep rise runs.

UNIT : mm

CATALOG NO.	Tray W
4245 - H	150
4246 - H	200
4247 - H	300
4248 - H	450
4249 - H	600
4250 - H	750
4251 - H	900

Cover clamps are recommended for installation where uplift or vibration is a problem and for vertical or steep rise runs.

UNIT : mm

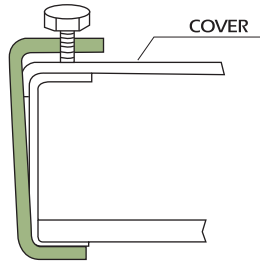
CATALOG NO.	Tray W
4252 - H	150
4253 - H	200
4254 - H	300
4255 - H	450
4256 - H	600
4257 - H	750
4258 - H	900

# CABLE TRAY SYSTEM



## COVERS

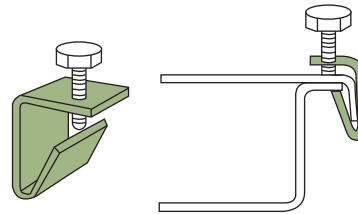
### COVER CLAMP



CATALOG NO. 4261

### COVER CLIP

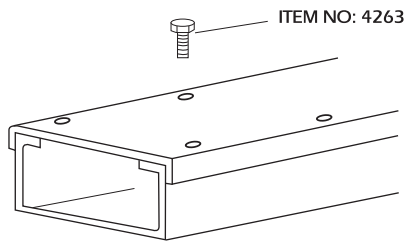
W1/4 x 3/4" Lg Wing Bolt Which is Electro Galvanized



CATALOG NO. 4262

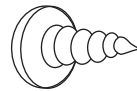
- Cover Clips provide economical cover hold downs for horizontal or shallow rising runs.

### SHEET METAL SCREWS

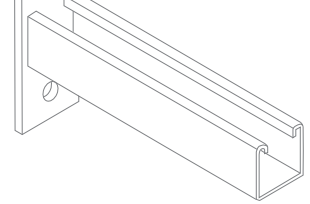


CATALOG NO. 4263

- all covers may be secured with Sheet Metal Screws. 6 x 3.8" Zinc plated

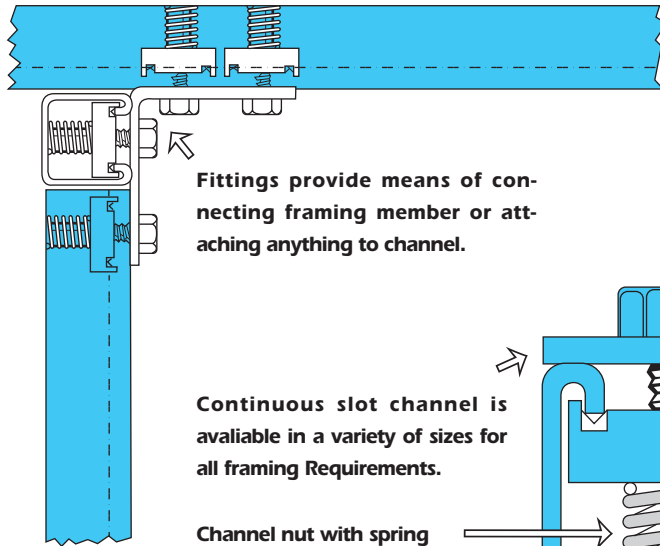


# CABLE TRAY SYSTEM



## TRAY SUPPORT SYSTEM & ACCESSORIES

### THE EASY WAY TO BUILD ALL METAL FRAMING STRUCTURES

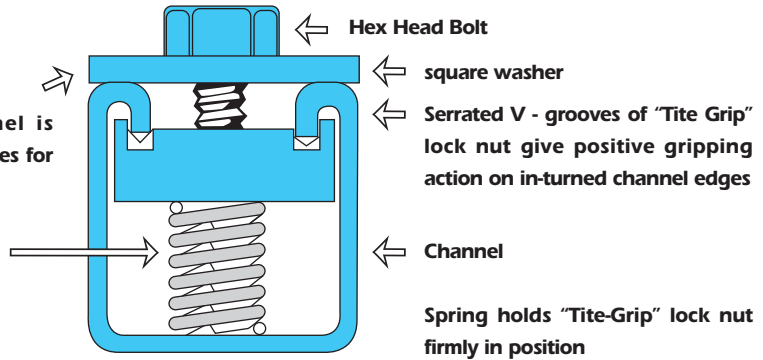


Fittings provide means of connecting framing member or attaching anything to channel.

Continuous slot channel is available in a variety of sizes for all framing Requirements.

Channel nut with spring

All metal framing structures may be quickly and easily erected using channel and fitting. The only tools equired are a hacksaw and wrench is as flexible as your imagination. it provides the strength of welded construction but may be taken apart as easily as it was erected



Hex Head Bolt

square washer

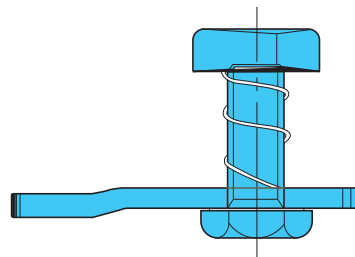
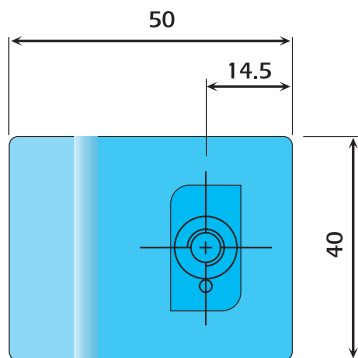
Serrated V - grooves of "Tite Grip" lock nut give positive gripping action on in-turned channel edges

Channel

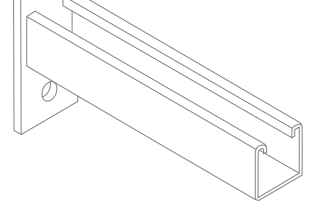
Spring holds "Tite-Grip" lock nut firmly in position

## HOLD DOWN CLAMP

Spring bolt of existing and Nut contracting methods with complicating, the headquarters of a party the product of work timely shortening and new style which decreases the dangerousness of lossing in contracting in once develops HOLD DOWN CLAMP where and they are new style methods it makes.



# CABLE TRAY SYSTEM



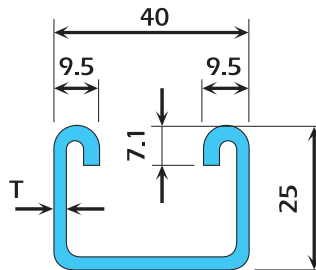
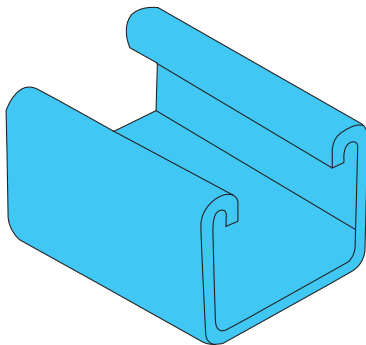
## TRAY SUPPORT SYSTEM & ACCESSORIES

### SUPPORT CHANNEL

### SINGLE CHANNEL

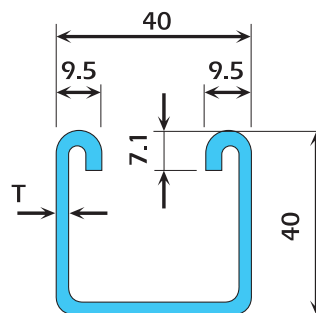
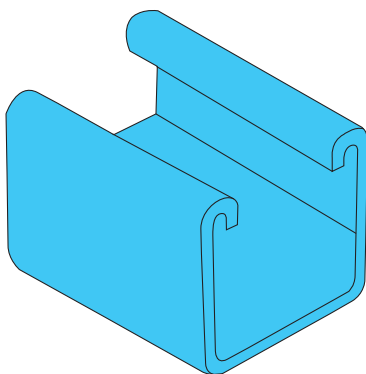
- Material : SPHC or SGCC or Stainless Steel
- Other Lengths available on request
- Hot Dip Galvanized after fabrication, or Electrostatic powder coated
- 2.3t or 2.6t Steel sheet, 2.5t Stainless Steel or Aluminum

### DH 25 S - CHANNEL



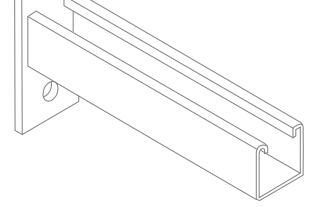
CATALOG NO.	LENGTH
DH-SC - 2510	1000
DH-SC - 2515	1500
DH-SC - 2520	2000
DH-SC - 2530	3000
DH-SC - 2560	6000

### DH 40 S - CHANNEL



CATALOG NO.	LENGTH
DH-SC - 4010	1000
DH-SC - 4015	1500
DH-SC - 4020	2000
DH-SC - 4030	3000
DH-SC - 4060	6000

# CABLE TRAY SYSTEM



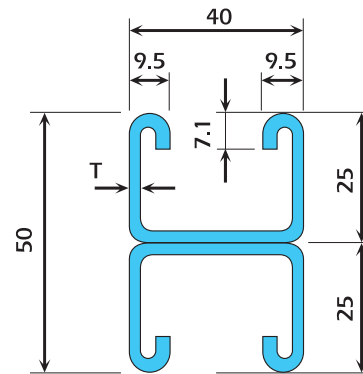
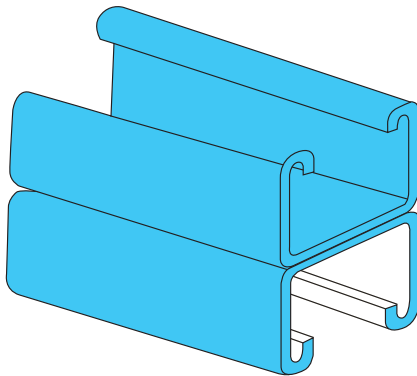
## TRAY SUPPORT SYSTEM & ACCESSORIES

### SUPPORT CHANNEL

### DOUBLE CHANNEL

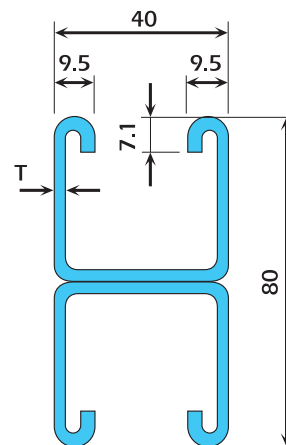
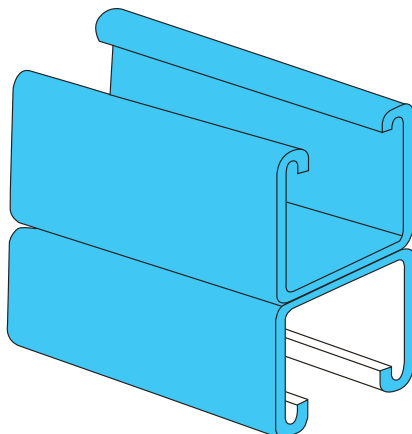
- Material : "SPHC" or "SGCC or Stainless Steel
- Other Lengths available on request
- Hot Dip Galvanized after fabrication, or Electrostatic powder coated
- 2.3t or 2.6t Steel sheet, 2.5t Stainless Steel or Aluminum

### DH 50 D - CHANNEL



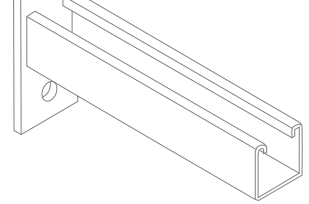
CATALOG NO.	LENGTH
DH-DC - 5010	1000
DH-DC - 5015	1500
DH-DC - 5020	2000
DH-DC - 5030	3000
DH-DC - 5060	6000

### DH 80 D - CHANNEL



CATALOG NO.	LENGTH
DH-DC - 8010	1000
DH-DC - 8015	1500
DH-DC - 8020	2000
DH-DC - 8030	3000
DH-DC - 8060	6000

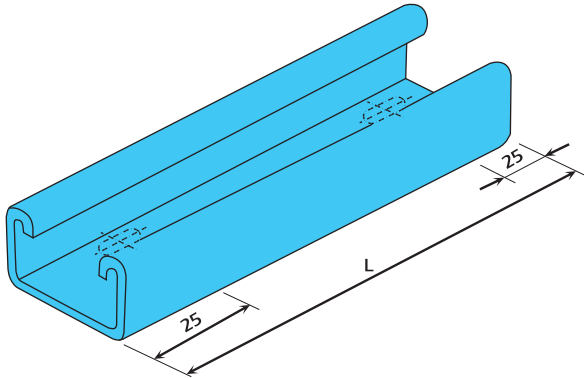
# CABLE TRAY SYSTEM



## TRAY SUPPORT SYSTEM & ACCESSORIES

### SUPPORT CHANNEL

#### HANGER CHANNEL



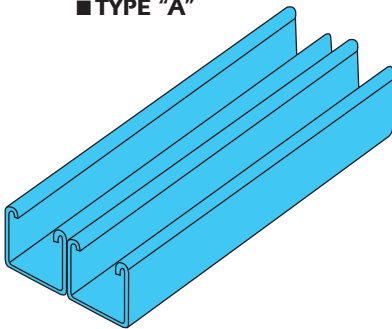
- Material : "SPHC" or "SGCC or Stainless Steel
- Other Lengths available on request
- Hot Dip Galvanized after fabrication, or Electrostatic powder coated
- 2.3t or 2.6t Steel sheet, 2.5t Stainless Steel or Aluminum

CATALOG NO.	LENGTH	TRAY WIDTH
DH-HC - 320	300	200
DH-HC - 430	400	300
DH-HC - 540	500	400
DH-HC - 650	600	500
DH-HC - 760	700	600
DH-HC - 870	800	700
DH-HC - 980	900	800
DH-HC - 1090	1000	900
DH-HC - 1110	1100	1000

#### TYPE OF DOUBLE CHANNEL

- Material : "SPHC" or "SGCC or Stainless Steel
- Other Lengths available on request
- Hot Dip Galvanized after fabrication, or Electrostatic powder coated
- 2.3t or 2.6t Steel sheet, 2.5t Stainless Steel or Aluminum

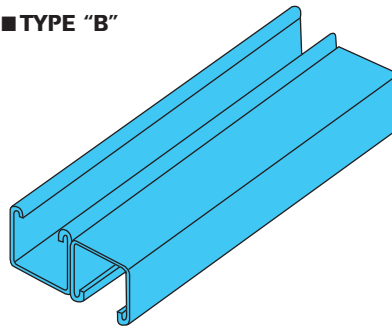
■ TYPE "A"



CATALOG NO.

DH - DCA 100

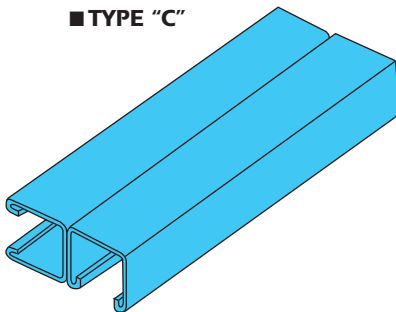
■ TYPE "B"



CATALOG NO.

DH - DCB 100

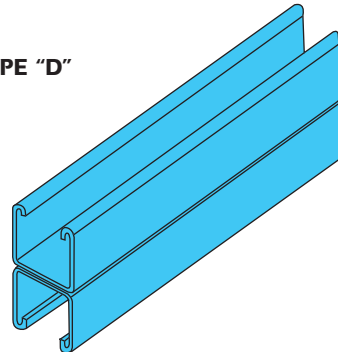
■ TYPE "C"



CATALOG NO.

DH - DCC 100

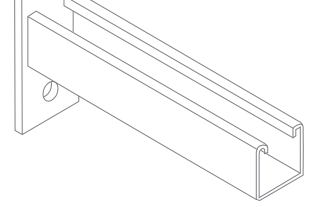
■ TYPE "D"



CATALOG NO.

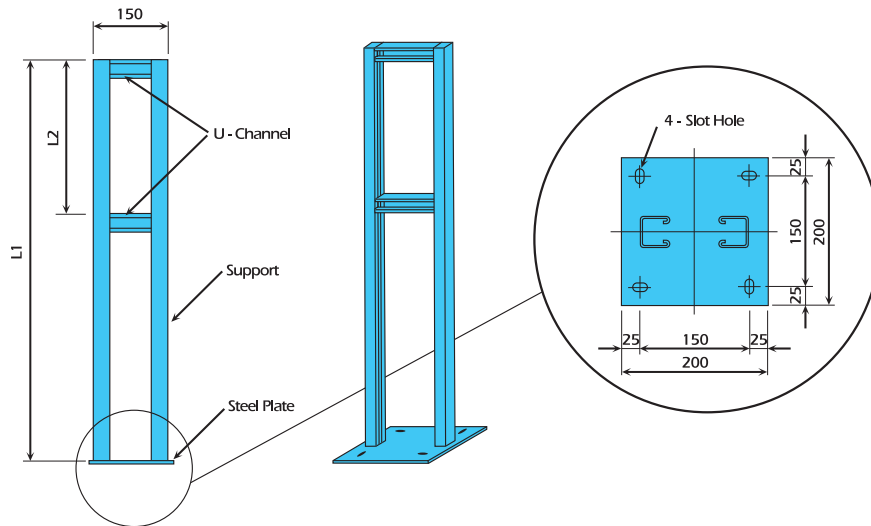
DH - DCD 100

# CABLE TRAY SYSTEM



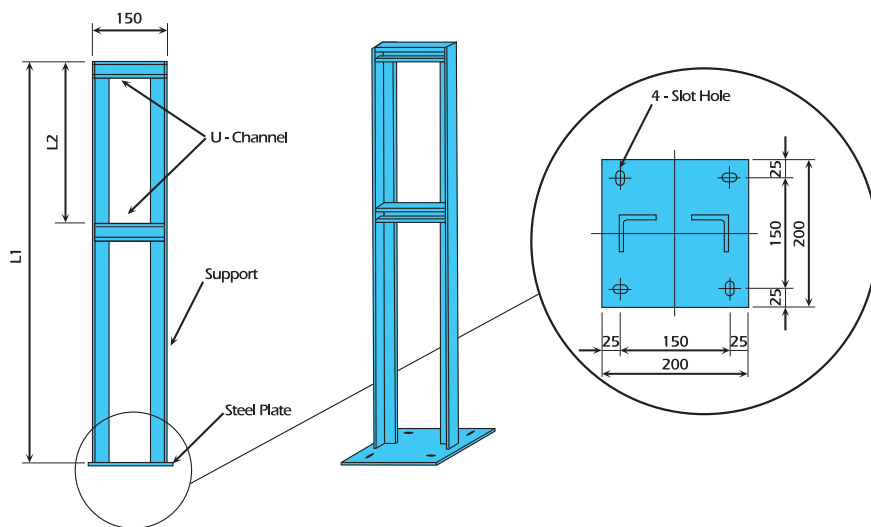
## TRAY SUPPORT SYSTEM & ACCESSORIES SUPPORT

### MOTOR STANCHION - A - TYPE



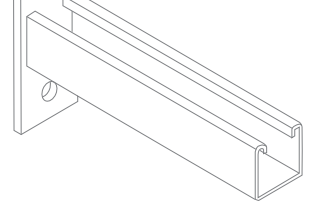
CATALOG NO.	SUPPORT	L1	L2	Steel Plate
DHMS - A 1000	U - CHANNEL	1000	300	200×200×6t
DHMS - A 1200		1200	500	
DHMS - A 1500		1500	700	

### MOTOR STANCHION - B - TYPE



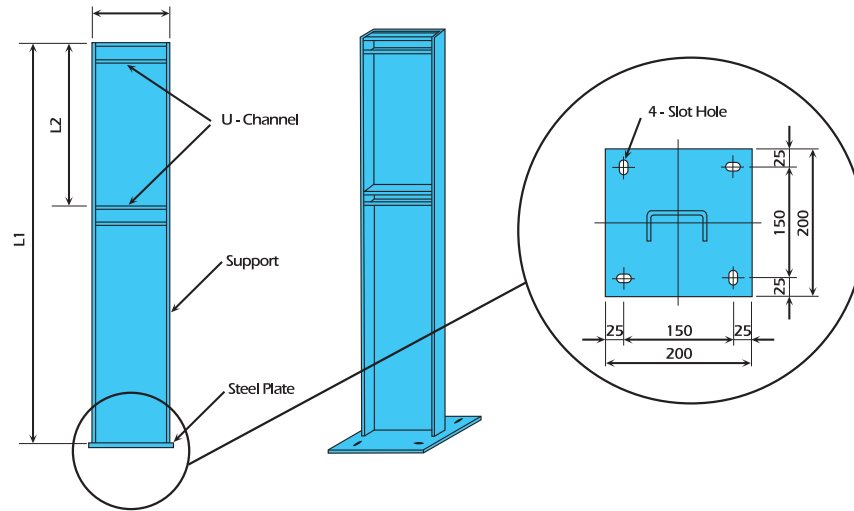
CATALOG NO.	SUPPORT	L1	L2	Steel Plate
DHMS - B 1000	ANGLE	1000	300	200×200×6t
DHMS - B 1200		1200	500	
DHMS - B 1500		1500	700	

# CABLE TRAY SYSTEM



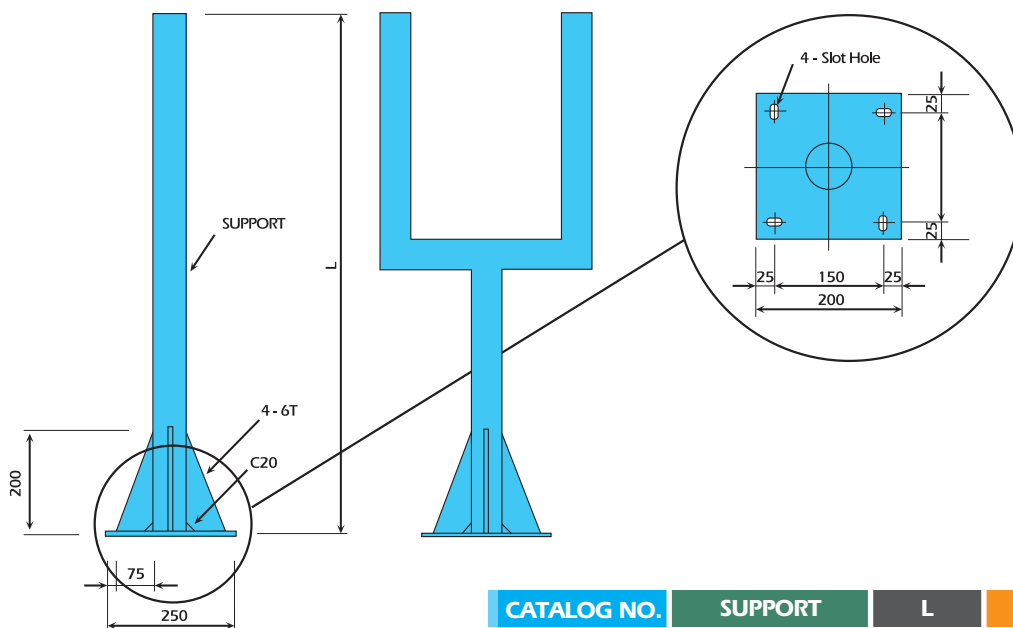
## TRAY SUPPORT SYSTEM & ACCESSORIES SUPPORT

### MOTOR STANCHION - C - TYPE



CATALOG NO.	SUPPORT	L1	L2	Steel Plate
DHMS - C 1000	CHANNEL	1000	300	200×200×6t
DHMS - C 1200		1200	500	
DHMS - C 1500		1500	700	

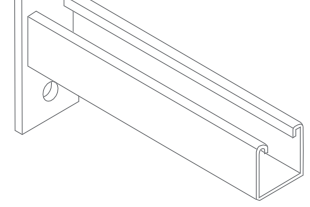
### PIPE STANCHION



CATALOG NO.	SUPPORT	L	Steel Plate
DHPS - 1000	2" - STEEL PIPE	1000	250×250×6t
DHPS - 1500		1500	

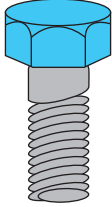


# CABLE TRAY SYSTEM



## TRAY SUPPORT SYSTEM & ACCESSORIES SUPPORT

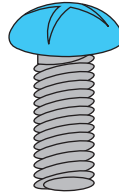
### ■ HEX BOLT



UNIT : mm

CATALOG NO.	THREAD
HH - 0614	M6(1/4")
HH - 1038	M10(3/8")
HH - 1212	M12(1/2")
HH - 1658	M16(5/8")

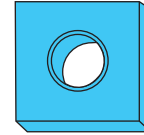
### ■ ROUND BOLT



UNIT : mm

CATALOG NO.	THREAD
RH - 0614	M6(1/4")
RH - 1038	M10(3/8")
RH - 1212	M12(1/2")
RH - 1658	M16(5/8")

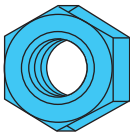
### ■ SQUARE WASHER



UNIT : mm

CATALOG NO.	THREAD
SW - 0614	M6(1/4")
SW - 1038	M10(3/8")
SW - 1212	M12(1/2")
SW - 1658	M16(5/8")

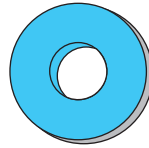
### ■ HEX NUT



UNIT : mm

CATALOG NO.	THREAD
HN - 0614	M6(1/4")
HN - 1038	M10(3/8")
HN - 1212	M12(1/2")
HN - 1658	M16(5/8")

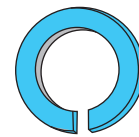
### ■ FLAT WASHER



UNIT : mm

CATALOG NO.	THREAD
FW - 0614	M6(1/4")
FW - 1038	M10(3/8")
FW - 1212	M12(1/2")
FW - 1658	M16(5/8")

### ■ LOCK WASHER



UNIT : mm

CATALOG NO.	THREAD
LW - 0614	M6(1/4")
LW - 1038	M10(3/8")
LW - 1212	M12(1/2")
LW - 1658	M16(5/8")

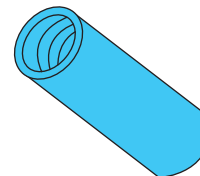
### ■ THREADED ROD



UNIT : mm

CATALOG NO.	THREAD
TR - 0614	M6(1/4")
TR - 1038	M10(3/8")
TR - 1212	M12(1/2")
TR - 1658	M16(5/8")

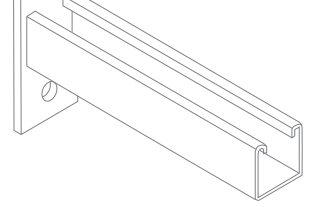
### ■ THREADED ROD COUPLING



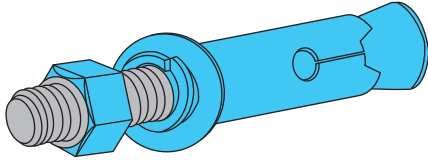
UNIT : mm

CATALOG NO.	THREAD
CN - 0614	M6(1/4")
CN - 1038	M10(3/8")
CN - 1212	M12(1/2")
CN - 1658	M16(5/8")

# CABLE TRAY SYSTEM



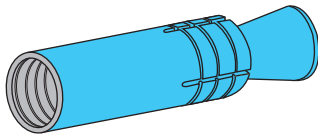
## TRAY SUPPORT SYSTEM & ACCESSORIES SUPPORT



UNIT : mm

CATALOG NO.	THREAD	ANCHOR LENGTH (mm)	TENSILE STRENGTH (kg)
ST - 0614	M6(1/4")	50	1080
ST - 1038	M10(3/8")	70, 100, 120	2100
ST - 1212	M12(1/2")	100, 120, 150	3700
ST - 1658	M16(5/8")	100, 120, 150, 200	4500 - 6000

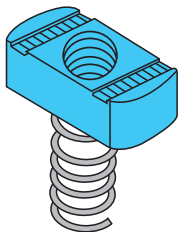
## STRONG ANCHOR



UNIT : mm

CATALOG NO.	THREAD	ANCHOR LENGTH (mm)	TENSILE STRENGTH (kg)
SA - 0614	M6(1/4")	30	900
SA - 1038	M10(3/8")	40	2200
SA - 1212	M12(1/2")	50	3700
SA - 1658	M16(5/8")	60	5100

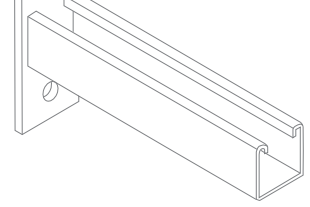
## CHANNEL SPRING NUT



UNIT : mm

CATALOG NO.	THREAD
SN - 0614	M6(1/4")
SN - 1038	M10(3/8")
SN - 1212	M12(1/2")
SN - 1658	M16(5/8")

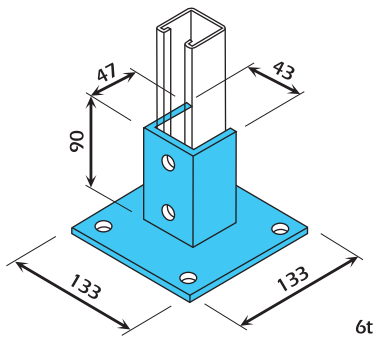
# CABLE TRAY SYSTEM



## TRAY SUPPORT SYSTEM & ACCESSORIES SUPPORT

### CHANNEL SUPPORT

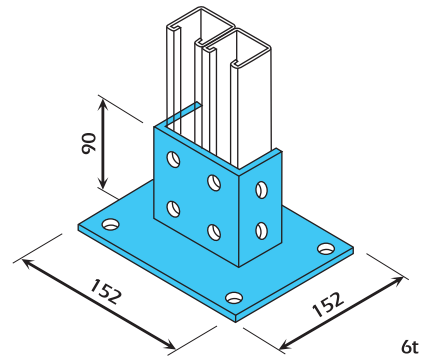
■ POST BASE (SINGLE CHANNEL)



CATALOG NO.

DH - SPB - 5173

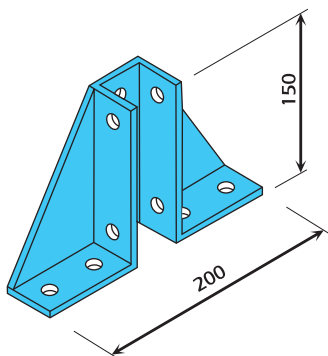
■ POST BASE (DOUBLE CHANNEL)



CATALOG NO.

DH - DPB - 5174

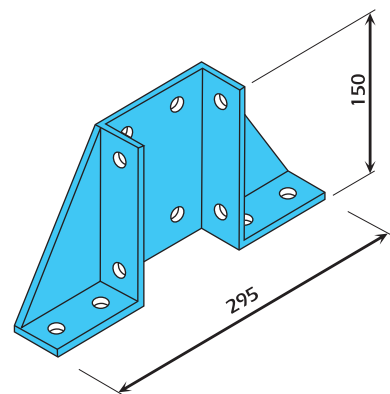
■ GUSSETED BRACKET (SINGLE CHANNEL)



CATALOG NO.

DH - SGB - 5175

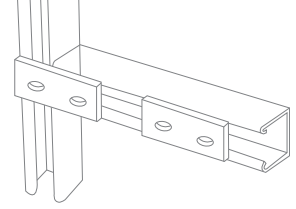
■ GUSSETED BRACKET (DOUBLE CHANNEL)



CATALOG NO.

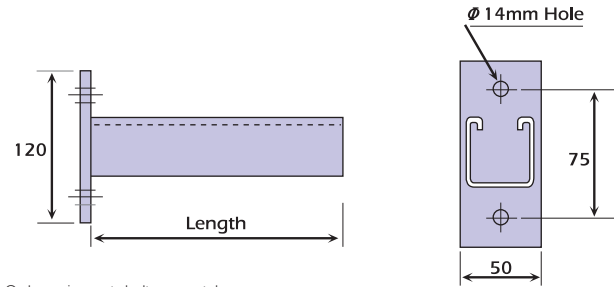
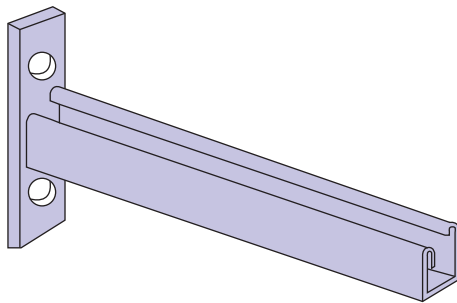
DH - SGB - 5176

# CABLE TRAY SYSTEM



## CHANNEL SUPPORT SYSTEM

### 2-HOLE SINGLE BRACKET

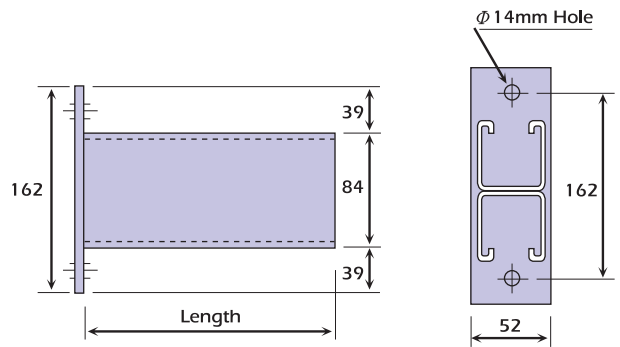
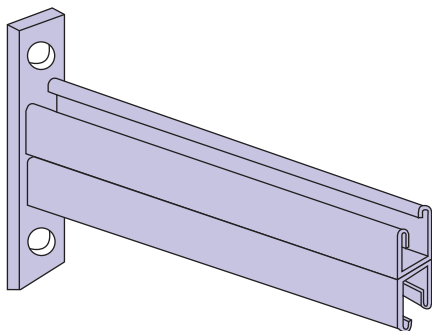


Order spring nuts bolts separately

CATALOG NO.	LENGTH(mm)	UNIFORM LOAD (kg)
DHSB2 - 15	150	810
DHSB2 - 30	300	450
DHSB2 - 45	450	320
DHSB2 - 60	600	220

Check column strength for maximum loading

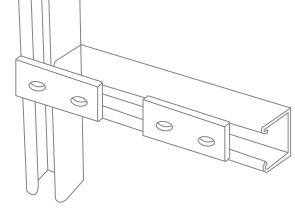
### DOUBLE BRACKET



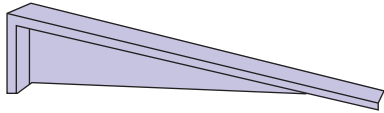
Order spring nuts bolts separately

CATALOG NO.	LENGTH(mm)	UNIFORM LOAD (kg)
DHDB - 30	300	900
DHDB - 45	450	540
DHDB - 60	600	450
DHDB - 75	750	360
DHDB - 90	900	300

Order spring nuts bolts separately Check column strength for maximum loading SAFETY FACTOR OF 2.5

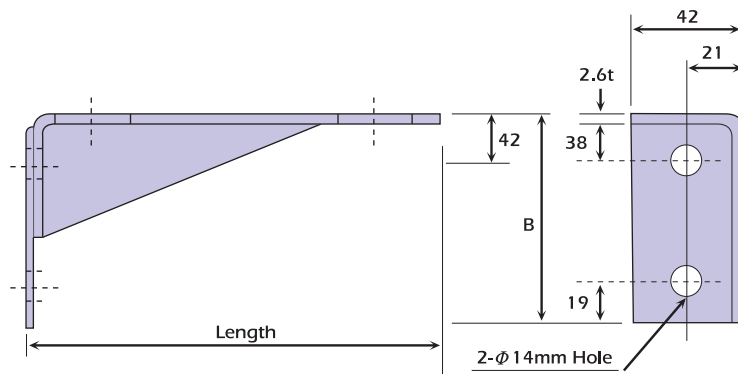


## CHANNEL SUPPORT SYSTEM ANGLE PLATE BRACKET

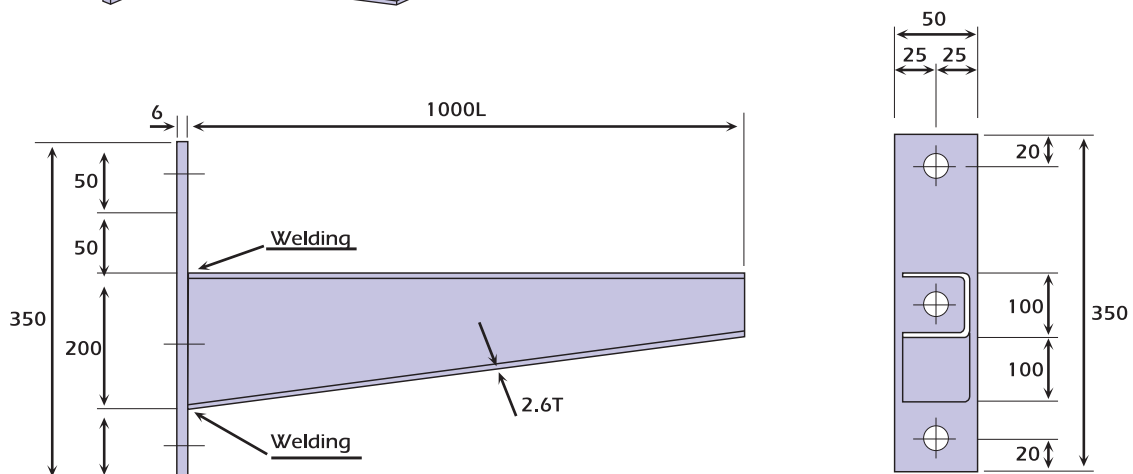
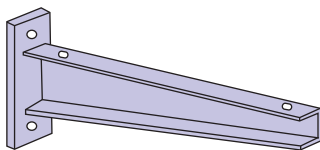


CATALOG NO.	L	B
AB - 150	150	75
AB - 200	200	75
AB - 300	300	90
AB - 450	450	125
AB - 600	600	160
AB - 750	750	200
AB - 900	900	200

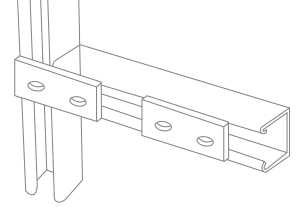
Order spring nuts bolts separately



## HEAVY DUTY BRACKET

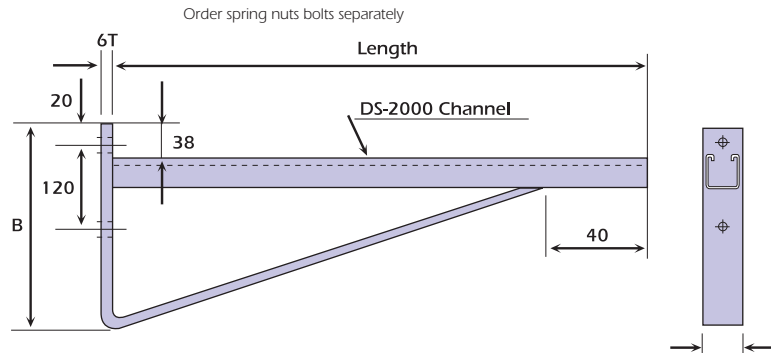
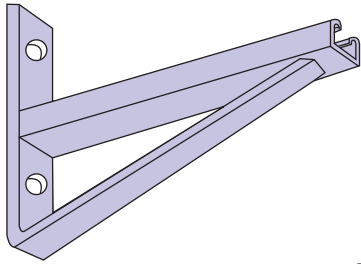


# CABLE TRAY SYSTEM

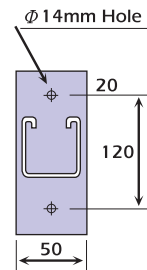
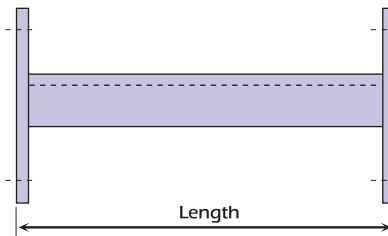
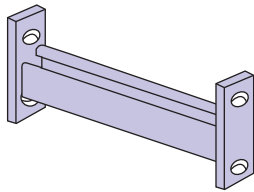


## CHANNEL SUPPORT SYSTEM REINFORCING BRACKET

CATALOG NO.	L	B
RB - 170	170	220
RB - 220	220	220
RB - 320	320	220
RB - 470	470	220
RB - 620	620	220
RB - 770	770	280
RB - 920	920	280

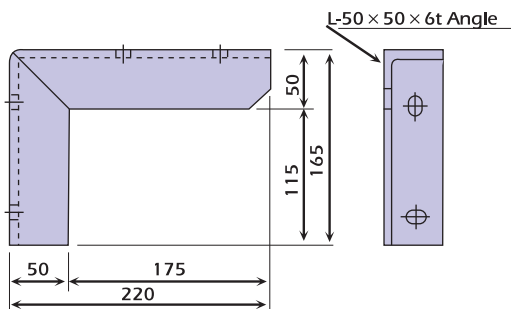


## 2-PLATE SINGLE CHANNEL BRACKET

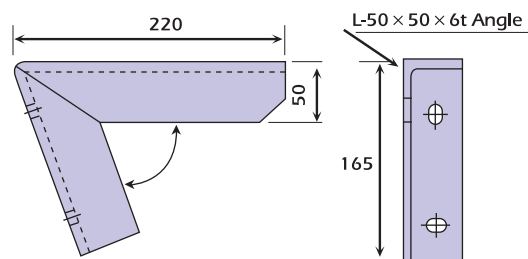


CATALOG NO.	L
2P - SCB - 300	300
2P - SCB - 350	350
2P - SCB - 450	450
2P - SCB - 600	600
2P - SCB - 750	750
2P - SCB - 900	900
2P - SCB - 1050	1050

## ANGLE BRACKET

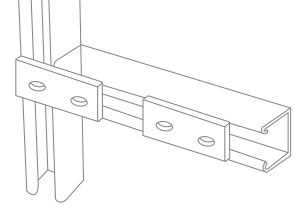


CATALOG NO.	9022
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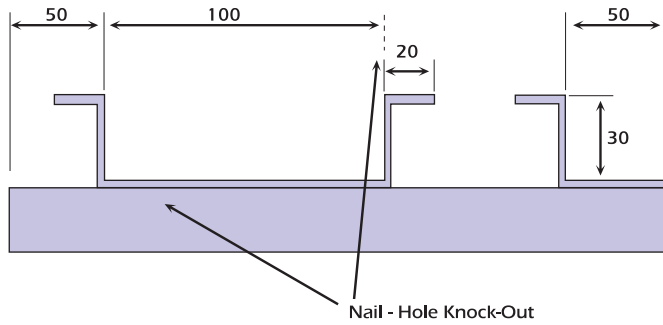
CATALOG NO.	7022
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# CABLE TRAY SYSTEM



CHANNEL SUPPORT SYSTEM

## CHANNEL SUPPORT SYSTEM CONCRETE INSERT (A - TYPE)

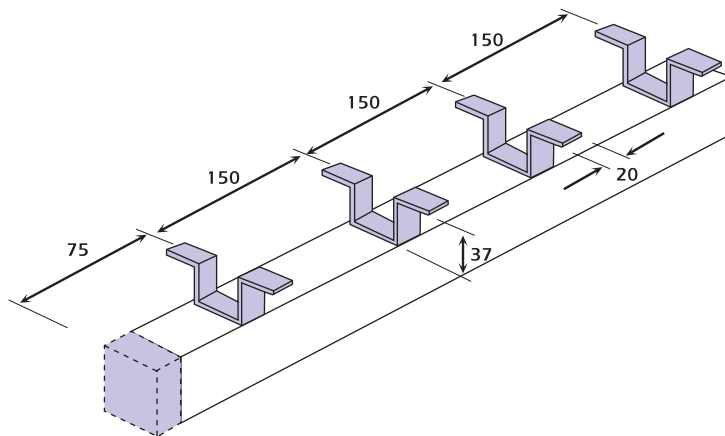


DAE - HAN Concrete Inserts are designed to be used ceiling, walls or floors.

Other lengths available on request  
Hot Dip Galvanized after fabrication.

CATALOG NO.	L
COIN - A1000	1000
COIN - A2000	2000
COIN - A3000	3000

## CONCRETE INSERT (B - TYPE)

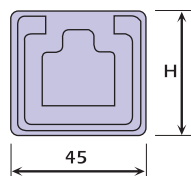


DAE - HAN Concrete Inserts are designed to be used ceiling, walls or floors.

Other lengths available on request  
Hot Dip Galvanized after fabrication.

CATALOG NO.	L
COIN - B1000	1000
COIN - B2000	2000
COIN - B3000	3000

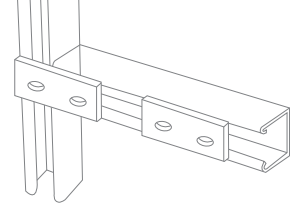
## CHANNEL END CAP



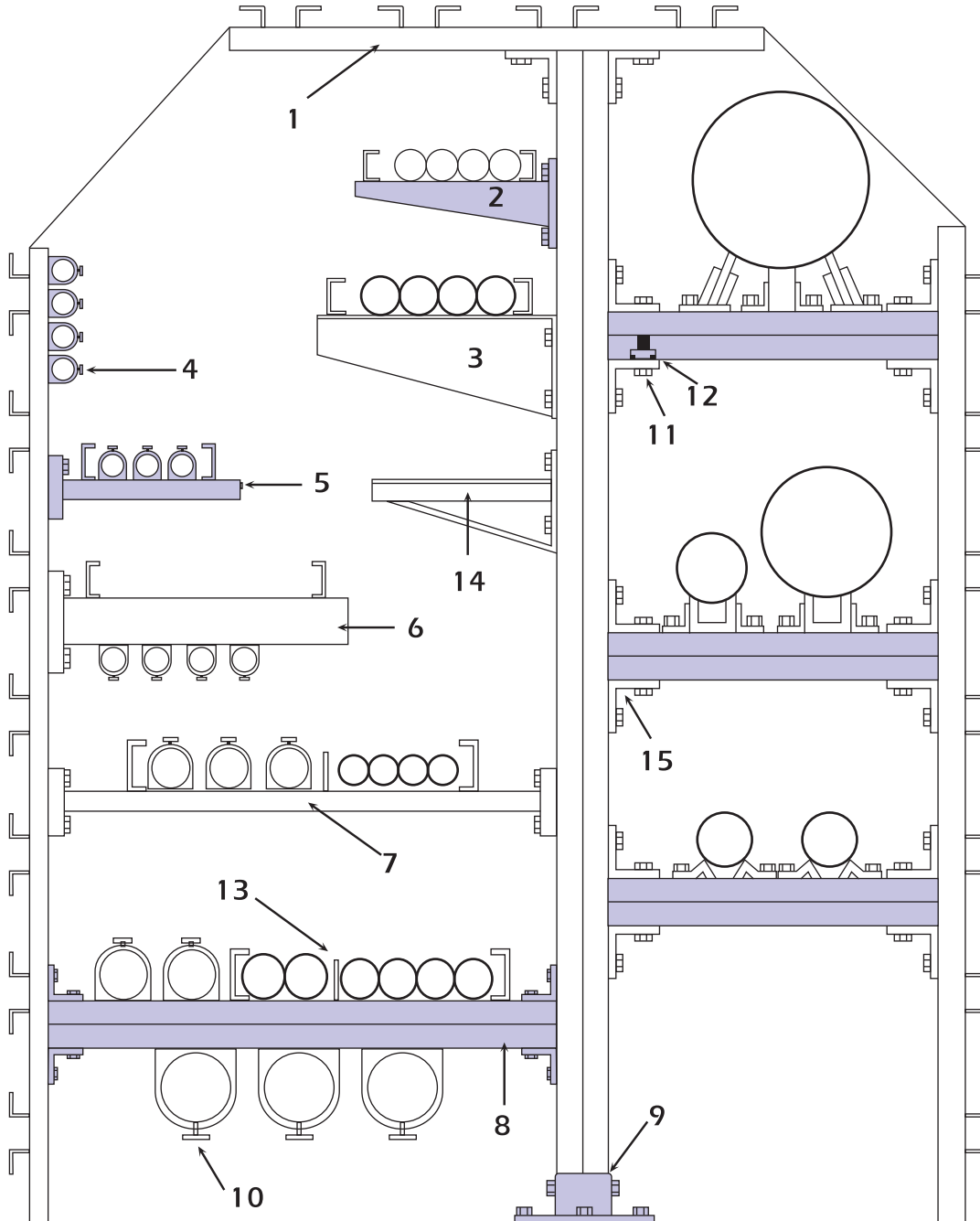
P.V.C

CATALOG NO.	L
EC - 1000	1000
EC - 2000	2000
EC - 3000	3000

# CABLE TRAY SYSTEM

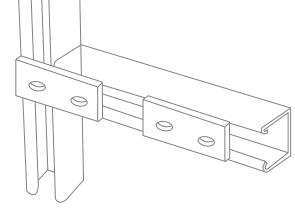


## CHANNEL SUPPORT SYSTEM

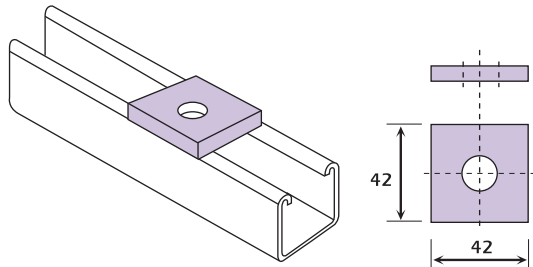


- |                               |   |                                     |
|-------------------------------|---|-------------------------------------|
| <b>1. Concrete</b>            | <b>7. 2-Plate Single Channel Single</b> | <b>12. Spring Nut</b>               |
| <b>2. Angle Bracket</b>       | <b>8. Double Channel</b>                | <b>13. Separator</b>                |
| <b>3. Gusset Type Bracket</b> | <b>9. Double Post Base</b>              | <b>14. Reinforcing Bracket</b>      |
| <b>4. P-Type Pipe Clamp</b>   | <b>10. M-Type Pipe Clamp</b>            | <b>15. 2 - Hole Angle Connector</b> |
| <b>5. Single Bracket</b>      | <b>11. Hex Head Bolt</b>                |                                     |
| <b>6. Double Bracket</b>      |   |                                     |



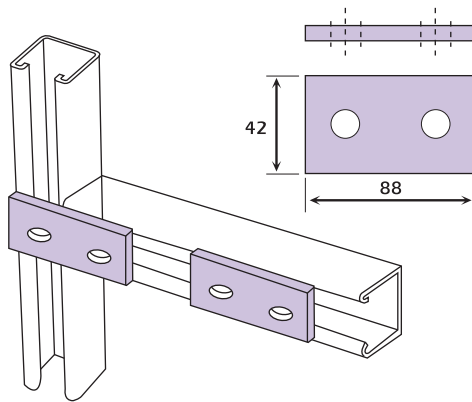


## CHANNEL SUPPORT SYSTEM SQUARE WASHER



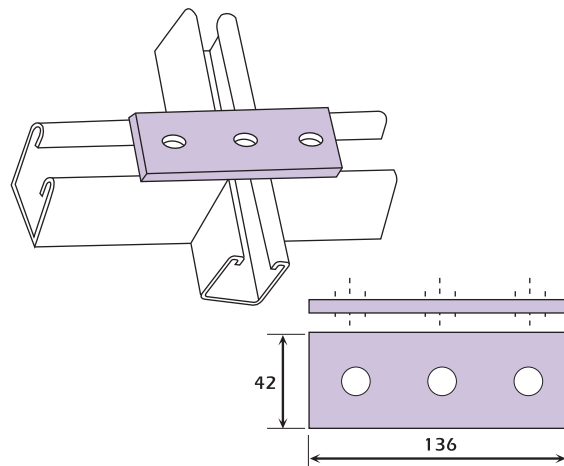
CATALOG NO.	Bolt Size	Hole Size
SQ - 5152	1/4"	7.1
SQ - 5153	5/16"	9.5
SQ - 5154	3/8"	11.0
SQ - 5155	1/2"	14.2
SQ - 5156	5/8"	17.4

## 2-HOLE SPLICE PLATE



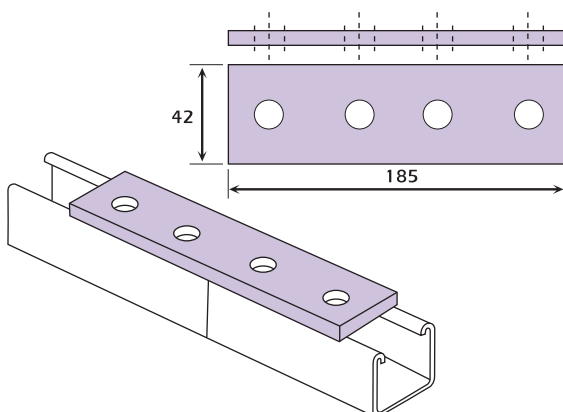
CATALOG NO. HSP - 5157

## 3-HOLE SPLICE PLATE



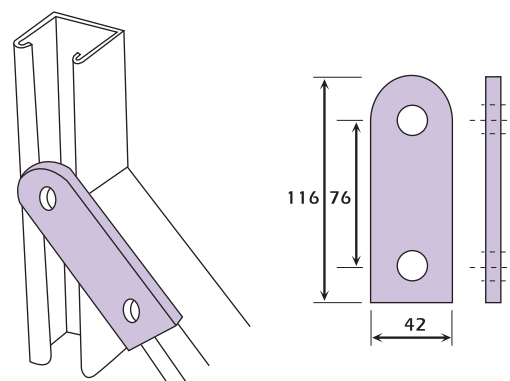
CATALOG NO. HSP - 5158

## 4-HOLE SPLICE PLATE



CATALOG NO. HSP - 5159

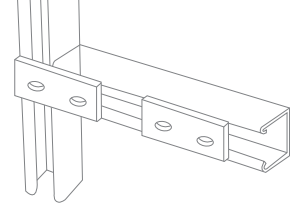
## 2-HOLE SWIVEL PLATE



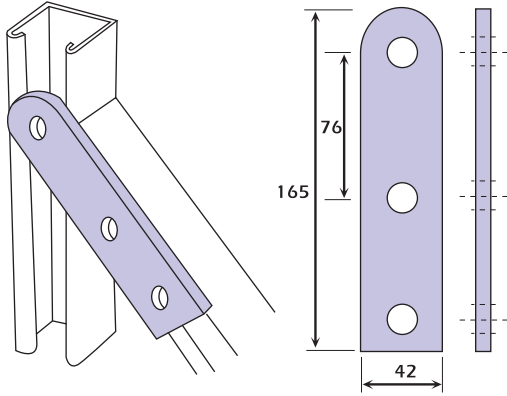
CATALOG NO. HSP - 5160

Unless other wise noted, all fittings will have the following dimensions :  
 WIDTH : 42mm, THICKNESS : 6mm, HOLE DIAMETER : 14mm,  
 HOLE SPACING : 20mm from end, 48mm on center  
 STANDARD FINISHES : Hot Dip Galvanized

# CABLE TRAY SYSTEM

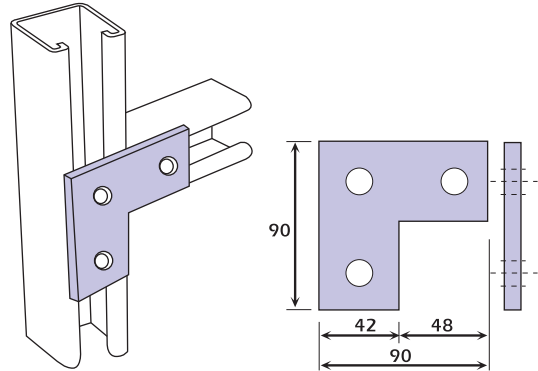


## 3-HOLE SWIVEL PLATE



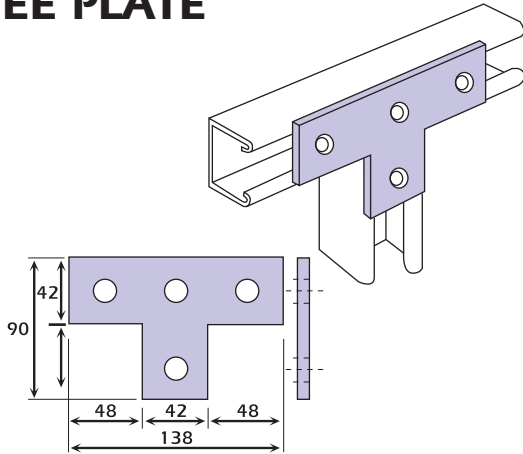
CATALOG NO. HSP - 5161

## FLAT ANGLE PLATE



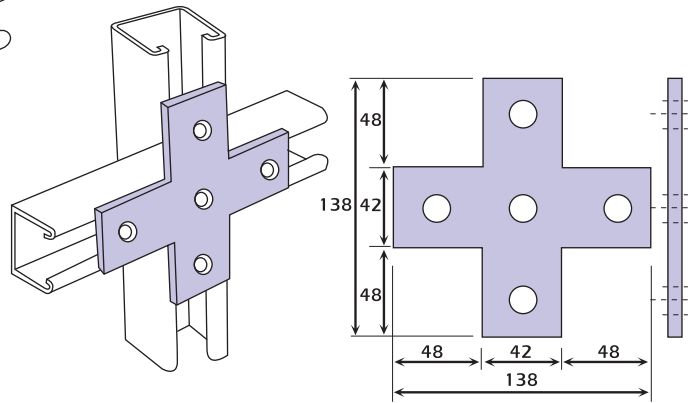
CATALOG NO. HSP - 5162

## TEE PLATE



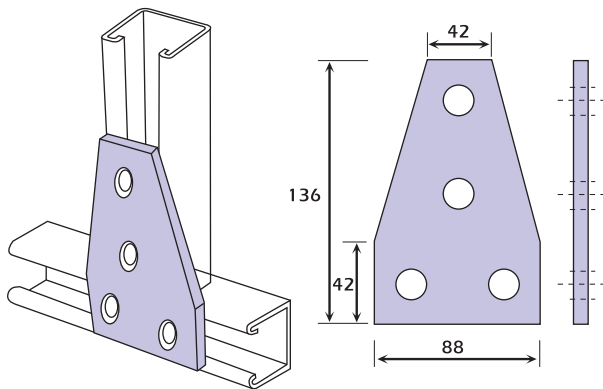
CATALOG NO. HSP - 5163

## CROSS PLATE



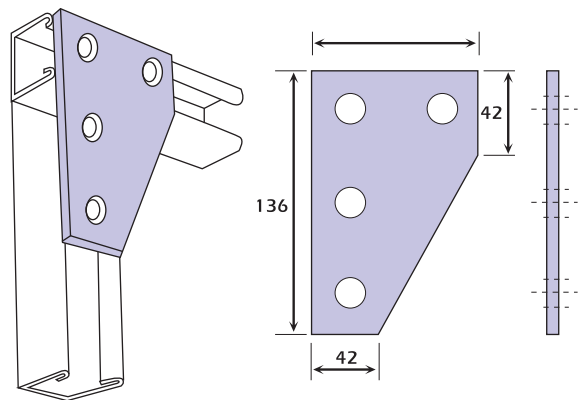
CATALOG NO. HSP - 5164

## SYMMETRICAL 4-HOLE PLATE



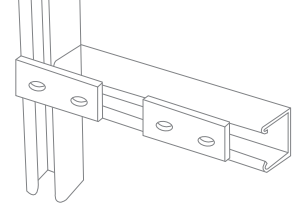
CATALOG NO. HSP - 5165

## 4-HOLE CORNER PLATE

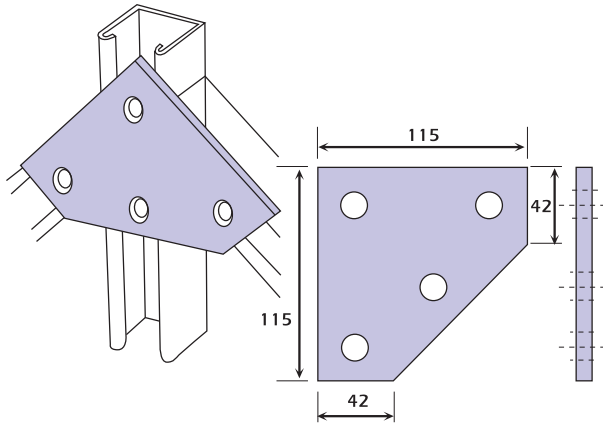


CATALOG NO. HSP - 5166

Unless other wise noted, all fittings will have the following dimensions :  
 WIDTH : 42mm, THICKNESS : 6mm, HOLE DIAMETER : 14mm,  
 HOLE SPACING : 20mm from end, 48mm on center  
 STANDARD FINISHES : Hot Dip Galvanized



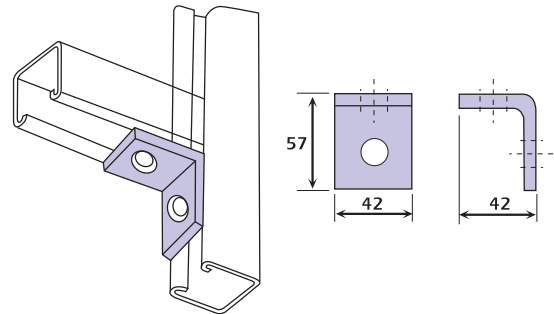
## 3-HOLE SWIVEL PLATE



CATALOG NO.

HSP - 5167

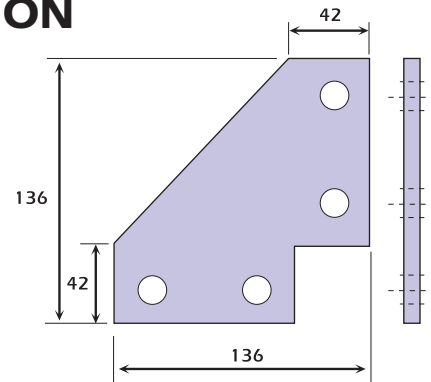
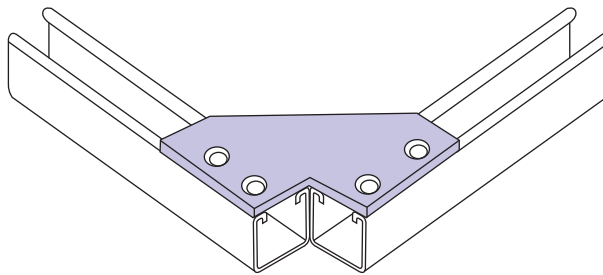
## 2-HOLE ANGLE PLATE



CATALOG NO.

HSP - 5168

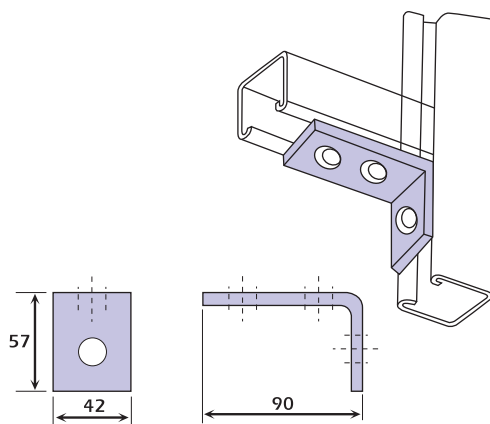
## 4-HOLE CORNER OUT CONNECTION



CATALOG NO.

HSP - 5169

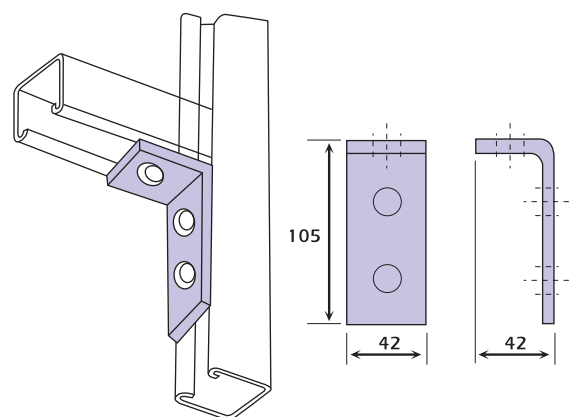
## 3-HOLE ANGLE FITTING



CATALOG NO.

HSP - 5170

## 3-HOLE CORNER CONNECTION

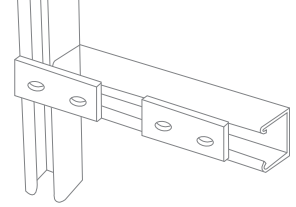


CATALOG NO.

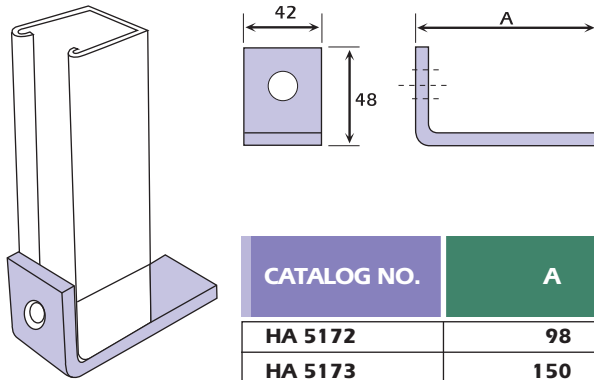
HSP - 5171

Unless other wise noted, all fittings will have the following dimensions :  
 WIDTH : 42mm, THICKNESS : 6mm, HOLE DIAMETER : 14mm,  
 HOLE SPACING : 20mm from end, 48mm on center  
 STANDARD FINISHES : Hot Dip Galvanized

# CABLE TRAY SYSTEM

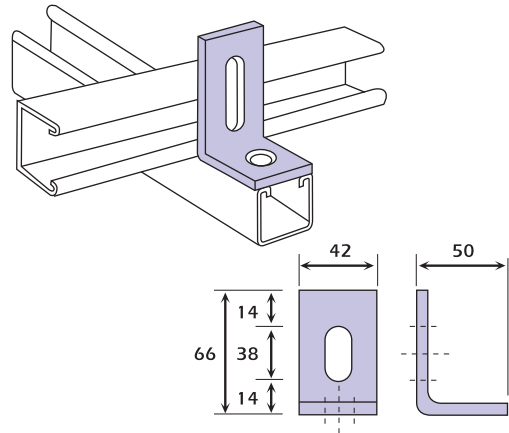


## 1-HOLE ANGLE



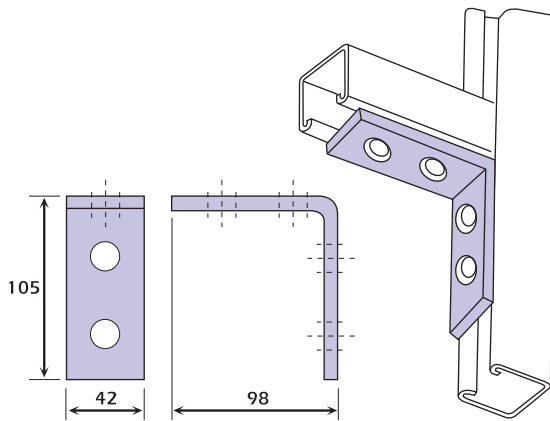
CATALOG NO.	A
HA 5172	98
HA 5173	150
HA 5174	200
HA 5175	250

## 2-HOLE ADJUSTMENT ANGLE



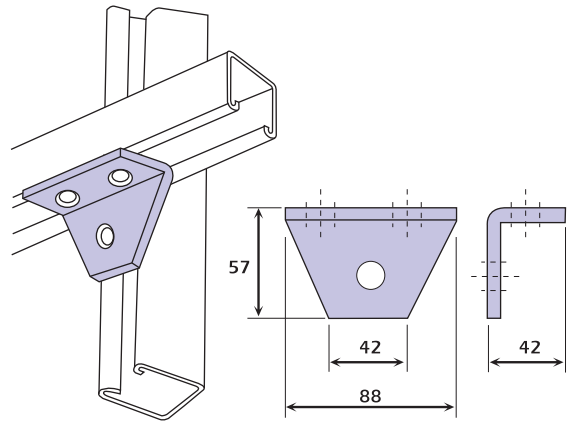
CATALOG NO.	HSP - 5176
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## 4-HOLE ANGLE FITTING



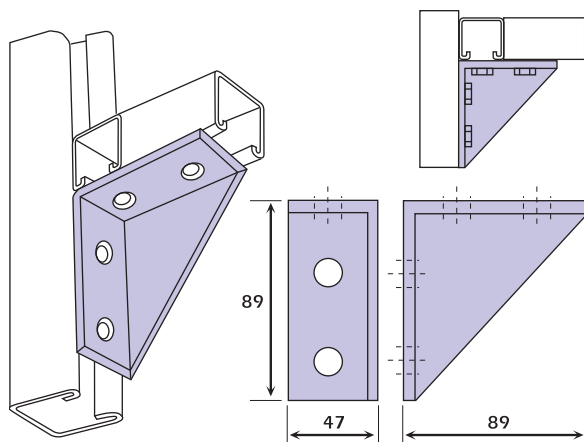
CATALOG NO.	HSP - 5177
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## 3-HOLE CORNER JOINT



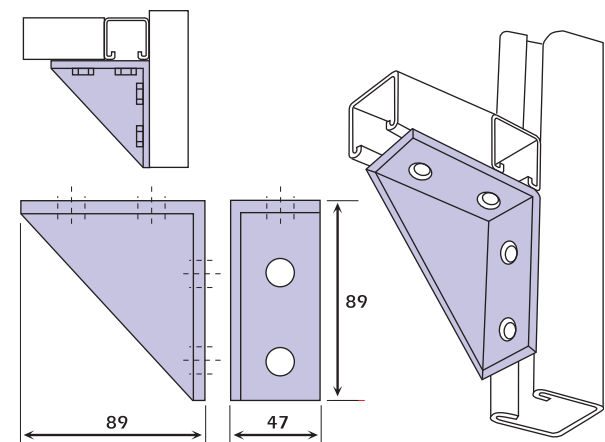
CATALOG NO.	HSP - 5178
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## 4-HOLE SELF BRACKET (Right)



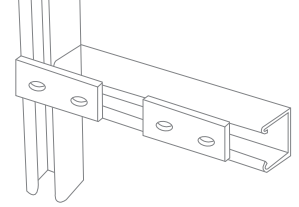
CATALOG NO.	HSP - 5179
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## 4-HOLE SELF BRACKET (Left)

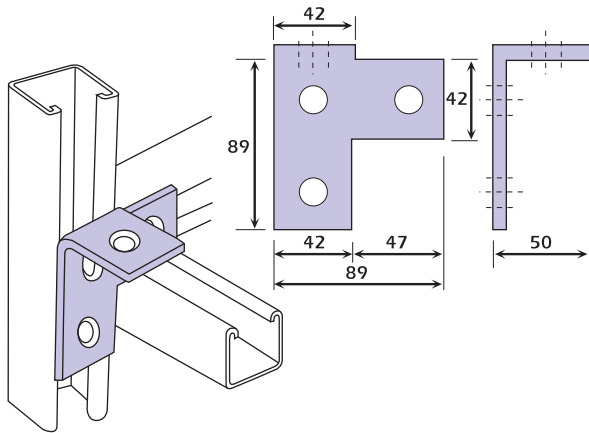


CATALOG NO.	HSP - 5180
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Unless other wise noted, all fittings will have the following dimensions :  
 WIDTH : 42mm, THICKNESS : 6mm, HOLE DIAMETER : 14mm,  
 HOLE SPACING : 20mm from end, 48mm on center  
 STANDARD FINISHES : Hot Dip Galvanized

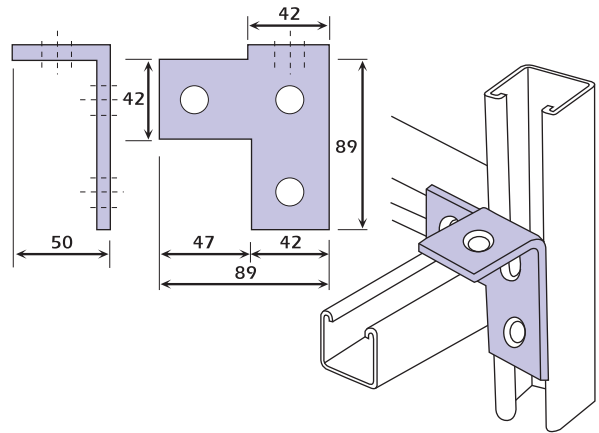


## ANGLE TEE (Right)



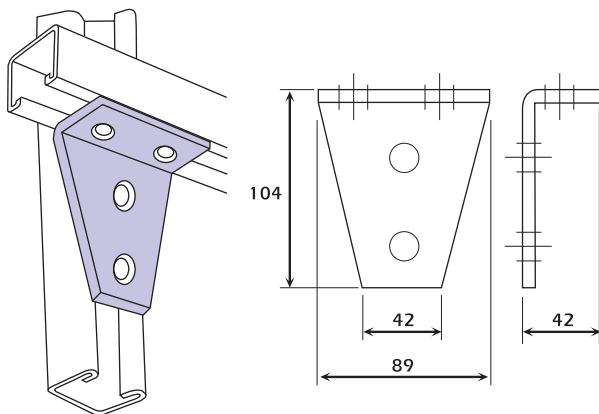
CATALOG NO. HSP - 5181

## ANGLE TEE (Left)



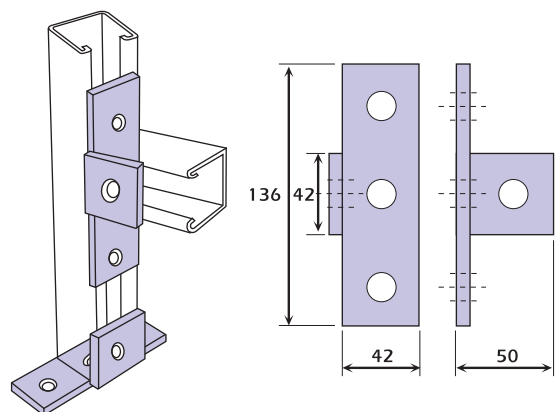
CATALOG NO. HSP - 5182

## 4-HOLE CORNER JOINT



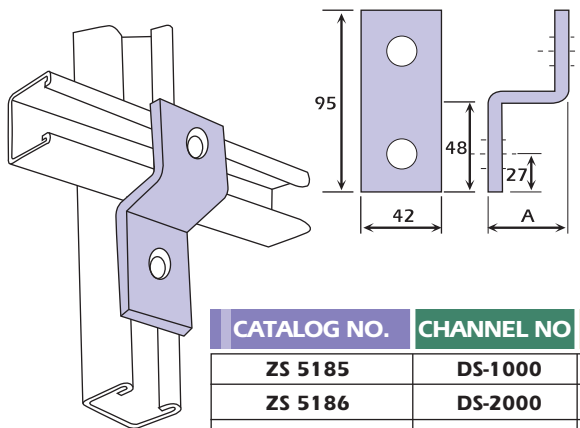
CATALOG NO. HSP - 5183

## 90° ANGLE TEE



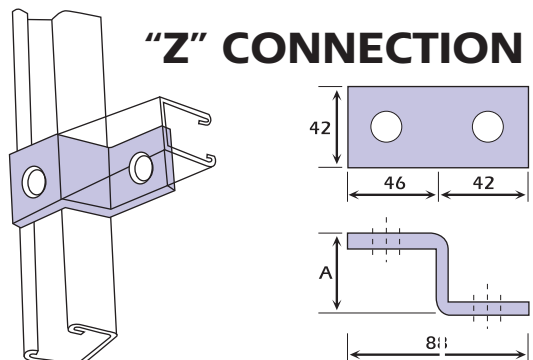
CATALOG NO. HSP - 5184

## "Z" SUPPORT



CATALOG NO.	CHANNEL NO	A
ZS 5185	DS-1000	25
ZS 5186	DS-2000	42
ZS 5187	DS-3000	62

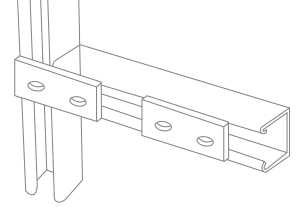
## "Z" CONNECTION



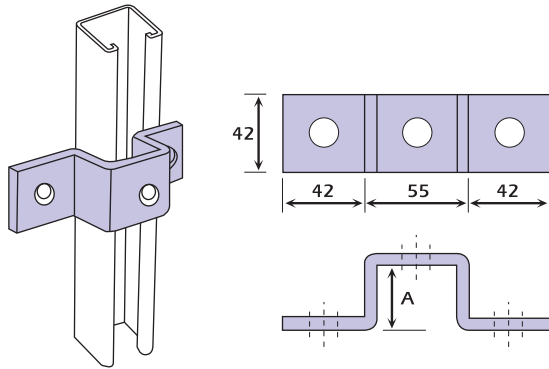
CATALOG NO.	CHANNEL NO	A
ZS 5188	DS-1000	38
ZS 5189	DS-2000	54
ZS 5190	DS-3000	74

Unless other wise noted, all fittings will have the following dimensions :  
 WIDTH : 42mm, THICKNESS : 6mm, HOLE DIAMETER : 14mm,  
 HOLE SPACING : 20mm from end, 48mm on center  
 STANDARD FINISHES : Hot Dip Galvanized

# CABLE TRAY SYSTEM

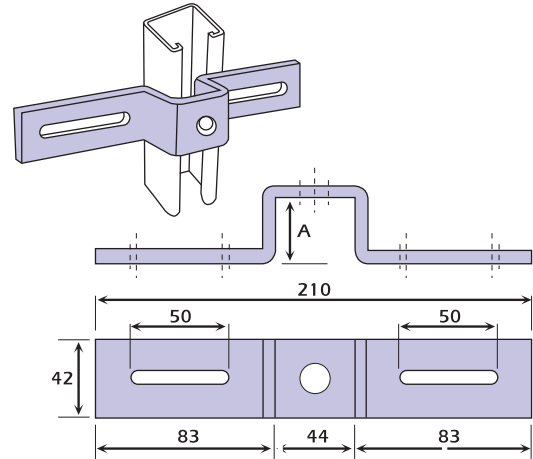


## "U" SUPPORT



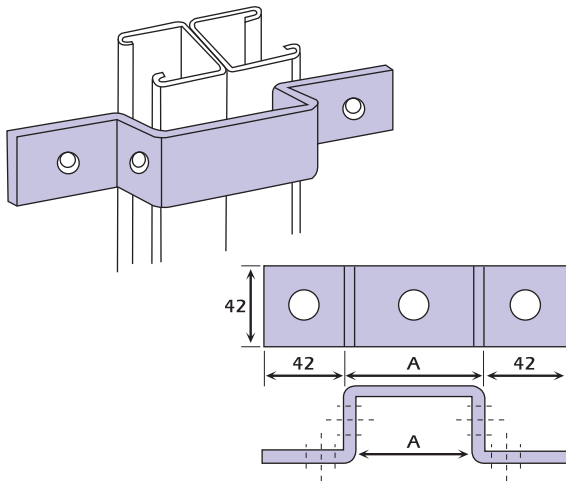
CATALOG NO.	CHANNEL NO	A
U 5191	DH25S	25
U 5192	DH40S	42
U 5193	DH50D	50
U 5194	DH80D	84

## "U" SUPPORT



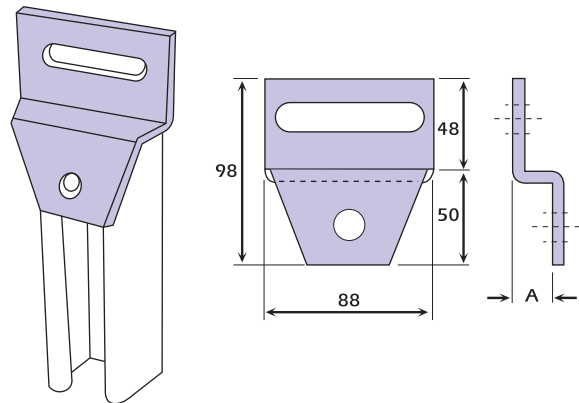
CATALOG NO.	CHANNEL NO	A
U 5195	DH25S	25
U 5196	DH40S	42
U 5197	DH25D	50
U 5198	DH40D	84

## "U" SUPPORT



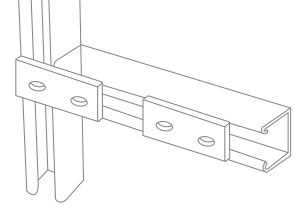
CATALOG NO.	CHANNEL NO	A
U 5203	DH25S	38
U 5204	DH40S	97

## "Z" SUPPORT

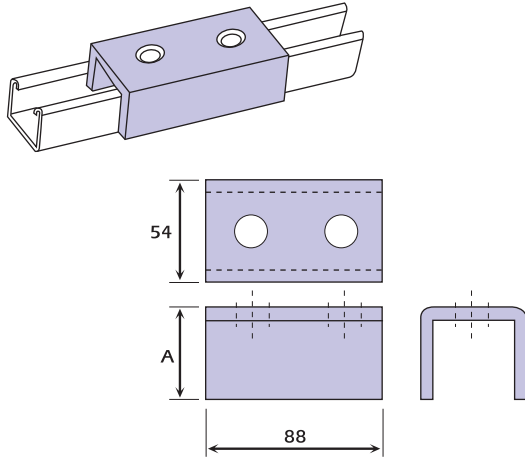


CATALOG NO.	CHANNEL NO	A
U 5205	DH25S	25
U 5206	DH40S	42

Unless other wise noted, all fittings will have the following dimensions :  
 WIDTH : 42mm, THICKNESS : 6mm, HOLE DIAMETER : 14mm,  
 HOLE SPACING : 20mm from end, 48mm on center  
 STANDARD FINISHES : Hot Dip Galvanized

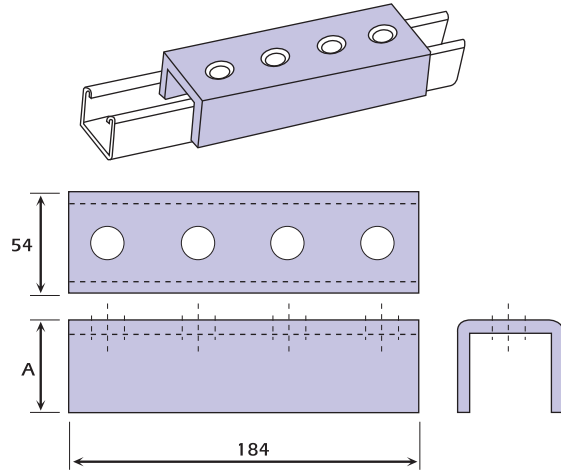


## 2-HOLE SPLICE PLATE



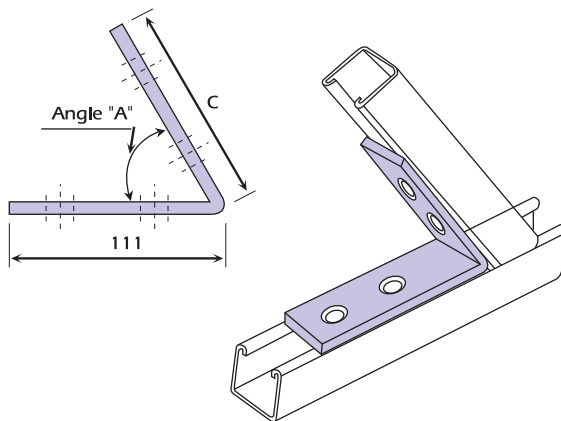
CATALOG NO.	CHANNEL NO	A
HSP 5209	DH25S	25
HSP 5210	DH40S	42

## 4-HOLE SPLICE PLATE



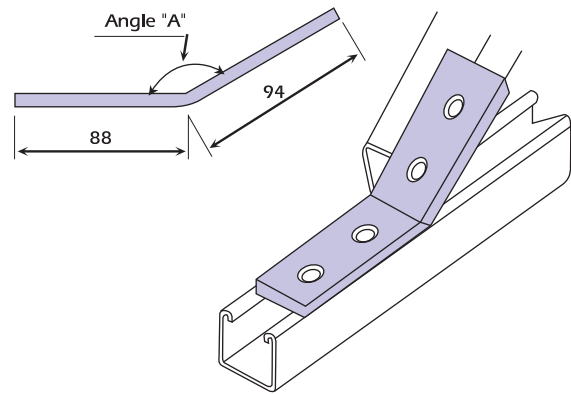
CATALOG NO.	CHANNEL NO	A
HSP 5211	DH25S	25
HSP 5212	DH40S	42

## 4-HOLE OPEN ANGLE



CATALOG NO.	ANGLE "A"	A
HOA 5215	15°	121
HOA 5216	30°	123
HOA 5217	45°	125
HOA 5218	60°	127
HOA 5219	75°	129

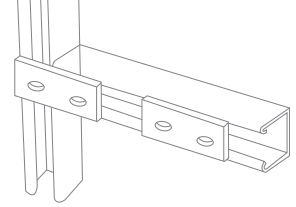
## 4-HOLE CLOSE ANGLE



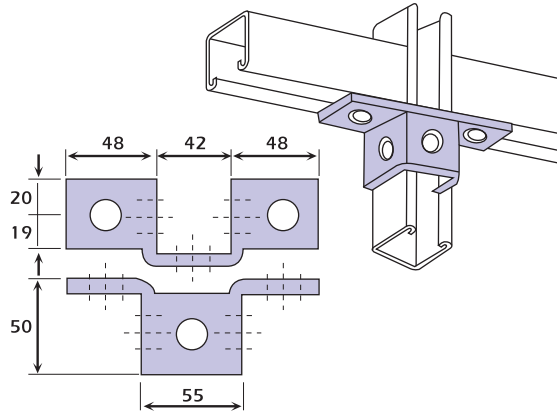
CATALOG NO.	ANGLE "A"
HOA 5220	15°
HOA 5221	30°
HOA 5222	45°
HOA 5223	60°
HOA 5224	75°

Unless other wise noted, all fittings will have the following dimensions :  
 WIDTH : 42mm, THICKNESS : 6mm, HOLE DIAMETER : 14mm,  
 HOLE SPACING : 20mm from end, 48mm on center  
 STANDARD FINISHES : Hot Dip Galvanized

# CABLE TRAY SYSTEM



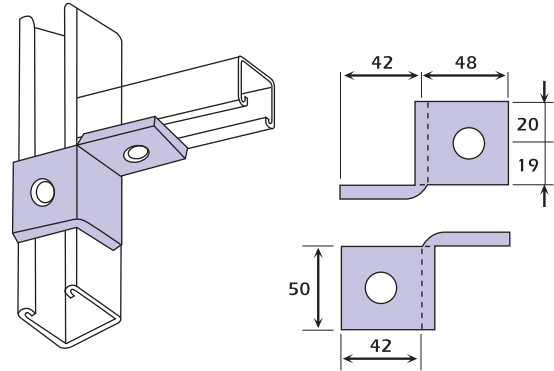
## 5-HOLE 2 ANGLE CLEVIS



CATALOG NO.

HAC - 5225

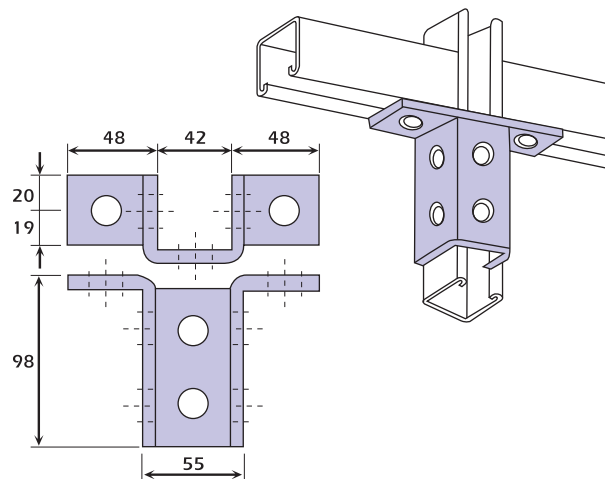
## 2-HOLE SINGLE CORNER



CATALOG NO.

HAC - 5226

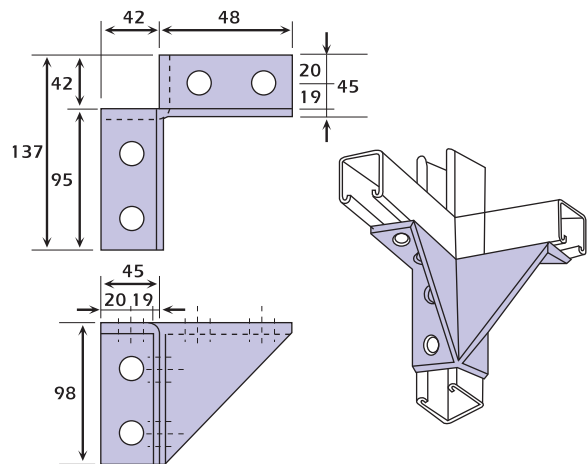
## 8-HOLE DOUBLE GUSSET



CATALOG NO.

HDG - 5227

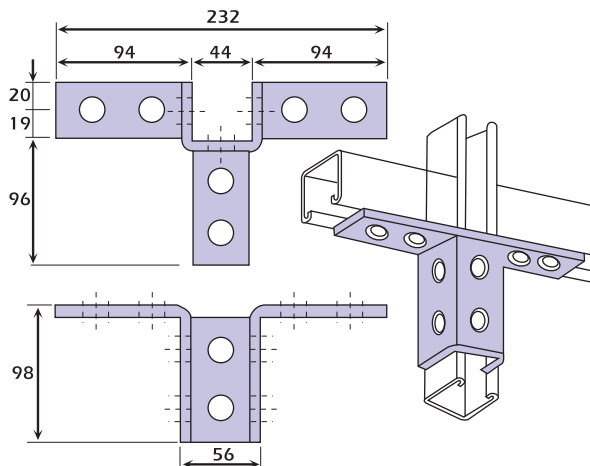
## 8-HOLE ANGLE CLEVIS



CATALOG NO.

HAC - 5228

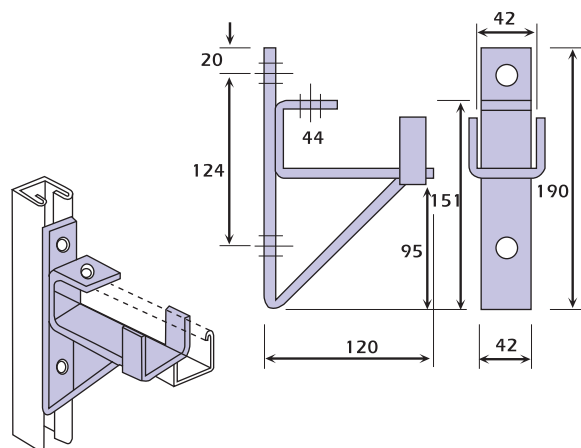
## 10-HOLE DOUBLE GUSSET



CATALOG NO.

HDG - 5229

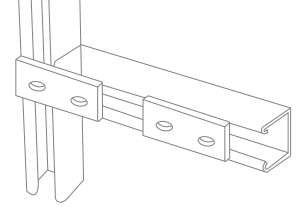
## BRACKET BRACE



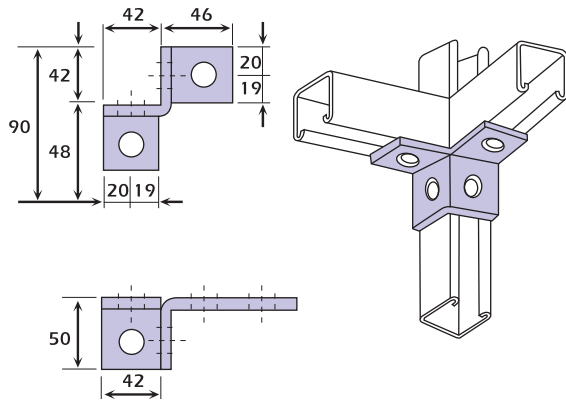
CATALOG NO.

BB - 5230





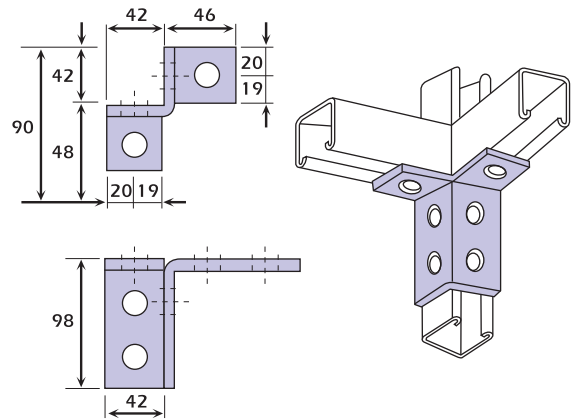
## 4-HOLE DOUBLE CORNER



CATALOG NO.

HDC - 5231

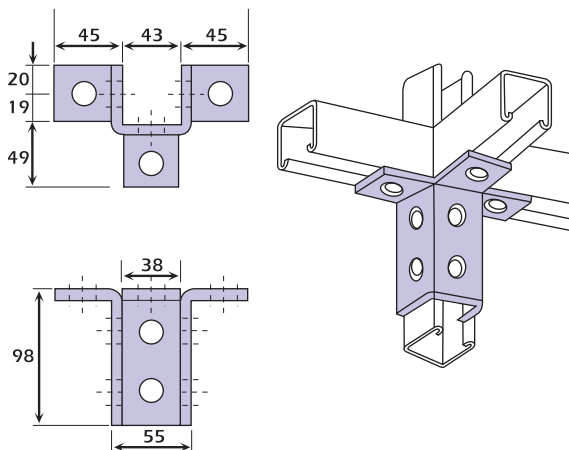
## 6-HOLE DOUBLE CORNER



CATALOG NO.

HDC - 5232

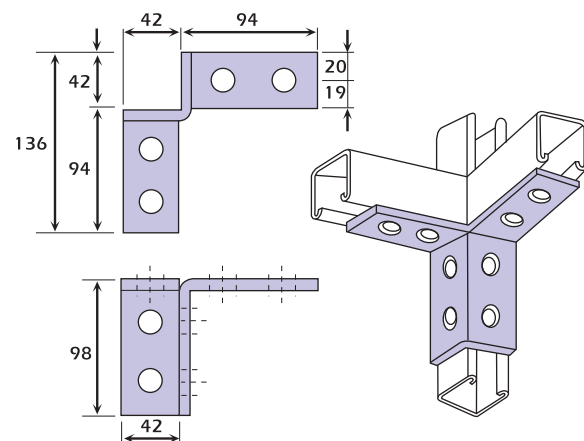
## 9-HOLE 3 ANGLE CLEVIS



CATALOG NO.

HAC - 5233

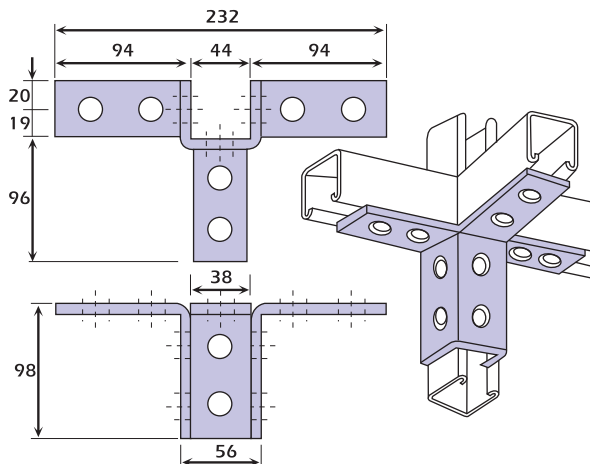
## 8-HOLE DOUBLE CORNER



CATALOG NO.

HDC - 5234

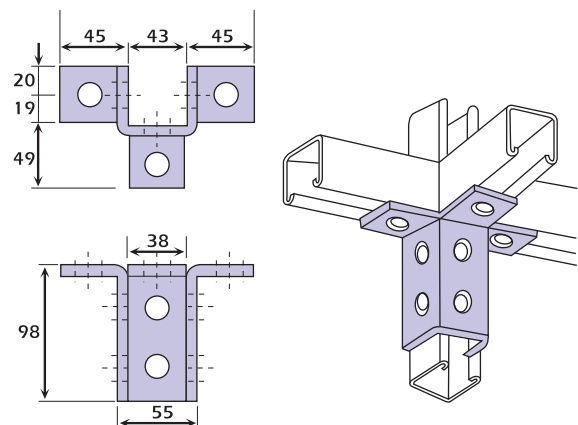
## 12-HOLE 3 ANGLE CLEVIS



CATALOG NO.

HAC - 5233

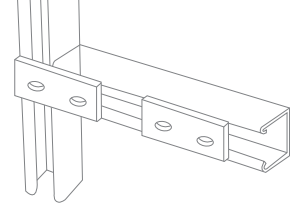
## 9-HOLE 3 ANGLE CLEVIS



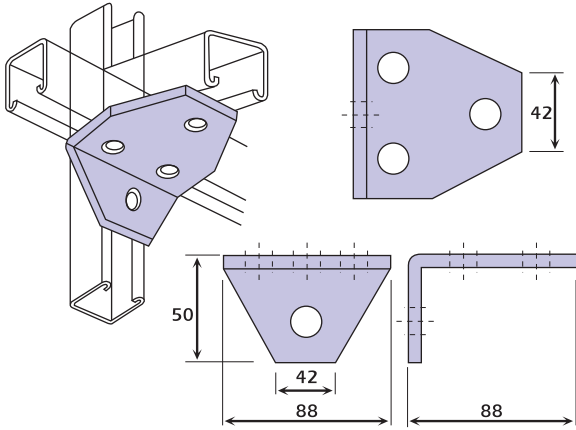
CATALOG NO.

HDC - 5234

# CABLE TRAY SYSTEM

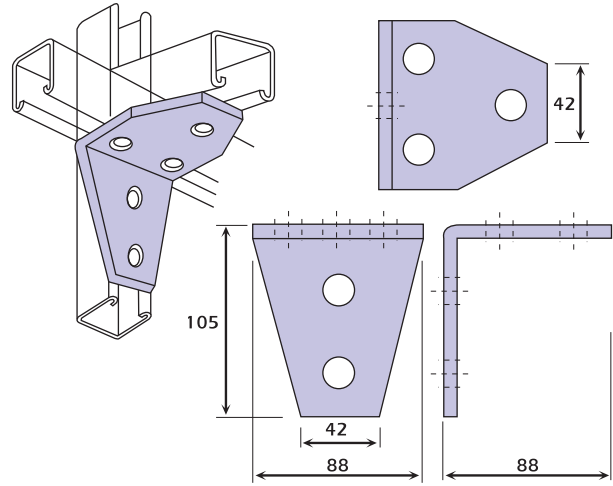


## 4-HOLE SHELF JOINT



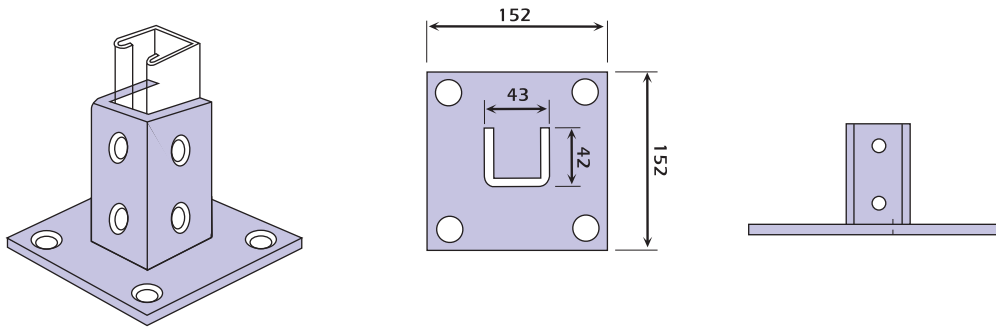
CATALOG NO. **HSJ - 5237**

## 5-HOLE SHELF JOINT



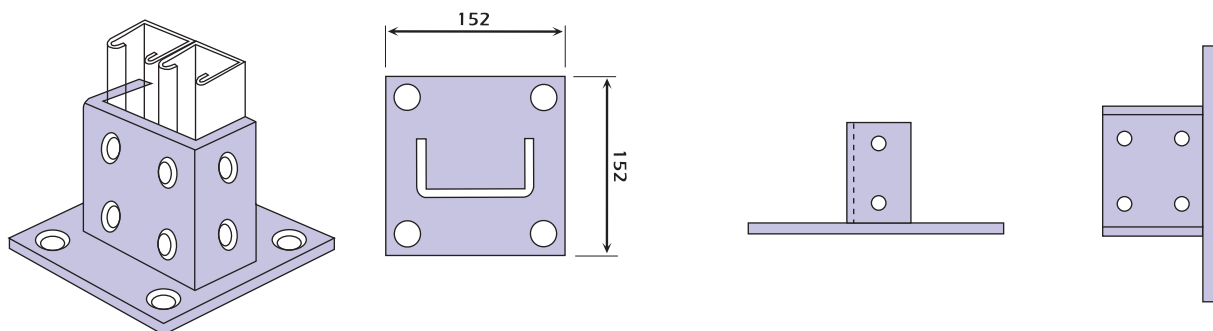
CATALOG NO. **HSJ - 5238**

## SINGLE POST BASE



CATALOG NO. **SPB - 5239**

## DOUBLE POST BASE

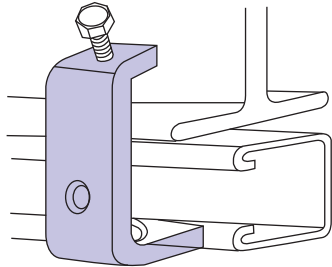


CATALOG NO. **DPS - 5240**

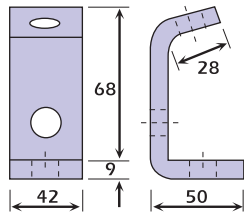
Unless other wise noted, all fittings will have the following dimensions :  
 WIDTH : 42mm, THICKNESS : 6mm, HOLE DIAMETER : 14mm,  
 HOLE SPACING : 20mm from end, 48mm on center  
 STANDARD FINISHES : Hot Dip Galvanized

# CABLE TRAY SYSTEM

## BEAM CLAMP

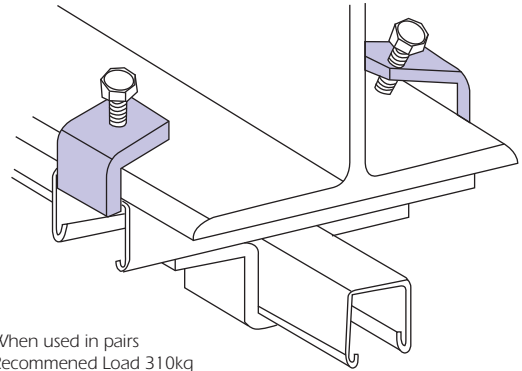


Recommended Load 340kg  
Safety factor of 5



CATALOG NO.

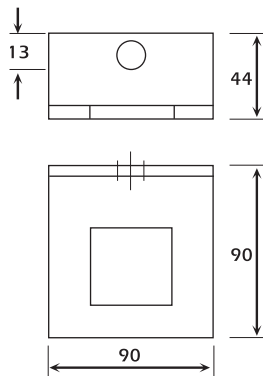
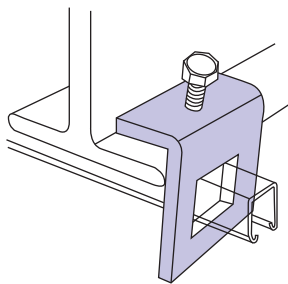
BC - 5241



When used in pairs  
Recommended Load 310kg  
Safety factor of 5

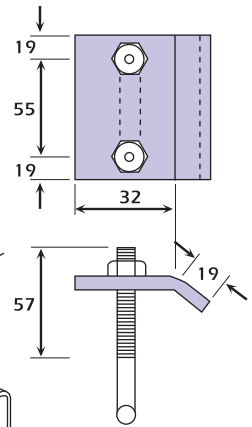
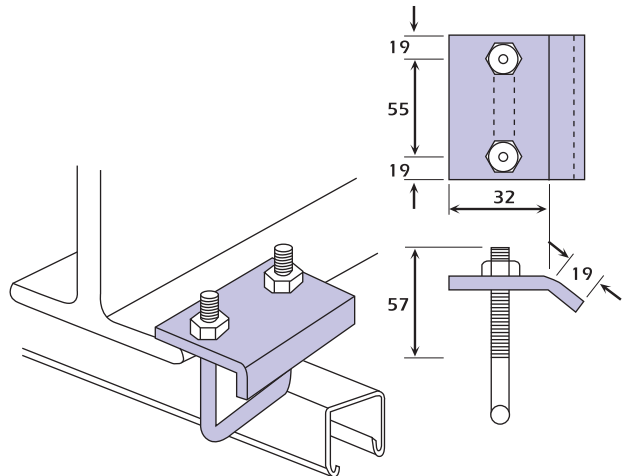
CATALOG NO.

BC - 5242



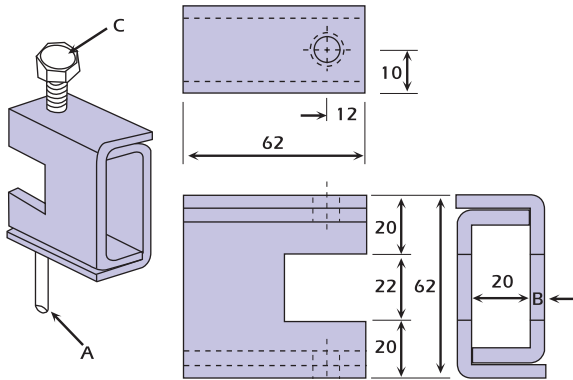
CATALOG NO.

BC - 5243



CATALOG NO.

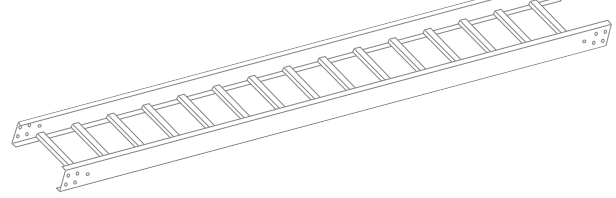
BC - 5244



CATALOG NO.	A	B	C	LOAD(kg)
BC - 5245	1/4" ~ 20	3.2	3/8" × 1 1/2	290
BC - 5246	5/16" ~ 18	3.2	3/8" × 1 1/2	290
BC - 5247	3/8" ~ 16	3.2	3/8" × 1 1/2	290
BC - 5248	3/8" ~ 16	4.5	1/2" × 1 1/2	500
BC - 5249	1/2" ~ 13	4.5	1/2" × 1 1/2	500
BC - 5250	1/2" ~ 13	6	1/2" × 1 1/2	700
BC - 5251	5/8" ~ 11	6	1/2" × 1 1/2	700
BC - 5252	5/8" ~ 11	8	5/8" × 1 1/2	1000
BC - 5253	3/4" ~ 10	8	5/8" × 1 1/2	1000

Unless other wise noted, all fittings will have the following dimensions :  
 WIDTH : 42mm, THICKNESS : 6mm, HOLE DIAMETER : 14mm,  
 HOLE SPACING : 20mm from end, 48mm on center  
 STANDARD FINISHES : Hot Dip Galvanized

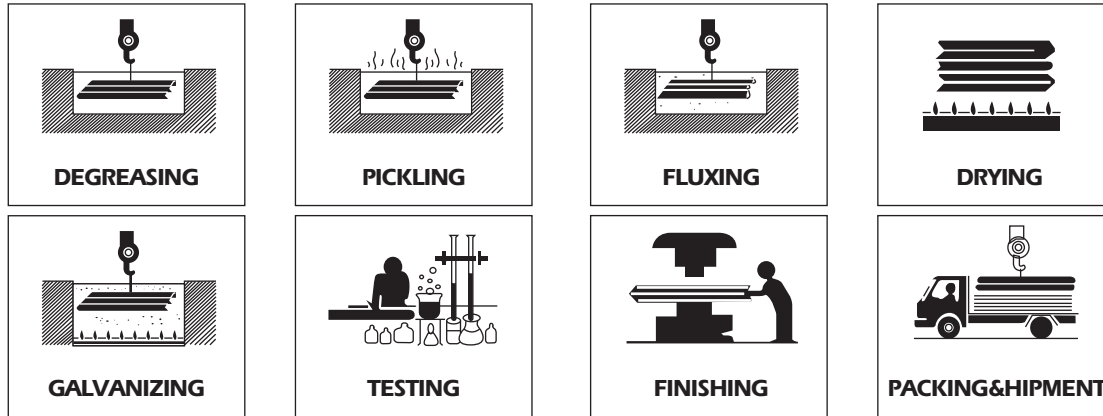
# CABLE TRAY SYSTEM



## TECHNICAL INFORMATION

### ZINC HOT DIP GALVANIZINGS

#### FLOW CHART FOR H.O.G PROCESS LINE



Specification of zinc hot dip galvanizings  
 KSD 8308 : korean industrial standard  
 JISH 8641 : Japanese industrial standard

Classification	Designation	Coating mass (g/m <sup>2</sup> )	Number of times copper sulfate test	Example of application(Reference)
CLASS 1	HDZA	-	4 times	Rollec' steels excluding tubes, steel products steel tubular products up to and incl. 5mm in thickness, bolts and nuts 12mm and over in dia, washers over 2.3mm in thickness
	HDZB	-	5 times	Rolled steels excluding tubes, steel products, steel tubular products and castings and forgings over 5mm in thickness
CLASS 2	HDZ 35	350mm		Rolled steels excluding tubes, and steel products with a range of 1mm and over to up to and incl. 2mm in thick bolts and nuts 12mm and over in dia, and washer over 2.3mm in thickness
	HDZ 40	400mm		Rolled steels excluding tubes, and steel products, with a range of 2mm to up and incl. 3mm in thick and castings and forgings.
	HDZ 45	450mm	-	Rolled steels excluding tubes, and steel products, with a range of 3mm to up to and incl. 3mm in thickness and castings and forgings.
	HDZ 50	500mm	-	Rolled steels excluding tubes, and steel products, over 5mm in thickness and castings and forgings.
	HDZ 55	550mm	-	Rolled steels excluding tubes, and steel products, castings forgings to be served under severs corrosion environmental conditions.
	HDZ 61	610mm	-	Rolled steels excluding tubes, and steel products, castings and forgings 5mm and over in thickness to be served under severe corrosion environmental conditions.