



한국공업규격 KS표시허가공장
KSA/ISO9001 품질SYSTEM 인증
벤처기업(기술부문)

KS C 8422

KS C 8458

KS C 8459

KS C 8460

KS C 8464

KS C 8465

RACEWAY SYSTEM

CABLE TRAY / DUCT

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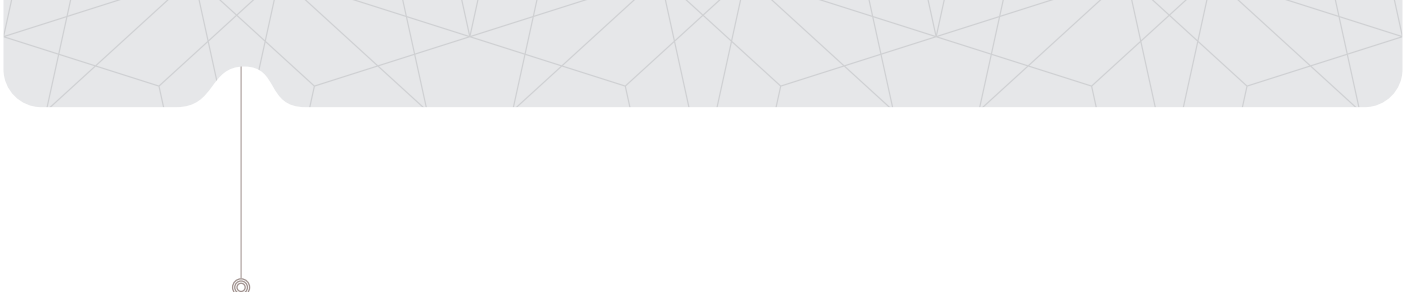


DAE YANG ENGINEERING. CO., LTD.
[주] 대 양 엔 지 니 어 링

DAE YANG ENGINEERING

회사연혁

2021. 08	접지형 레이스웨이 조립체 특허(제10-2289264호)
2021. 02	전선 연결용 전기 배선박스 실용신안등록(제20-0493248호)
2020. 04	CABLE TRAY CE 인증
2016. 01	상표등록 (제40-1154459호)
2015. 10	조명기구용 고정구 (디자인등록 제30-0819802호)
2015. 07	크린사업장 업체 인정
2011. 09	경기도 남양주시 화도읍 답내리 542-1, 543-5번지 제 2공장 증설 (대지 3,939㎡ 건물 1,695㎡)
2009. 12	경기도 남양주시 화도읍 녹촌리 480. 480-3번지 공장 증축 (대지 5,811㎡ 건평 3,425㎡)
2008. 08	[주]I.G 기술 M&A 자회사 편입
2007. 10	비닐피복 1종 금속제 가요전선관 (GW, SW) 인증 획득
2007. 03	레이스웨이 KS C 8465 국내최초 인증 획득
2006. 06	[주]대양엔지니어링 자회사 설립, 대표이사 이상배 취임
2006. 02	[주]삼일공업사 M&A 대표이사 박창훈 (KS C 8458 금속재 박스 제조 공장)
2004. 02	경기도 남양주시 화도읍 답내리 542-2, 542-3번지 제2공장 준공 (대지 2,877㎡ 건평 660㎡)
2002. 08	- KS C 8422 금속제 가요 전선관 : 1종금속제 가요전선관 - KS C 8458 매입 배관용 부속품 (전선관용) : PULL BOX, 중형대형, 카바류 - KS C 8459 금속제 가요 전선관용 부속품 - KS C 8460 금속제 전선관용 부속품 : 새들, 로크너트, 부싱, 커플링, 유니온커플링, 채널, 크램프, 노멀밴드 류 - KS C 8464 케이블트레이(사다리형)
2002. 04	한국수자원원자력 지정업체
2002. 01	병무청 기간사업체 등록업체
2001. 12	경기도 남양주시 화도읍 녹촌리 483번지 공장신축 이전 (대지 2,640㎡ 건평 1,610㎡)
2000. 11	건축용 행거 (실용신안 제 0210136호)
2000. 04	접지용클램프 (실용신안 제 0155612호)
2000. 02	KS C 8460 획득 (금속제 전선관용 부속품 KS C 8460)
1999. 06	특허기술개발사업 벤처기업인증 (중소기업청장)
1999. 04	I.S.O 9002인증 (국제 경영 시스템 인증원)
1998. 12	전기배선용 닥트 연결구 (실용신안 제 139154호)
1998. 11	전기단자용 합체 (의장등록 제 231902호)
1998. 06	스위치 박스용 연결구 (의장등록 제 223065호)
1997. 11	접지용크램프 (의장등록 제 209217호)
1997. 06	배관용 연결구 (의장등록 제 201047호)
1997. 01	전선보호용 가이드레일의 고정장치 (실용신안 제 102579호)
1997. 01	품질보증업체 지정 (한국전기전자 시험연구원)
1997. 01	전선용배관의 지지금구 (실용신안 제 102578호)
1996. 10	주식회사 대양엔지니어링 상호변경 대표이사 이상배 취임
1996. 04	전기박스 지지대 (의장등록 제 178401호)
1995. 09	건축벽 매립설치용 전기시설함체의 취부장치 (RACE WAY) (실용신안 제 082372호)
1995. 07	전선 보호용 가이드레일 고정 금구 (의장등록 제 165880호)
1995. 05	건축용행거 (의장등록 제 164410호)
1992. 05	대양산업 주식회사 설립, 대표이사 이강오 취임 경기도 남양주시 평내동 41-5 (대지 660㎡) (RACE WAY 및 광학기계, 기타전기잡자재 생산공장등록)
1992. 04	주식회사 성지전업 법인상호변경, 대표이사 이상배
1987. 05	성지 산업사 설립, 사장 이상배



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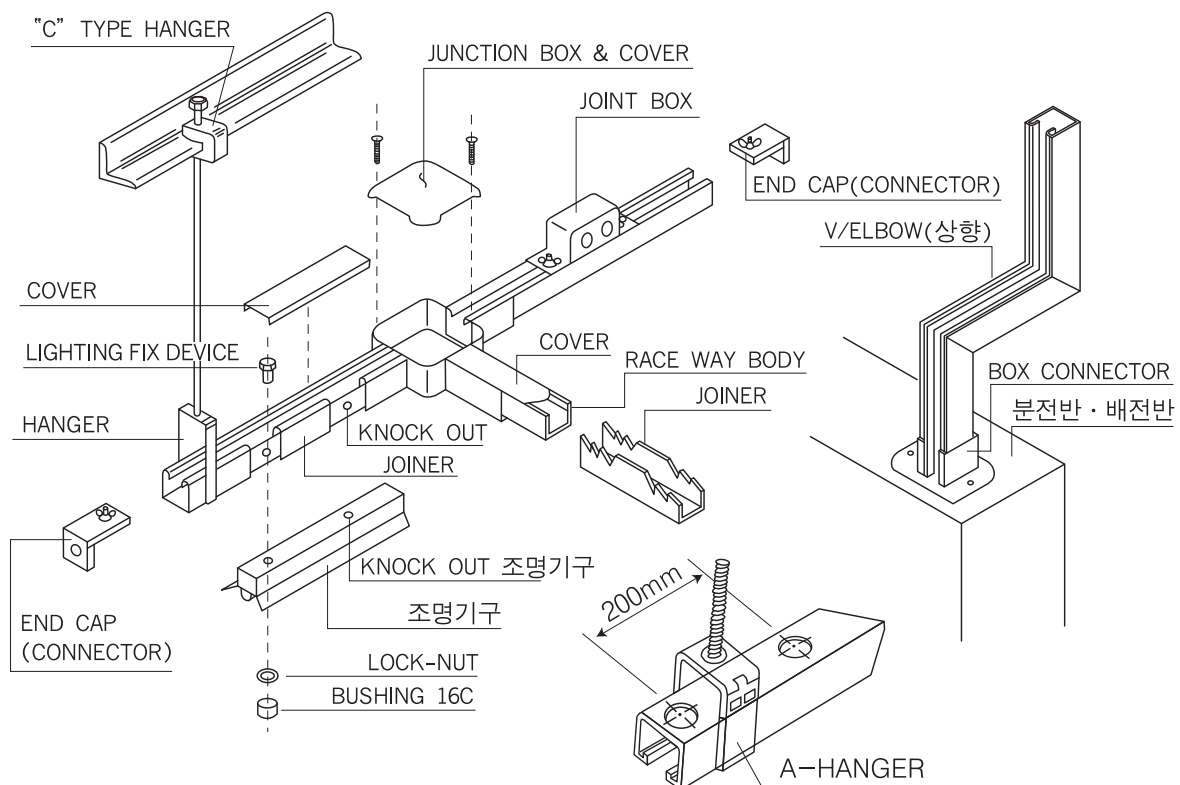
CONSTRUCTION

• Main Standard(주요규격)

40 x 40 SERIES(가로 40mm x 세로 40mm), 70 x 40 SERIES(가로 70mm x 세로 40mm),
110 x 50 SERIES(가로 110mm x 세로 50mm)

• Component(구성요소)

BODY(몸체), COVER(뚜껑), JOINER(연결구), END CAP, HANGER, "C" TYPE HANGER, LIGHTING FIXING DEVICE(기구용금구), HORIZONTAL ELBOW(수평 엘보우), VERTICAL ELBOW(수직 엘보우), BOX CONNECTOR, JUNCTION BOX, JOINT BOX



APPLICATION

1. The inside or outside installation of lighting fixtures or outlets at offices, garages, machine rooms, exhibition halls, production lines, temporary buildings and anywhere
2. The inside or outside wiring of low-tension cables, communication lines and etc.

접지형 레이스웨이 조립체 특허등록

특허 제 10-2289264호

레이스웨이 부속(FITTING)품에 접지동판을 부착한 특허제품으로, 기존의 레이스웨이 접지시공방법 보다 간편하며, 작업시간을 절약 할 수 있고, 기존의 접지방법보다 인피던스 값이 우수하다.

기존 설치 방법	특허품 사용시 설치 방법
레이스웨이의 바디에 접지홀을 주문제작	기성품의 레이스웨이 사용.
레이스웨이 바디와 바디 부분만 접지 시공 가능.	바디 부분외의 코너부분등 바디와 부속이 연결되는 모든 부분의 접지시공 가능.
바디 설치 후 바디의 홀에, GV전선 또는 편조선을 볼트를 사용하여 작업자가 하나하나 체결해야함.	특허품을 사용함으로써 GV전선 또는 편조선이 필요 없으며 간편한 시공, 작업시간단축, 인건비를 절약 할 수 있음.

시험결과

성적서 번호 : T2020-13331

5. 시험결과

시험항목	시험조건 및 방법	시험기준	시험결과
전기적 연속성	4. 시험조건 및 방법 참조	시료 #1 50 mΩ 이하일 것	0.22 mΩ
		시료 #2 50 mΩ 이하일 것	0.29 mΩ
		시료 #3 50 mΩ 이하일 것	0.32 mΩ
		시료 #4 1 m 당 5 mΩ 이하일 것	0.83 mΩ (1 m 기준)

6. 시험에 사용된 장비

장비명	장비번호	모델명 (제조사)
출자	2575-07	KMC-25RJ (Komelon)
멀티테스터	4439	MI2094 (Mettler)
Digital Multimeter	4277-02	8845A (Fluke)

7. 비고

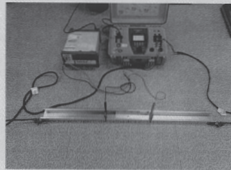
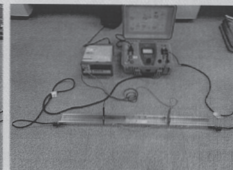
- 진행된 시험은 특별한 언급이 없는 한 IEC 60068-1에 따른 다음의 대기 조건에서 실시됨
(1) 온도 : (25 ± 10) °C
(2) 습도 : (50 ± 25) % R.H.

시험결과

성적서 번호 : T2020-13331

4. 시험조건 및 방법

시험항목	시험조건 및 방법	시험기준
전기적 연속성	1) 시료에 AC 12 V 미만의 시험전류 인가 - 시험전류 : AC (25 ± 1) A, (50 ~ 60) Hz	시료 #1 50 mΩ 이하일 것
	2) 전체 구간이 통전된 상태에서 시료별로 다른 두 지점간의 전압강하 측정	시료 #2 50 mΩ 이하일 것
	시료 #1 ~ #3 커넥터 또는 직선 커넥팅 각 측면으로부터 50 mm 떨어진 두 지점간의 전압강하 측정	시료 #3 50 mΩ 이하일 것
	시료 #4 500 mm 떨어진 두 개의 지점 사이	시료 #4 1 m 당 5 mΩ 이하일 것
3) 측정값으로 임피던스 계산		

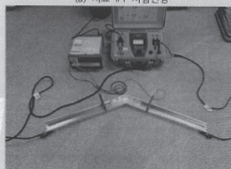
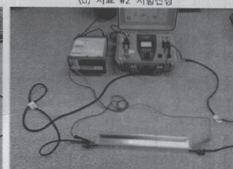



그림 2. 전기적 연속성 시험전경

시험결과

성적서 번호 : T2020-13331

1. 개요

본 시험성적서는 의뢰자가 제시한 시료, 시험조건 및 방법에 따라 진행된 결과임

2. 적용 또는 인용규격

의뢰자 제시 규격 [KS C 8464, KS C IEC 61537-A 참조]

3. 시험시료

(1) 시료명 : RACE-WAY
(2) 모델명 : 70X40
(3) 제조회사 : (주)대양엔지니어링
(4) 시료수 : 4 [EA]

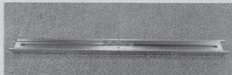
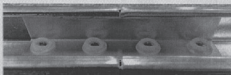
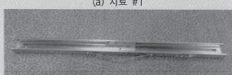
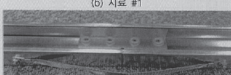
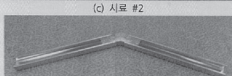
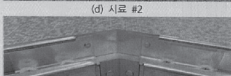
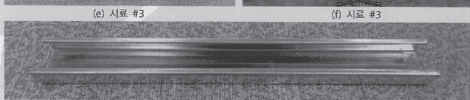








그림 1. 시료사진

시험성적서

성적서 번호 : T2020-13331

회사명 : (주)대양엔지니어링
대표자 : 이상배
주소 : 경기도 남양주시 화도읍 마치로284번길 51
연락처 : 02-747-6611

1. 시료명 : RACE-WAY
규격 및 형식 : 70X40
2. 성적서의 용도 : 품질관리용
3. 접수일자 : 2020.10.23
4. 시험일자 : 2020.11.02 ~ 2020.11.03
5. 시험방법 : 의뢰자 제시 규격 [KS C 8464, KS C IEC 61537-A 참조]
6. 시험결과 : 불일 참조

시험자 : 송정성 송정성 승인자 : 형재필 형재필

1. 이 성적서는 의뢰자가 제시한 시료 및 시험조건에 따라 시험한 결과로서 관제 제품에 대한 품질을 보증하지는 않습니다.
2. 이 성적서는 우리 시험연구원의 사전 동의 없이 정보, 인건, 광고 및 소송용으로 사용될 수 없으며 용도 이외의 사용을 금합니다.
3. 이 성적서의 사본은 무효입니다.

2020년 11월 05일

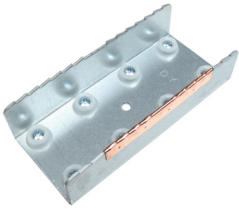
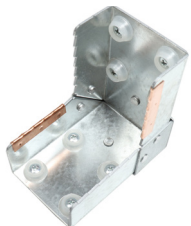
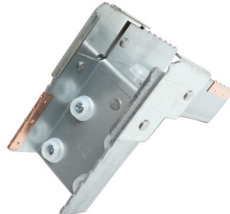
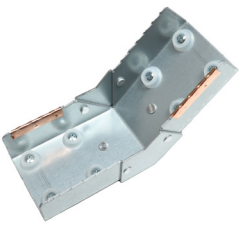
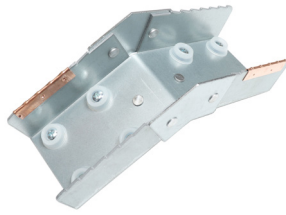
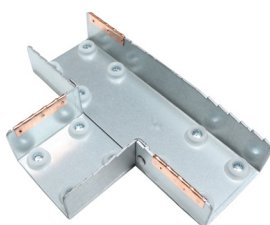
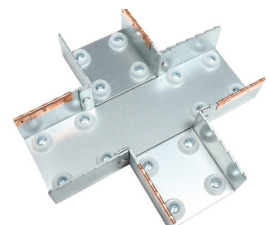
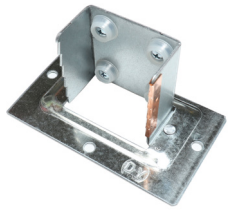
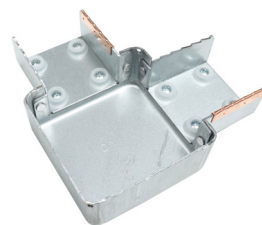
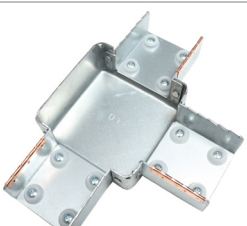
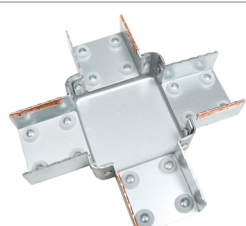
www.ktc.re.kr 15809 경기도 군포시 흥안대로27번길 22
TEL : 1999-7654

한국기계전기전자시험연구원

※지명원에 첨부되어 있습니다.

접지형 레이스웨이 조립체 특허등록

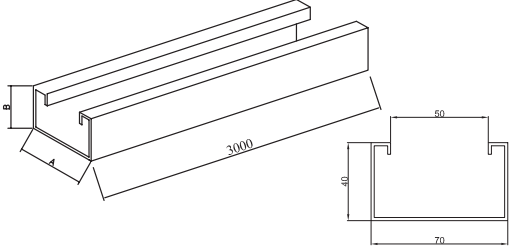
특허 제 10-2289264호

JOINER	H/ELBOW
	
V/ELBOW IN	V/ELBOW OUT
	
V/ELBOW IN 45	V/ELBOW OUT 45
	
H/ELBOW TEE	H/ELBOW CROXS
	
BOX CONNECTOR	JUNCTION BOX 2방
	
JUNCTION BOX 3방	JUNCTION BOX 4방
	

DY- RaceWay System

KS C 8465 인증번호 : 제07-0117호

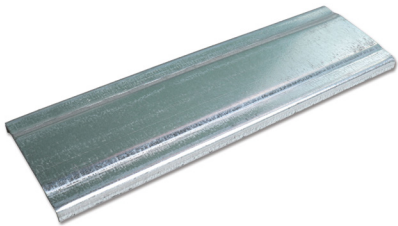
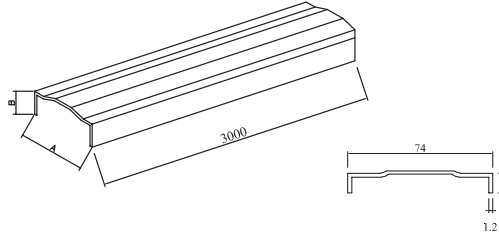
※ SUS RaceWay 생산가능 (Junction Box 제외)

BODY	LOT NO	DY44-1, DY74-1, DY110-1	
	EXTERNAL		
	MATERIAL	1.6t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	
	LENGTH	3,000m/m	

절판두께=1.6t

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

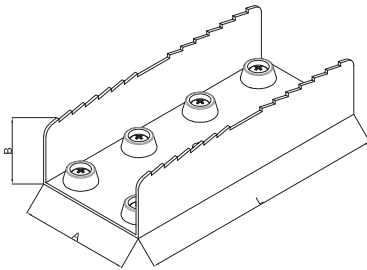
DY44-1			DY74-1			DY110-1		
A	B	C	A	B	C	A	B	C
40	40	20	70	40	50	110	50	90

COVER	LOT NO	DY44-2, DY74-2, DY110-2	
	EXTERNAL		
	MATERIAL	1.2t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	
	LENGTH	3,000m/m	

절판두께=1.2t

In order to protect laid electric wires and assemble a cover easily, our company uses the out type cover. Cover should be fastened by cover clamp.

DY44-2			DY74-2			DY110-2		
A	B		A	B		A	B	
44	10		74	10		114	10	

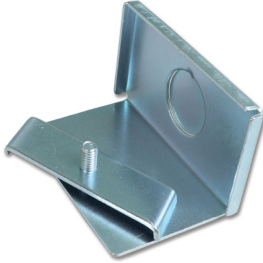
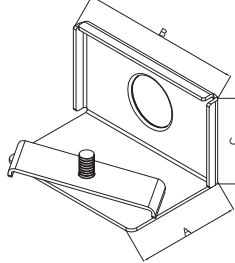
JOINER	LOT NO	DY44-3, DY74-3, DY110-3	
	EXTERNAL		
	MATERIAL	2.0t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	

절판두께=2.0t

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

DY44-3			DY74-3			DY110-3		
A	B	C	A	B	C	A	B	C
35	35	150	66	35	150	105	44	160

DY- RaceWay System

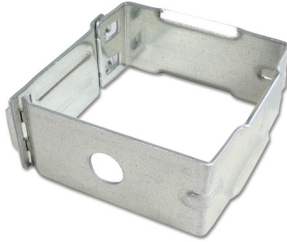
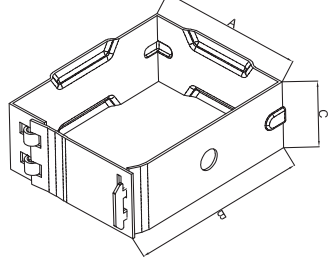
END CAP	LOT NO	DY44-4, DY74-4, DY110-4	
	EXTERNAL		
	MATERIAL	2.0t HOT ROLLED G.I.(아연도 용융도금강판 G.I.) KSD3506	

End cap is used at the end of the RACE WAY body. It is tightened on the formed edge of body by wing of its as to nut. Its side has to knock out-(22mm hole) which can be connected with wire flexible connector.

절판두께=2.0t

DY44-4			DY74-4			DY110-4		
A	B	C	A	B	C	A	B	C
50	46	46	50	75	46	50	113	54

특허제 : 0376812호

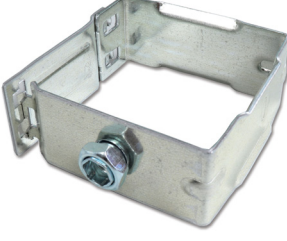
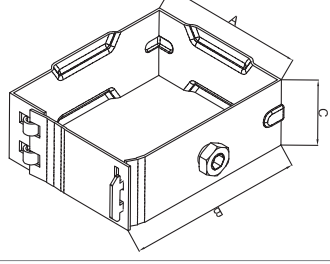
A-HANGER	LOT NO	DY44-5, DY74-5, DY110-5	
	EXTERNAL		
	MATERIAL	1.6t HOT ROLLED G.I.(아연도 용융도금강판 G.I.) KSD 3506	

A-Hanger is hanging acc to hang the RACE WAY line on the ceiling. The connecting thread rod and nut should be used $\frac{3}{8}$ " and $\frac{1}{2}$ ". Its locking is side open type which makes it easy to open and close as one touch.

절판두께=1.6t

DY44-5			DY74-5			DY110-5		
A	B	C	A	B	C	A	B	C
82	50	34	82	78	34	95	120	44

특허제 : 0376812호

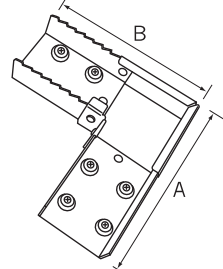
A-HANGER (NUT)	LOT NO	DY44-6, DY74-6, DY110-6	
	EXTERNAL		
	MATERIAL	1.6t HOT ROLLED G.I.(아연도 용융도금강판 G.I.) KSD 3506	

A-Hanger is hanging acc to hang the RACE WAY line on the ceiling. The connecting thread rod and nut should be used $\frac{3}{8}$ ". Its locking is side open type which makes it easy to open and close as one touch.

절판두께=1.6t

DY44-6			DY74-6			DY110-6		
A	B	C	A	B	C	A	B	C
82	50	34	82	78	34	95	120	44

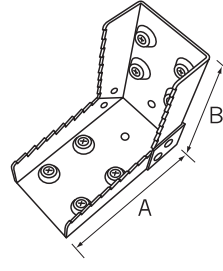
DY- RaceWay System

HORIZONTAL ELBOW (90°)	LOT NO	DY44-7, DY74-7, DY110-7	
	EXTERNAL		
	MATERIAL	2.0t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	

This fitting is used to change the vertical at 90° degree horizontal direction in the RACE WAY line. The method of assembly is the same as joiner's.

절판두께=2.0t

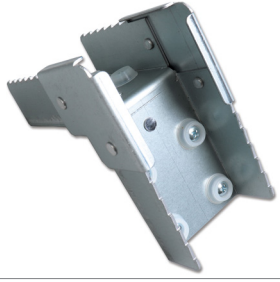
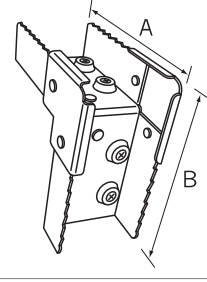
DY44-7		DY74-7		DY110-7	
A	B	A	B	A	B
111	111	157	157	197	197

VERTICAL ELBOW-IN (90°)	LOT NO	DY44-8, DY74-8, DY110-8	
	EXTERNAL		
	MATERIAL	2.0t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	

This fitting is used to change the vertical direction up ward in the RACE WAY line. The method of assembly is the same as joiner's.

절판두께=2.0t

DY44-8		DY74-8		DY110-8	
A	B	A	B	A	B
94	94	102	102	120	120

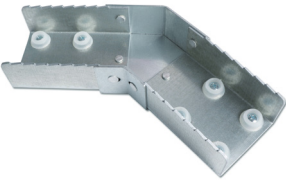
VERTICAL ELBOW-OUT (90°)	LOT NO	DY44-9, DY74-9, DY110-9	
	EXTERNAL		
	MATERIAL	2.0t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	

This fitting is used to change the vertical direction at 90° degree downward in the RACE WAY line. The method of assembly is the same as joiner's.

절판두께=2.0t

DY44-9		DY74-9		DY110-9	
A	B	A	B	A	B
111	111	127	127	140	140

DY- RaceWay System

ELBOW	LOT NO	H/ELBOW 45°	V/ELBOW IN 45°	V/ELBOW OUT 45°
	EXTERNAL			
	MATERIAL	2.0t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506		

절판두께=2.0t

DY44-10		DY74-10		DY110-10	
A	B	A	B	A	B
88	88	126	126	142	142

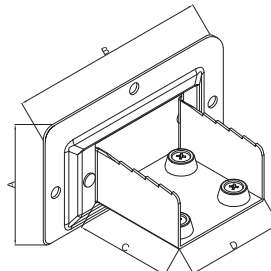
절판두께=2.0t

DY44-11		DY74-11		DY110-11	
A	B	A	B	A	B
90	90	100	100	120	120

절판두께=2.0t

DY44-12		DY74-12		DY110-12	
A	B	A	B	A	B
88	88	104	104	115	115

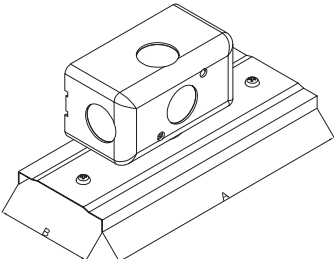
※ 35°/15° 주문 생산가능

BOX CONNECTOR	LOT NO	DY44-13, DY74-13, DY110-13	
	EXTERNAL		
	MATERIAL	2.0t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	

This fitting is used to connect RACE WAY body with telecommunication panel or others. And at the construction site it makes RACE WAY line to robust as to install it on the wall.

절판두께=2.0t

DY44-13				DY74-13				DY110-13			
A	B	C	D	A	B	C	D	A	B	C	D
76	135	35	35	76	135	35	66	98	180	44	105

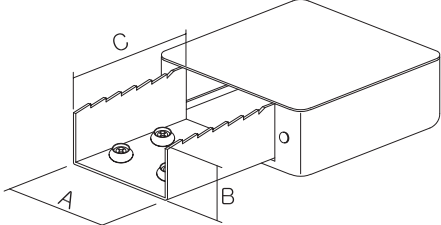
JOINT BOX	LOT NO	DY44-14, DY74-14, DY110-14	
	EXTERNAL		
	MATERIAL	1.6t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	

This fitting is used to install consent telephone jacks, telecommunication jacks and television. The function is the same as a receptacle box.

절판두께=1.6t

DY44-14		DY74-14		DY110-14	
A	B	A	B	A	B
192	44	192	74	195	114

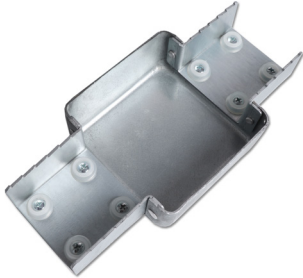
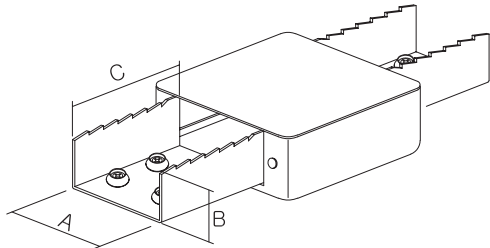
DY- RaceWay System

JUNCTION BOX (1WAY)	LOT NO	DY44-15, DY74-15, DY110-15	
	EXTERNAL		
	MATERIAL	2.0t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	

This fitting be used to change the horizontal direction at “L” shape, “T” shape and “+” shape and in the RACE WAY line. The method of assembly is the same as joiner's.

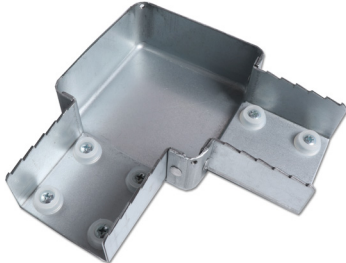
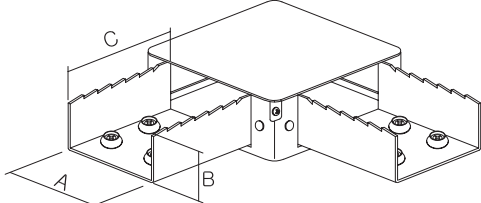
절판두께=2.0t

DY44-15			DY74-15			DY110-15		
A	B	C	A	B	C	A	B	C
35	35	60	66	35	62	105	44	75

JUNCTION BOX (2WAY-I)	LOT NO	DY44-16, DY74-16, DY110-16	
	EXTERNAL		
	MATERIAL	2.0t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	

절판두께=2.0t

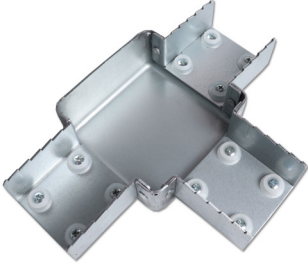
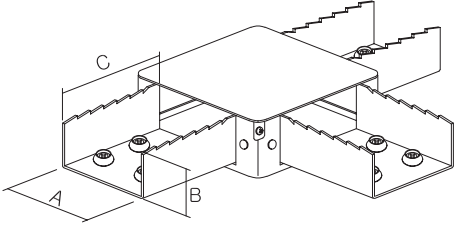
DY44-16			DY74-16			DY110-16		
A	B	C	A	B	C	A	B	C
35	35	60	66	35	62	105	44	75

JUNCTION BOX (2WAY-L)	LOT NO	DY44-17, DY74-17, DY110-17	
	EXTERNAL		
	MATERIAL	2.0t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	

절판두께=2.0t

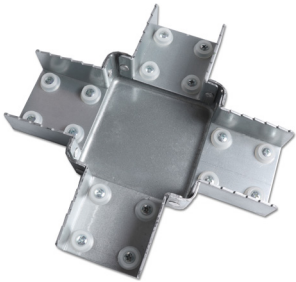
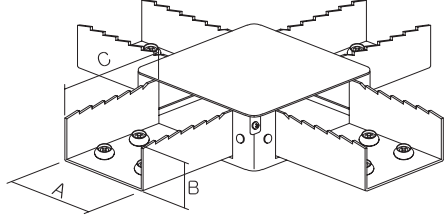
DY44-17			DY74-17			DY110-17		
A	B	C	A	B	C	A	B	C
35	35	60	66	35	62	105	44	75

DY- RaceWay System

JUNCTION BOX (3WAY)	LOT NO	DY44-18, DY74-18, DY110-18	
	EXTERNAL		
	MATERIAL	2.0t HOT ROLLED G.I.(아연도 용융도금강판 G.I.) KSD 3506	

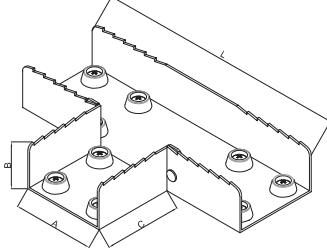
절판두께=2.0t

DY44-18			DY74-18			DY110-18		
A	B	C	A	B	C	A	B	C
35	35	60	66	35	62	105	44	75

JUNCTION BOX (4WAY)	LOT NO	DY44-19, DY74-19, DY110-19	
	EXTERNAL		
	MATERIAL	2.0t HOT ROLLED G.I.(아연도 용융도금강판 G.I.) KSD 3506	

절판두께=2.0t

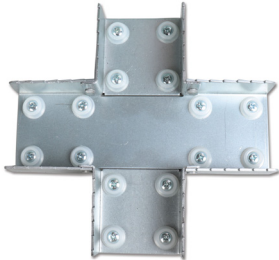
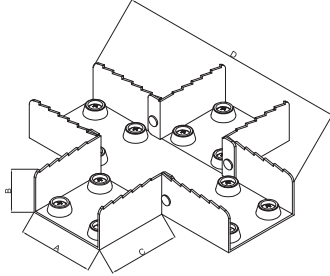
DY44-19			DY74-19			DY110-19		
A	B	C	A	B	C	A	B	C
35	35	60	66	35	62	105	44	75

HORIZONTAL ELBOW TEE	LOT NO	DY44-20, DY74-20, DY110-20	
	EXTERNAL 외관		
	MATERIAL	2.0t HOT ROLLED G.I.(아연도 용융도금강판 G.I.) KSD 3506	

절판두께=2.0t

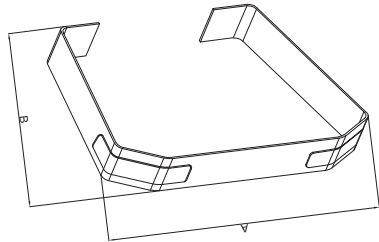
DY44-20				DY74-20				DY110-20			
A	B	C	D	A	B	C	D	A	B	C	D
35	35	60	150	66	35	60	200	105	44	73	245

DY- RaceWay System

HORIZONTAL ELBOW CROSS	LOT NO	DY44-21, DY74-21, DY110-21	
	EXTERNAL 외관		
	MATERIAL	2.0t HOT ROLLED G.I.[아연도 용융도금강판 G.I.] KSD 3506	

절판두께=2.0t

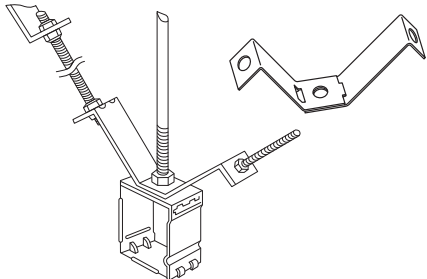
DY44-21				DY74-21				DY110-21			
A	B	C	D	A	B	C	D	A	B	C	D
35	35	60	150	66	35	60	200	105	44	73	245

COVER BAND(SUS)	LOT NO	DY-22	
	EXTERNAL 외관		
	MATERIAL	STAINLESS STEEL SUS 304	

절판두께=0.5t

Race way cover band used to fix the cover

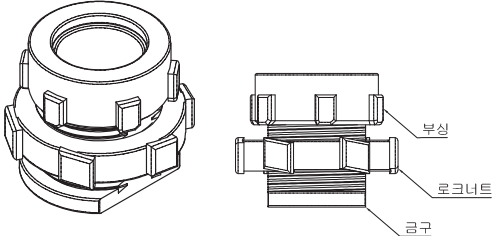
DY44-22		DY74-22		DY110-22	
A	B	A	B	A	B
47	45	76	45	115	55

HANGER SUPPORT	LOT NO	DY-23	
	EXTERNAL 외관		
	MATERIAL	2.0t 전기용융아연도금(G.I)판 G.I, KSD 3506	

Hanger Supporter is used to prevent shaking and support firmly.

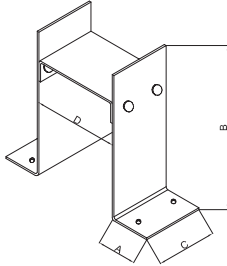
DY- RaceWay System

디자인등록제 30-0819802호

LIGHTING FIXING DEVICE	LOT NO	DY-24	
	EXTERNAL 외관		
	MATERIAL	기구용 금구 (21mm) PVC	

This is the fitting to join and assemble the lighting on the RACE WAY bottom. It have two function. One is assemble with lighting and other is that laid cable be connected with the lighting through hole.

LIGHTING FIXING DEVICE	LOT NO	DY-25	
	EXTERNAL 외관		
	MATERIAL	기구용 금구 (17mm) LED용	기구용 금구 (21mm) 갓등용
아연			

RACE WAY BRACKET	LOT NO	DY44-26, DY74-26, DY110-26	
	EXTERNAL 외관		
	MATERIAL	2.0t HOT ROLLED G.I.(아연도 용융도금강판 G.I.) KSD 3506	

절판두께=1.6t

The hanger support is used to fastened at the bottom or inside ceiling.

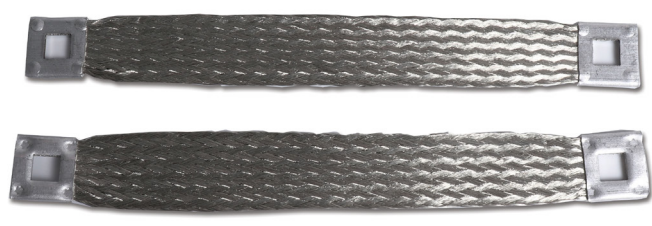
DY44-26				DY74-26				DY110-26			
A	B	C	D	A	B	C	D	A	B	C	D
31.5	120.5	50	45	31.5	120.5	50	75	31.5	120.5	50	115

DY- RaceWay Jumper

JUMPER (주공용)	LOT NO	DY-27
	EXTERNAL	
	MATERIAL	편조선 6SQ × 310L

GV JUMPER (주공용)	LOT NO	DY-28
	EXTERNAL	
	MATERIAL	GV 6SQ × 310L

태양광모듈접지	LOT NO	DY-29
	EXTERNAL	
	MATERIAL	4SQ, 6SQ (L = 100~300)

BONDING JUMPER	LOT NO	DY-30
	EXTERNAL	
	MATERIAL	14SQ × 250L, 25SQ × 250L, 38SQ × 250L

DY- RaceWay System

KS C 8465 인증번호 : 제07-0117호

SPECIFICATION

1. 적용범위

이 SPECIFICATION는 RACE WAY의 제작에 적용된다.

2. 재 질

RACE WAY BODY 아연도 용융도금강판 (G. I. KSD 3506)
RACE WAY COVER 아연도 용융도금강판 (G. I. KSD 3506)
RACE WAY FITTING 아연도 용융도금강판 (G. I. KSD 3506)
압연강판 (KSD 3503)

3. 마 감

RACE WAY BODY 아연도 용융도금강판 (G. I. KSD 3506)
RACE WAY COVER 아연도 용융도금강판 (G. I. KSD 3506)
RACE WAY FITTING 아연도 용융도금강판 (G. I. KSD 3506)
압연강판 (KSD 3503)
BOLT & NUT S45C 전기 아연도금 (KSD 8304)

4. CONNECTION

RACE WAY 안쪽에서 PE박킹과 BOLT로 접속

5. COVER FIXING

BOLT를 사용하지 않고 BODY와 접속후 SUS BEND로 고정

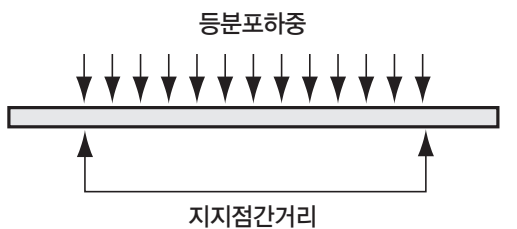
6. 규 격 (길이)

RACE WAY BODY 3M (LIGHTING SUPPORT 간격 200mm)
RACE WAY COVER 3M

7. CONNECTION용 BOLT

M6 ROUND HEAD BOLT, & PE 박킹 사용
이 SPECIFICATION 외의 사항은 별첨되면 참조

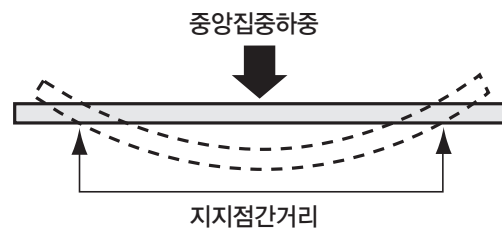
▶ 등분포하중



허용정하중(kg)

SERIES	DY110-4				
	1.0	1.5	2.0	2.5	3.0
40×40	372	110	46	23	13
	372	165	93	59	41
70×40	551	162	68	35	20
	551	244	137	88	61
110×50	1028	304	128	65	38
	1028	457	257	164	114

▶ 중앙집중하중



허용정하중(kg)

SERIES	DY110-4				
	1.0	1.5	2.0	2.5	3.0
40×40	372	165	93	59	41
	372	165	93	59	41
70×40	551	244	137	88	61
	551	244	137	88	61
110×50	1028	304	128	65	38
	1028	304	128	65	38

전선의 최대수용본수 (단면적의 20%)

허용정하중(kg)

전선	600V 비닐절연 단면적(mm²)	SERIES			비고
		40×40	70×40	110×50	
1.6mm	8	33	58	120	
2.0mm	10	27	46	96	
5.5mm	20	13	23	48	

• 전기아연도금(크로메트) 처리

전해법으로 금속(Fe)의 표면에 아연피막을 입히고, 방청효과를 높이기 위하여, 크롬산에 유산을 섞은 수용액에 의하여 처리하는 방법으로 표면은 광택이 있는 금색(GOLD)을 띄게 된다.

• 전기아연도금(유니크롬) 처리

전해법으로 금속(Fe)의 표면에 아연피막을 입히고, 색을 띄지 않은 크롬산의 수용액에 의하여 처리하는 방법으로 표면은 광택이 있는 은색(SILVER)을 띄게 된다.

DY- C-Hanger / D-Hanger

C-HANGER

실용신안특허 제102578호 / 의장등록 제164410호

건축물의 천정이 높으면서 Race Way Line이 낮아서 걸이용 Rod의 길이가 길어질 경우 Race Way의 견고성을 유지하기 위한 제품으로서, 종전의 Hanger는 “I” Beam “ㄱ” Angle의 턱에 고정시킬 경우 경사면에서 미끄러짐 현상이 있었으나, 이를 톱니식 NUT로 보완함으로써 보다 견고하게 고정시킬 수 있으며, 더불어 걸이용 Rod의 고정은 Rod에 Nut를 조인 후 본 Hanger에 밀어 넣고 당기면 설치할 수 있으며, 또한 Beam Clamp(파이라이크)의 대용으로도 사용할 수 있도록 제작하였습니다.

품명	규격	빔두께(최대치수)	비고
C-HANGER	중형	25mm	3/8탭, 1/2공용
C-HANGER	대형	27mm	3/8탭, 1/2공용
C-HANGER	중대형	33mm	3/8탭, 1/2공용
C-HANGER	특대형	48mm	3/8탭, 1/2공용
C-HANGER(용융도금)	중대형	33mm	3/8탭, 1/2공용

한국전기전자시험연구원-하중시험결과

품명	규격	시험내용	단위	시험결과
C-HANGER	중형	최대인장하중측정	N	3 058
C-HANGER	대형	최대인장하중측정	N	5 872

LOT NO	DY-15
EXTERNAL 외관	
MATERIAL	3.0t 냉간압연강판 전기아연도금

D-HANGER

특허출원 제044183-1호실용신안 제0045024호

- 본 제품은 “I” BEAM, “L” ANGLE 등에 중량물을 고정시킬 수 있는 장치입니다.
- 기존제품은 한방향 한지기의 중량물을 고정할 수 있으나 본 제품은 여러 방향 여러 중량물을 고정할 수 있는 장치를 새로 개발
- 사용용도 : 교량 및 교량의 조명공사, 공장천정 및 조명공사, RACE WAY 및 TRAY 고정, 각종 파이프 및 잔널 등 각종 공사 자재

품명	규격	빔두께(최대치수)	비고
D-HANGER	대형	27mm	3/8탭, 1/2공용
D-HANGER	특대형	48mm	3/8탭, 1/2공용
D-HANGER	중형	27mm	3/8탭, 1/2탭

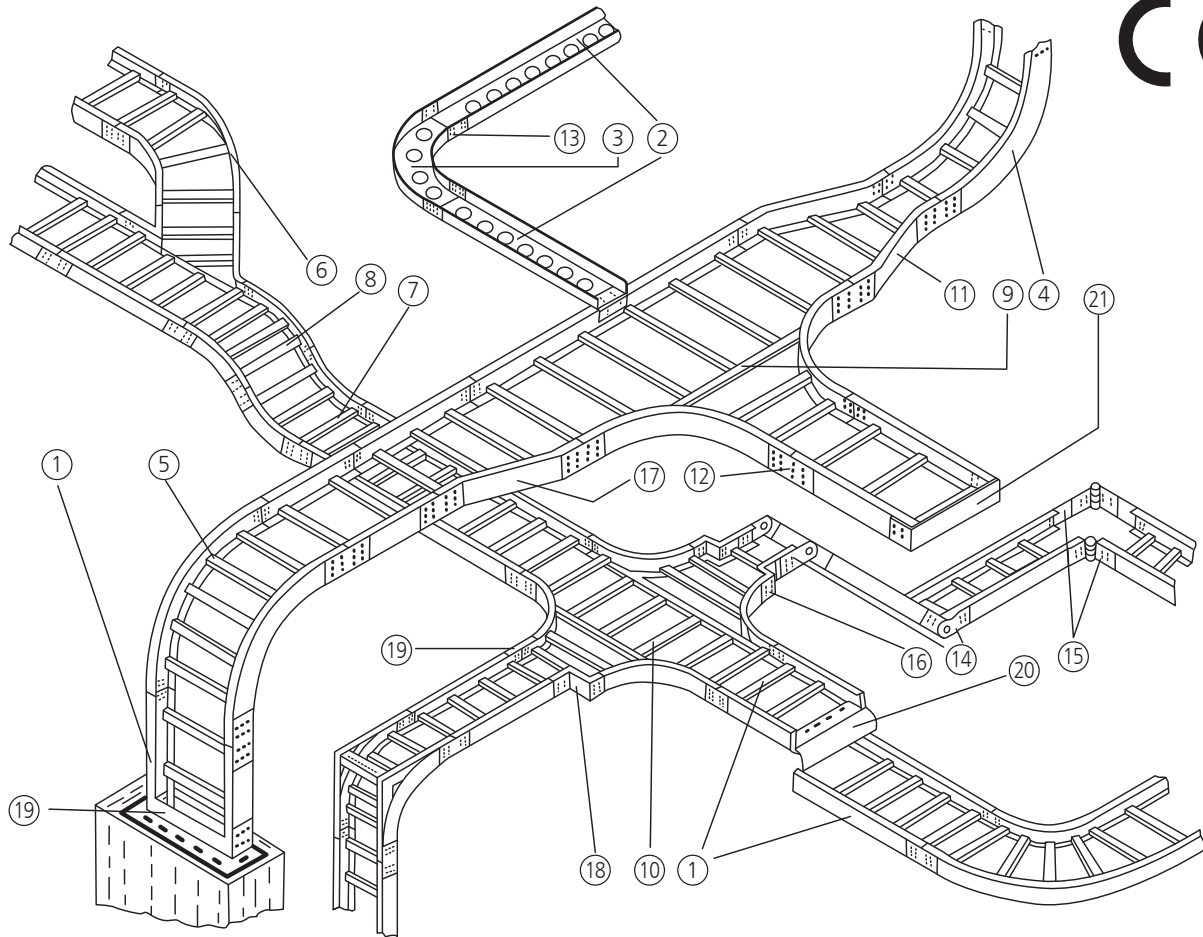
한국전기전자시험연구원-하중시험결과

품명	규격	시험내용	단위	시험결과
D-HANGER	중형	최대인장하중측정	N	6 099
D-HANGER	대형	최대인장하중측정	N	6 939

LOT NO	DY-16
EXTERNAL 외관	
MATERIAL	3.0t 냉간압연강판 전기아연도금

DY- Ladder Type Cable Tray System

KS C 8464 인증번호 : 제02-2821호



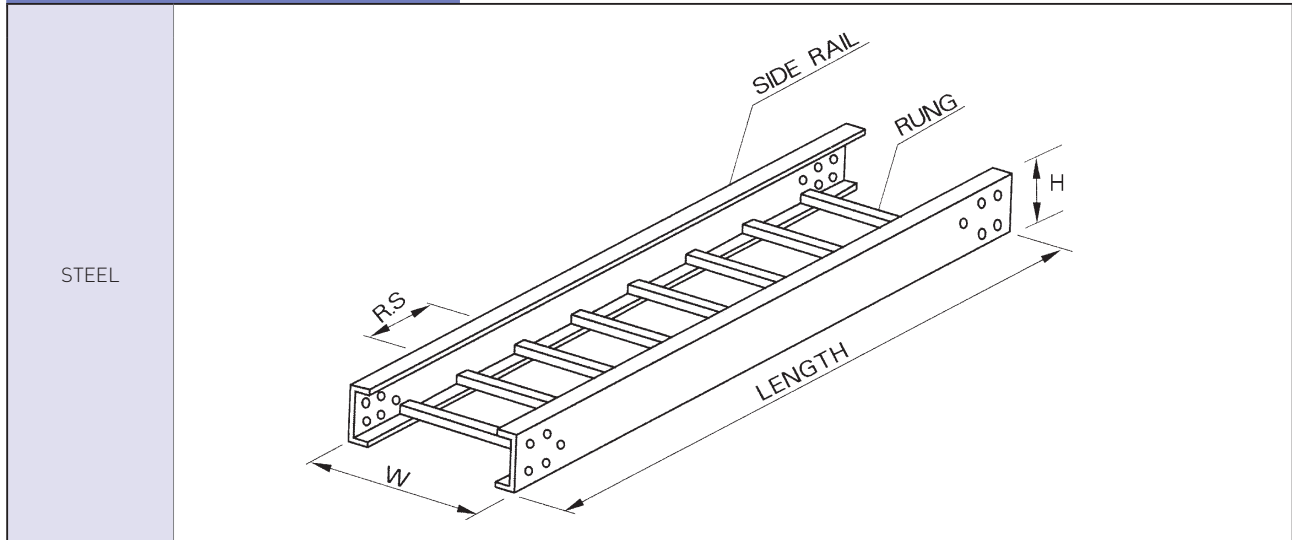
- | | |
|------------------------------|-----------------------------------|
| ① CABLE TRAY-STRAIGHT | ⑫ JOINT CONNECTOR |
| ② SYSTEM CHANNEL-STRAIGHT | ⑬ CHANNEL CONNECTOR |
| ③ CHANNEL HORIZONTAL FITTING | ⑭ ADJUSTABLE RISER CONNECTOR |
| ④ VERTICAL ELBOW INSIDE 90° | ⑮ ADJUSTABLE HORIZONTAL CONNECTOR |
| ⑤ VERTICAL ELBOW OUTSIDE 90° | ⑯ STRAIGHT REDUCING CONNECTOR |
| ⑥ HORIZONTAL ELBOW 45° | ⑰ RIGHT HAND REDUCER |
| ⑦ VERTICAL ELBOW INSIDE 45° | ⑱ OFFSET REDUCING CONNECTOR |
| ⑧ VERTICAL ELBOW OUTSIDE 45° | ⑲ BOX CONNECTOR |
| ⑨ HORIZONTAL TEE | ⑳ END DROPOUT |
| ⑩ HORIZONTAL CROSS | ㉑ BLIND END PLATE |
| ⑪ REDUCER | |

DY- Ladder Cable Tray System

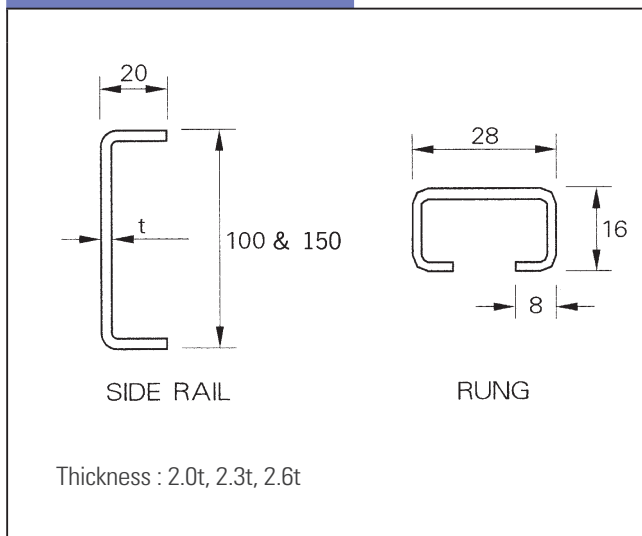
KS C 8464 인증번호 : 제02-2821호



LADDER TRAY INSIDE RAIL



TECHNICAL DATA



Material : SS41, SS40 etc..

Finish : Hot dip galvanized KS C 3506, ASTM A123

Length : 3M or 6M

Option : Stainless Steel

※ 2.6t 기준

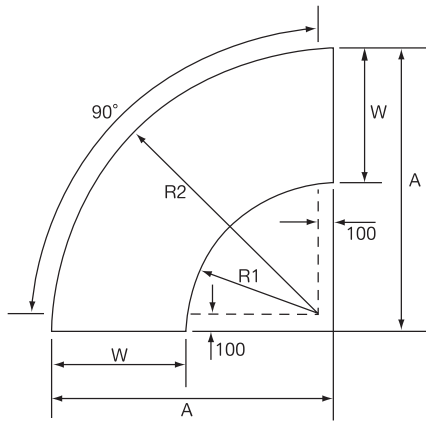
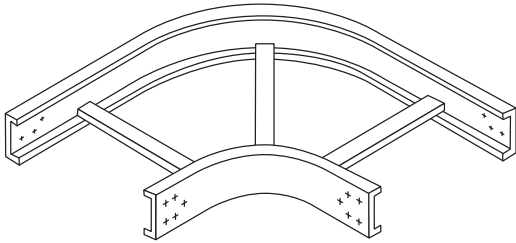
SIDE RAIL HIGH(H)	H 100		H 150		REMARK
	SIDE WIDE(W)	RUNG SPACING kg/m	RUNG SPACING kg/m	kg/m	
150	200	6.8	200	7.6	
	300	6.5	300	7.3	
200	200	7	200	7.8	
	300	6.7	300	7.5	
300	200	7.5	200	8.3	
	300	7	300	7.8	
450	200	8.3	200	9.1	
	300	7.6	300	8.4	
600	200	9	200	9.8	
	300	8.1	300	8.9	
750	200	9.8	200	10.6	
	300	8.6	300	9.4	
900	200	10.5	200	11.3	
	300	9.2	300	10	
1000	200	11	200	11.8	
	300	9.5	300	11.3	

DY- Ladder Tray System

KS C 8464 인증번호 : 제02-2821호

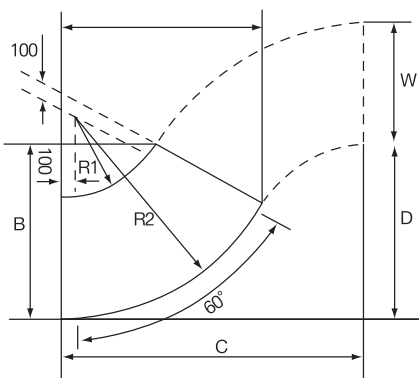


HORIZONTAL ELBOW 90°



CATALOG NO.	W	R1	R2	A
HE9-153 -156 -159	150	300 600 900	450 750 1050	570 875 1175
HE9-203 -206 -209	200	300 600 900	500 800 1100	625 925 1225
HE9-303 -306 -309	300	300 600 900	600 900 1200	775 1075 1375
HE9-453 -456 -459	450	300 600 900	750 1050 1350	875 1175 1475
HE9-603 -606 -609	500	300 600 900	900 1200 1500	1025 1325 1625
HE9-753 -756 -759	750	300 600 900	1050 1350 1650	1175 1475 1775
HE9-903 -906 -909	900	300 600 900	1200 1500 1800	1325 1625 1925
HE9-003 -006 -009	1000	300 600 900	1300 1600 1900	1425 1725 2025

HORIZONTAL ELBOW 60°



CATALOG NO.	W	R1	R2	A	B	C	D
HE6-153 -156 -159	150	300 600 900	450 750 1050	577 837 1097	408 558 708	1024 1544 2063	592 892 1192
HE6-203 -206 -209	200	300 600 900	500 800 1100	620 880 1140	458 608 708	1067 1587 2107	616 916 1216
HE6-303 -306 -309	300	300 600 900	600 900 1200	707 967 1227	558 708 858	1154 1674 2194	667 967 1267
HE6-453 -456 -459	450	300 600 900	750 1050 1350	837 1097 1357	708 858 1008	1284 1804 2324	742 1042 1342
HE6-603 -606 -609	500	300 600 900	1900 1200 1650	967 1227 1617	858 1158 1458	1414 1934 2453	817 1117 1417
HE6-753 -756 -759	750	300 600 900	1050 1350 1650	1097 1357 1617	1008 1158 1308	1544 2063 2583	892 1192 1492
HE6-903 -906 -909	900	300 600 900	1200 1500 1800	1227 1487 1747	1158 1308 1458	1674 2194 2713	967 1267 1567
HE6-003 -006 -009	1000	300 600 900	1300 1600 1900	1307 1507 1707	1258 1408 1558	1717 2237 2756	1017 1317 1617

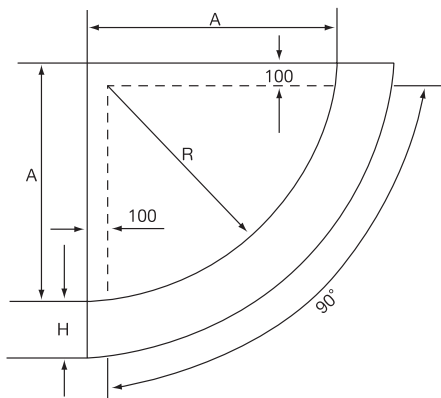
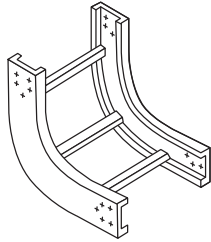
DY- Ladder Tray System

KS C 8464 인증번호 : 제02-2821호



VERTICAL ELBOW 90°

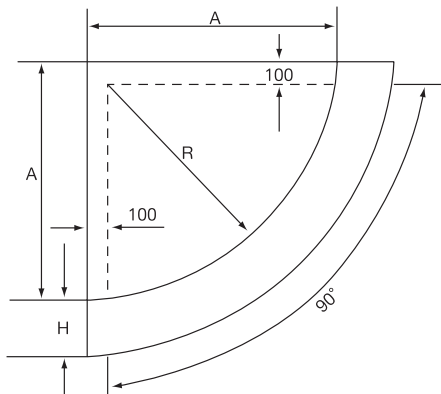
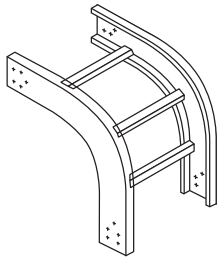
IN SIDE TYPE



CATALOG NO.	W	R	A
VE9-153 -156 -159	150	300 600 900	425 725 1025
VE9-203 -206 -209	200	300 600 900	425 725 1025
VE9-303 -306 -309	300	300 600 900	425 725 1025
VE9-453 -456 -459	450	300 600 900	425 725 1025
VE9-603 -606 -609	500	300 600 900	425 725 1025
VE9-753 -756 -759	750	300 600 900	425 725 1025
VE9-903 -906 -909	900	300 600 900	425 725 1025
VE9-003 -006 -009	1000	300 600 900	425 725 1025

VERTICAL ELBOW 60°

OUT SIDE TYPE



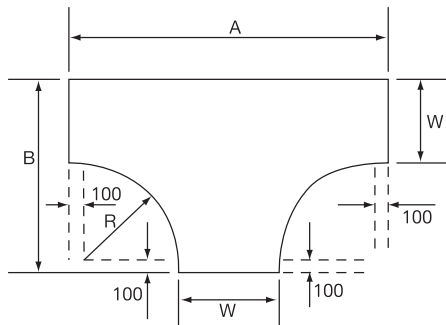
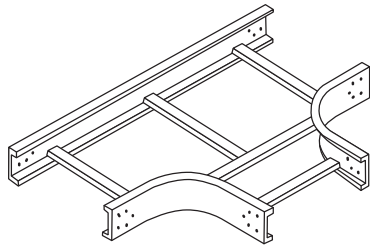
CATALOG NO.	W	R	A
VE9-153 -156 -159	150	300 600 900	425 725 1025
VE9-203 -206 -209	200	300 600 900	425 725 1025
VE9-303 -306 -309	300	300 600 900	425 725 1025
VE9-453 -456 -459	450	300 600 900	425 725 1025
VE9-603 -606 -609	500	300 600 900	425 725 1025
VE9-753 -756 -759	750	300 600 900	425 725 1025
VE9-903 -906 -909	900	300 600 900	425 725 1025
VE9-003 -006 -009	1000	300 600 900	425 725 1025

DY- Ladder Tray System

KS C 8464 인증번호 : 제02-2821호

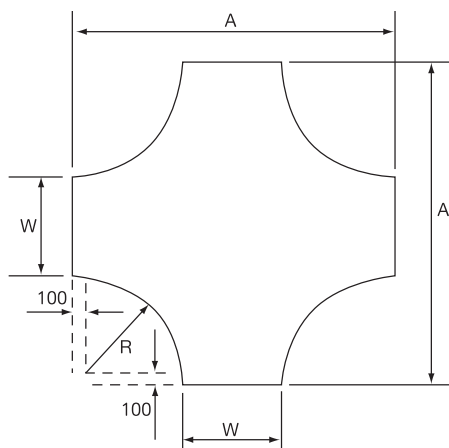
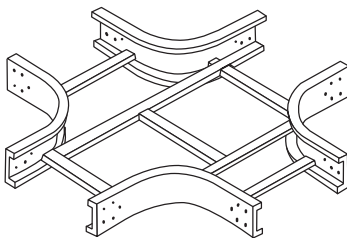


HORIZONTAL TEE



CATALOG NO.	W	R	A	B
HT-153 -156 -159	150	300 600 900	1000 1600 2200	575 875 1175
HT-203 -206 -209	200	300 600 900	1050 1650 2250	1625 925 1225
HT-303 -306 -309	300	300 600 900	1150 1750 2350	725 1025 1325
HT-453 -456 -459	450	300 600 900	1300 1900 2500	875 1175 1475
HT-603 -606 -609	500	300 600 900	1450 2050 2650	1025 1325 1625
HT-753 -756 -759	750	300 600 900	1600 2200 2800	1175 1475 1775
HT-903 -906 -909	900	300 600 900	1750 2350 2950	1325 1625 1925
HT-003 -006 -009	1000	300 600 900	1850 2450 3050	1425 1725 2025

HORIZONTAL CROSS



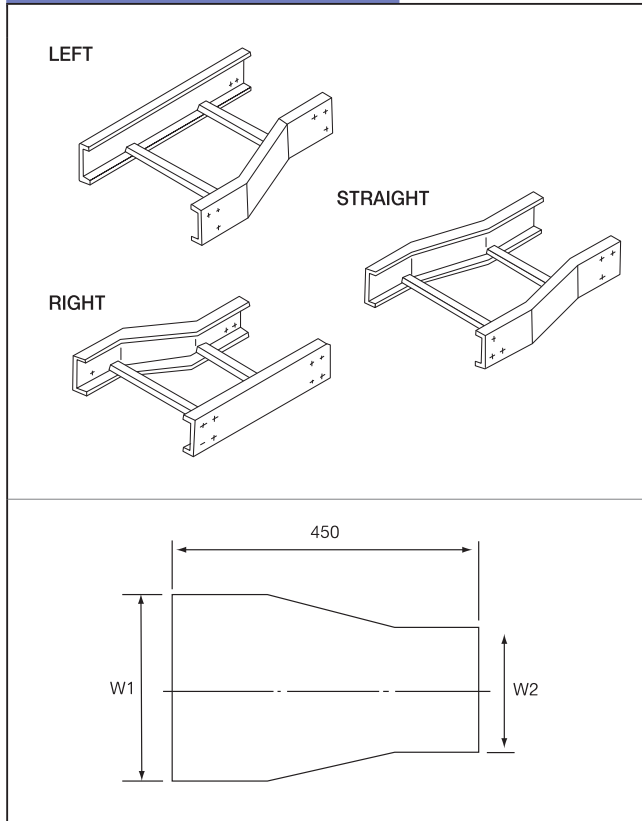
CATALOG NO.	W	R	A	B
HC-153 -156 -159	150	300 600 900	1000 1600 2200	1000 1600 2200
HC-203 -206 -209	200	300 600 900	1050 1650 2250	1050 1650 2250
HC-303 -306 -309	300	300 600 900	1150 1750 2350	1150 1750 2350
HC-453 -456 -459	450	300 600 900	1300 1900 2500	1300 1900 2500
HC-603 -606 -609	500	300 600 900	1450 2050 2650	1450 2050 2650
HC-753 -756 -759	750	300 600 900	1600 2200 2800	1600 2200 2800
HC-903 -906 -909	900	300 600 900	1750 2350 2950	1750 2350 2950
HC-003 -006 -009	1000	300 600 900	1850 2450 3050	1850 2450 3050

DY- Ladder Tray System

KS C 8464 인증번호 : 제02-2821호

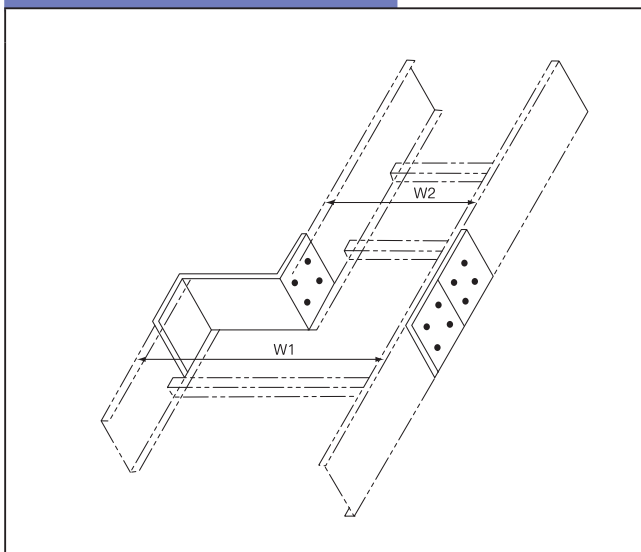


HORIZONTAL REDUCER



CATALOG NO.	W1	W2
SR-2015	200	150
SR-3015 -3020	300	150 200
SR-4515 -4520 -4530	450	150 200 300
SR-6015 -6020 -6030 -6045	600	150 200 300 450
SR-7515 -7520 -7530 -7545 -7560	750	150 200 300 450 600
SR-9015 -9020 -9030 -9045 -9060 -9070	900	150 200 300 450 600 750
SR-0015 -0020 -0030 -0045 -0060 -0075 -0090	1000	150 200 300 450 600 750 900

OFFSET REDUCER



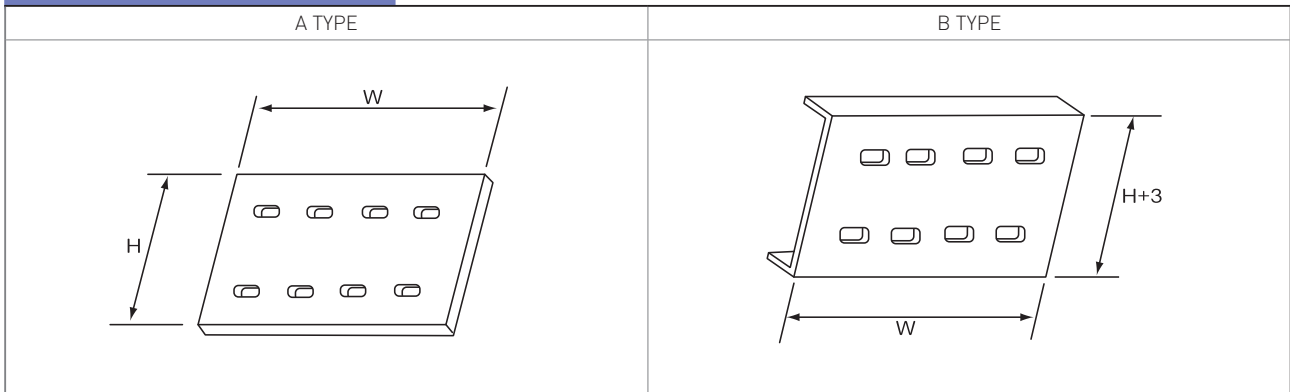
CATALOG NO.	W1	W2
OPL-2015	200	150
OPL-3015 -3020	300	150 200
OPL-4515 -4520 -4530	450	150 200 300
OPL-6015 -6020 -6030 -6045	600	150 200 300 450
OPL-7515 -7520 -7530 -7545 -7560	750	150 200 300 450 600
OPL-9015 -9020 -9030 -9045 -9060 -9070	900	150 200 300 450 600 750
OPL-0015 -0020 -0030 -0045 -0060 -0075 -0090	1000	150 200 300 450 600 750 900

DY- Connector

KS C 8464 인증번호 : 제02-2821호

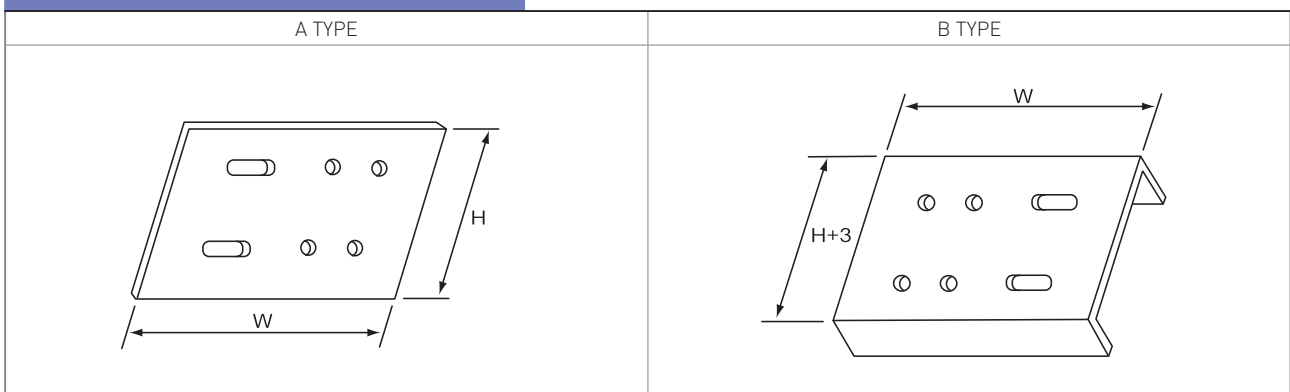


JOINT CONNECTOR



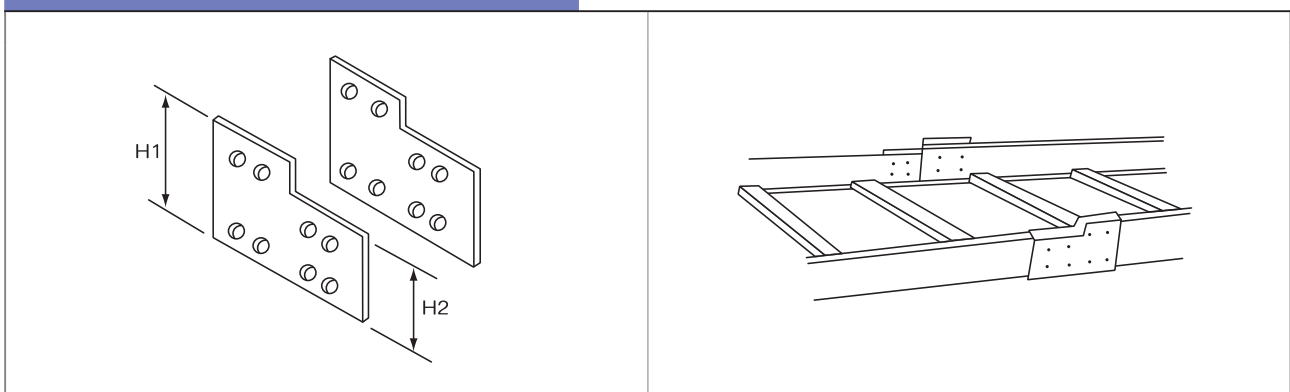
Separately order the necessary connectors, shank bolts and nuts. Additional connectors and fasteners for field cut sections must be ordered separately.

EXPANSION JOINT CONNECTOR



The expansion connectors used cable tray should be permitted free longitudinal movement at all support location between expansion connectors.

STEP DOWN SPLICE CONNECTOR



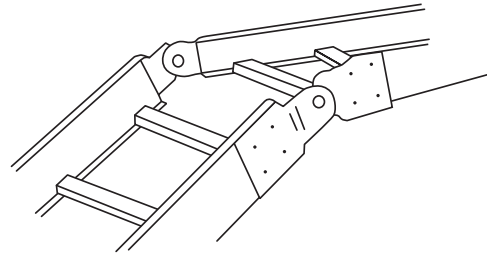
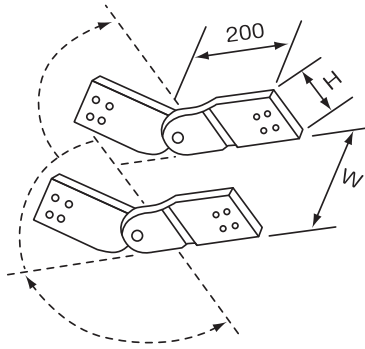
This plate is used for joining cable trays having different height.

DY- Connector

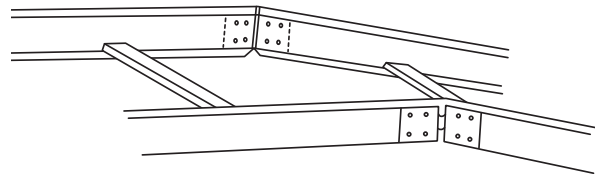
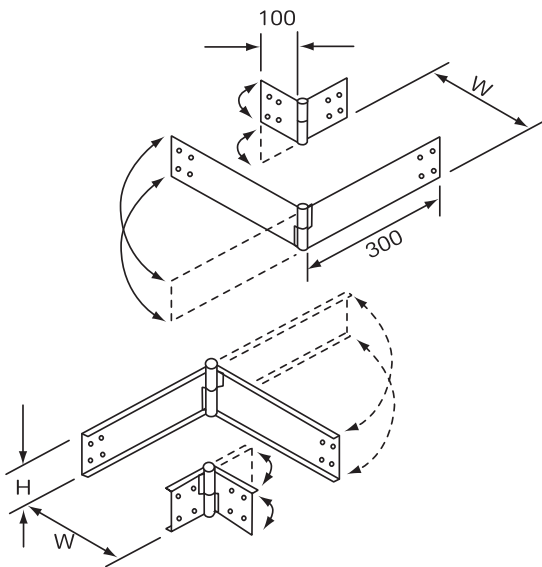
KS C 8464 인증번호 : 제02-2821호



VERTICAL ADJUSTABLE JOINT CONNECTOR



HORIZONTAL ADJUSTABLE JOINT CONNECTOR

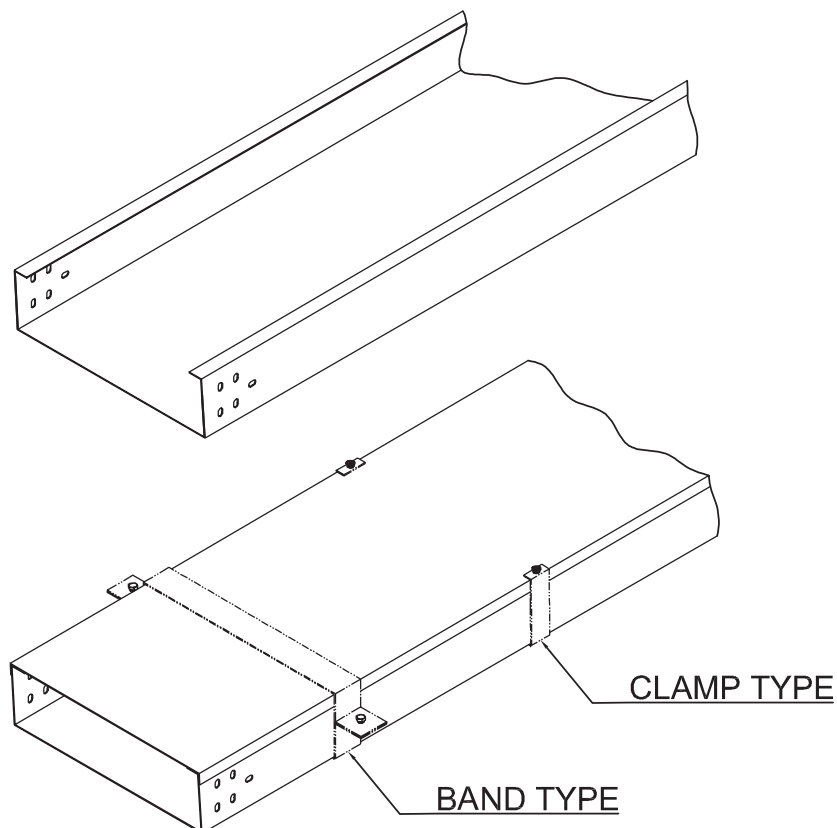


DY- Cable duct System



- Material : SS41, SS40 etc..
- Finishe : Hot dip galvanized KS C 3506, ASTM A123
- Length : 3M or 6M
- Option : Stainless Steel

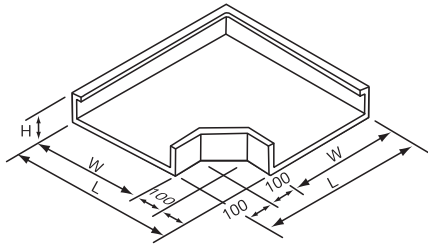
CATALOG NO.	CD-15	CD-20	CD-30	CD-45	CD-60	CD-75	CD-90
W	150	200	300	450	600	750	900



DY- Cable duct System



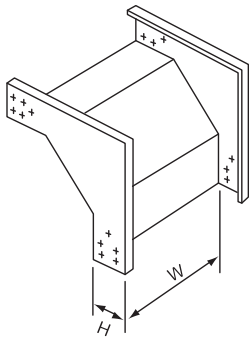
HORIZONTAL ELBOW



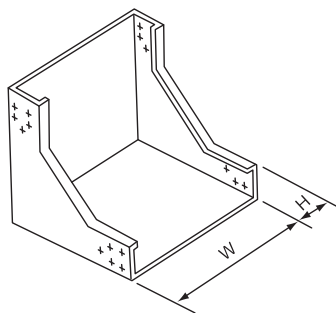
CATALOG NO.	W	H	DEGREE
DHE-15	150	100	90°, 60°, 45°, 30°
DHE-20	200	100	90°, 60°, 45°, 30°
DHE-30	300	100	90°, 60°, 45°, 30°
DHE-45	450	100	90°, 60°, 45°, 30°
DHE-50	500	100	90°, 60°, 45°, 30°
DHE-60	600	100	90°, 60°, 45°, 30°
DHE-75	750	100	90°, 60°, 45°, 30°
DHE-90	900	100	90°, 60°, 45°, 30°

VERTICAL ELBOW

OUT SIDE

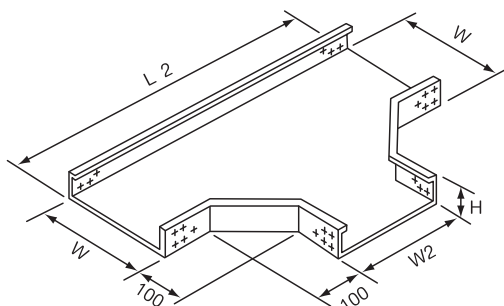


IN SIDE



CATALOG NO.	W	H	TYPE
DVE-15	150	100	IN
DVE-20	200	100	OUT
DVE-30	300	100	IN
DVE-45	450	100	OUT
DVE-50	500	100	IN
DVE-60	600	100	OUT
DVE-75	750	100	IN
DVE-90	900	100	OUT

HORIZONTAL TEE

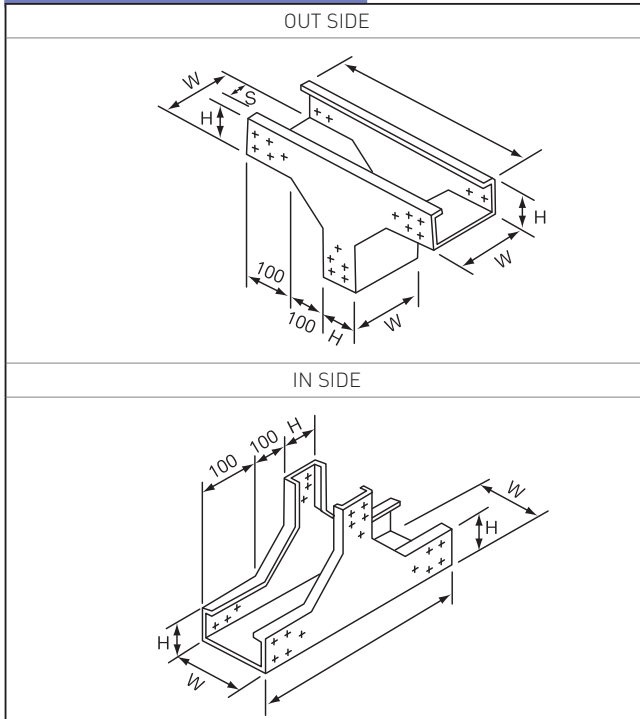


CATALOG NO.	W1	W2	H1
DHT-1515	150	150	100
DHT-2020	200	200	100
DHT-3030	300	300	100
DHT-4545	450	450	100
DHT-5050	500	500	100
DHT-6060	600	600	100
DHT-7575	750	750	100
DHT-9090	900	900	100

DY- Cable duct System

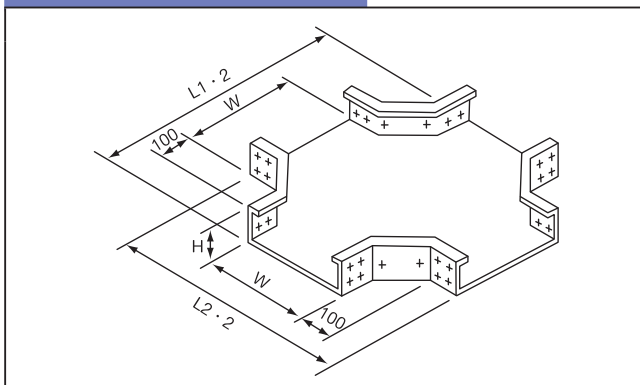


VERTICAL TEE



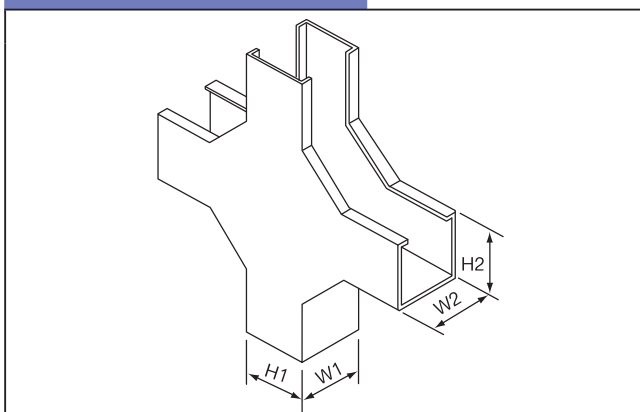
CATALOG NO.	W	H	TYPE
DVT-15	150	100	IN
DVT-20	200	100	OUT
DVT-30	300	100	IN
DVT-45	450	100	OUT
DVT-50	500	100	IN
DVT-60	600	100	OUT
DVT-75	750	100	IN
DVT-90	900	100	OUT

HORIZONTAL CROSS



CATALOG NO.	W1	W2	H1	H2
DHC-1515	150	150	100	100
DHC-2020	200	200	100	100
DHC-3030	300	300	100	100
DHC-4545	450	450	100	100
DHC-6060	600	600	100	100
DHC-7575	750	750	100	100
DVC-9090	900	900	100	100

VERTICAL CROSS



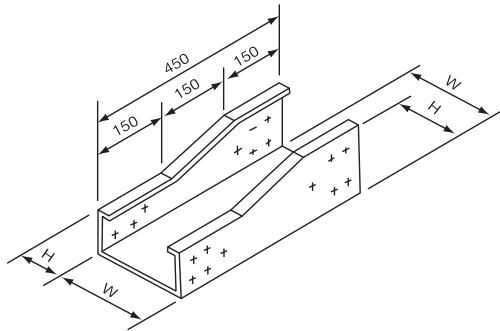
CATALOG NO.	W1	W2	H1	H2
DVC-1515	150	150	100	100
DVC-2020	200	200	100	100
DVC-3030	300	300	100	100
DVC-4545	450	450	100	100
DVC-5050	500	500	100	100
DVC-6060	600	600	100	100
DVC-7575	750	750	100	100
DVC-9090	900	900	100	100

DY- Cable duct System

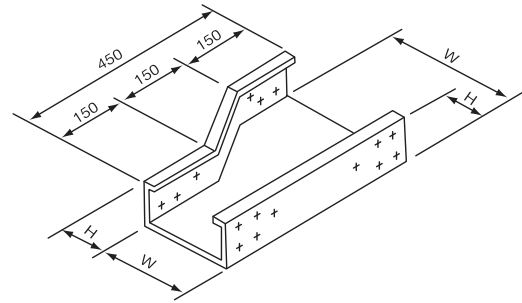


REDUCER

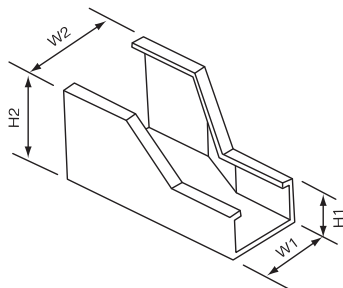
A TYPE



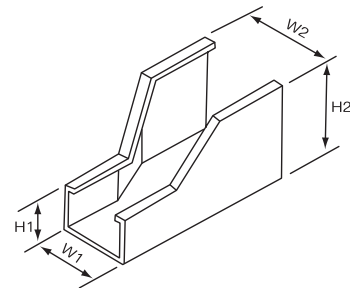
B TYPE



C TYPE

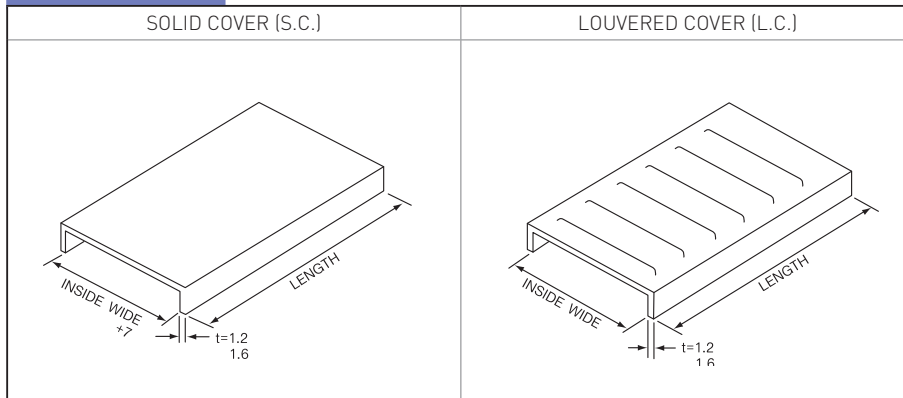


D TYPE



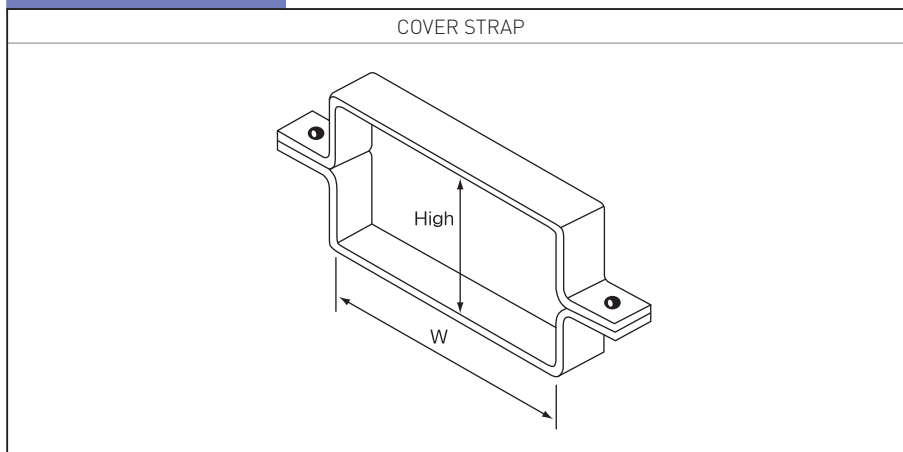
CATALOG NO.	W1	W2	H1	H2
DR-20	200	150	100	150
DR-30	300	200	100	150
DR-45	450	300	100	150
DR-60	600	450	100	150
DR-75	750	600	100	150
DR-90	900	750	100	150

COVER



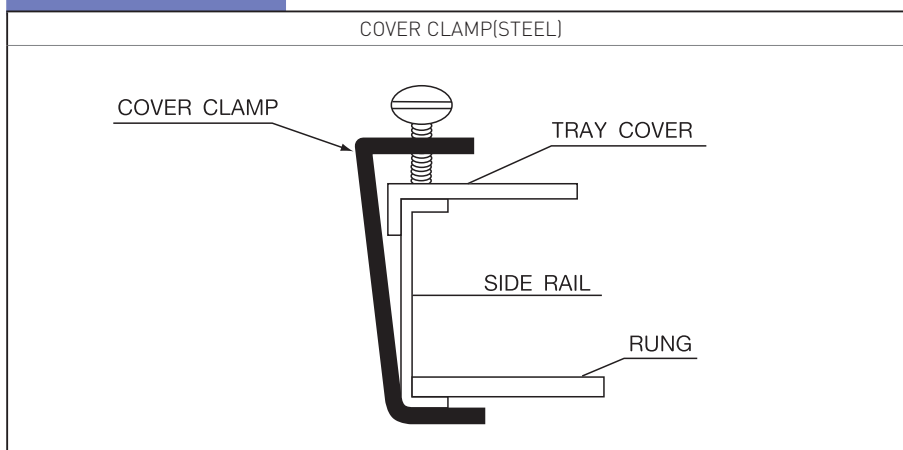
IN SIDE WIDE	CATALOG NO.		
	1.2T	1.6T	2T
150	SC-15	SC-15	SC-15
200	SC-20	SC-20	SC-20
300	SC-30	SC-30	SC-30
450	SC-45	SC-45	SC-45
600	SC-60	SC-60	SC-60
750	SC-75	SC-75	SC-75
900	SC-90	SC-90	SC-90
1000	SC-100	SC-100	SC-100

COVER BAND



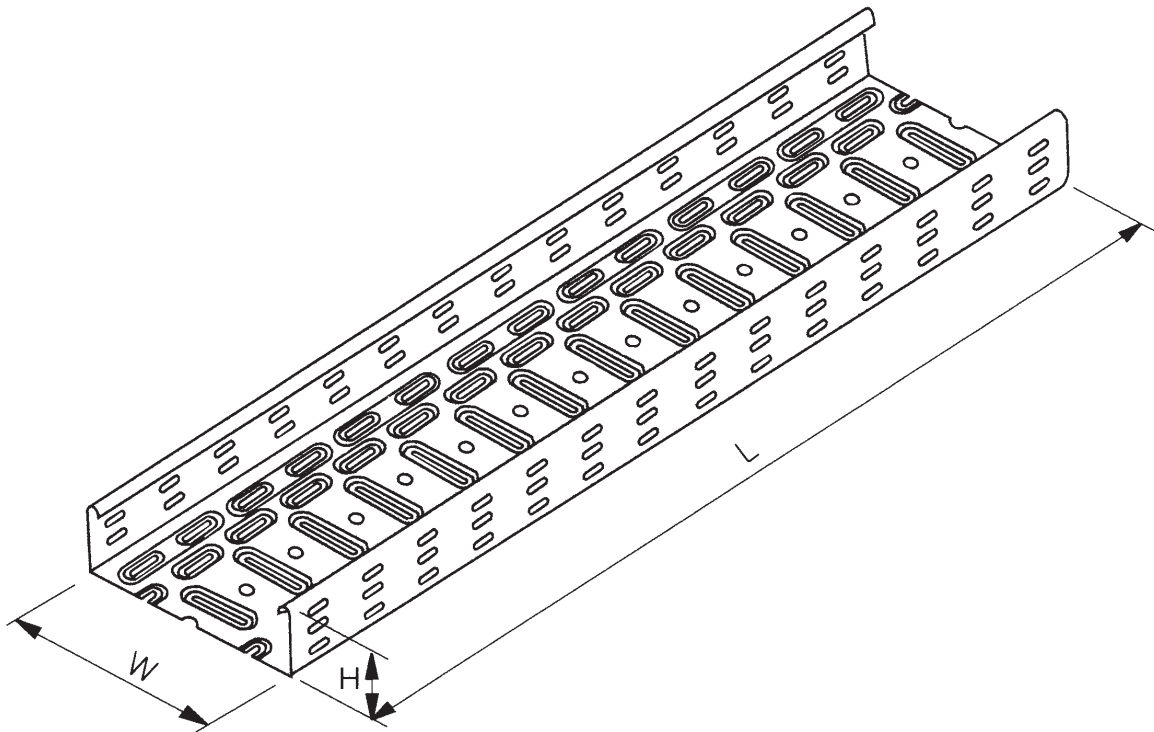
IN SIDE	CATALOG NO.
	2.6T
150	CC-15
200	CC-20
300	CC-30
450	CC-45
600	CC-60
750	CC-75
900	CC-90
1000	CC-100

COVER CLAMP



DY- Perforated Type Cable Tray System

- Material : SS41, SS40 etc..
- Finish : Hot dip galvanized KS C 3506, ASTM A123
- Length : 3M or 6M
- Option : Stainless Steel



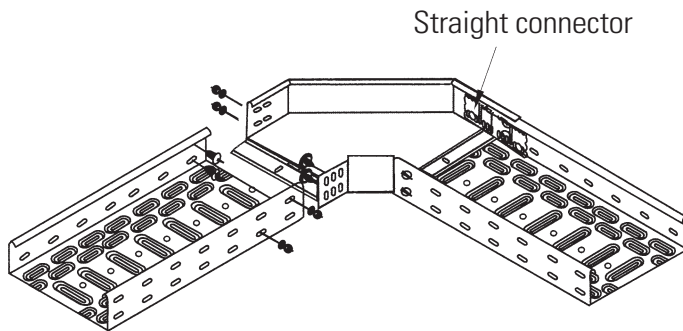
단위 : mm

호칭	각 부의 지수		
	W	L	H
150	150	3000	35, 60, 75, 100, 150
200	200	3000	
300	300	3000	
400	400	3000	
500	500	3000	
600	600	3000	

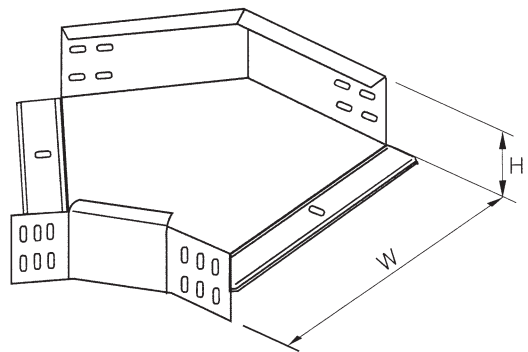
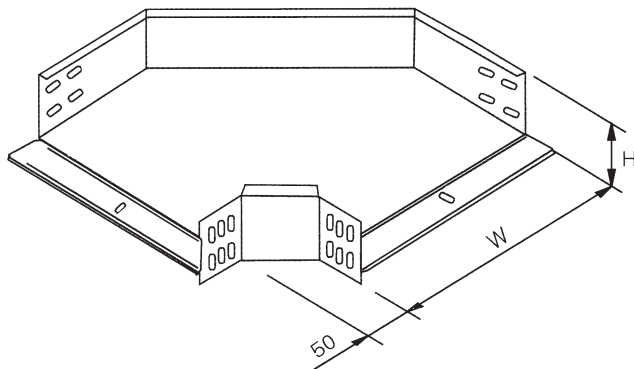
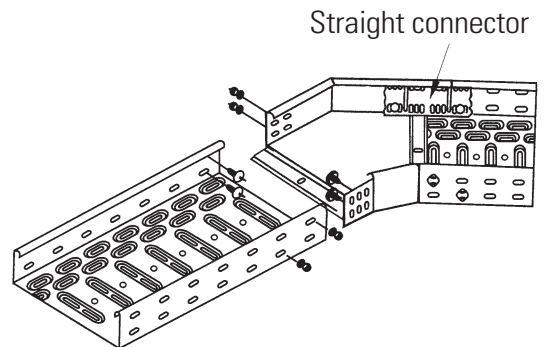
DY- Perforated Type Cable Tray System

HORIZONTAL ELBOW

90°



45°

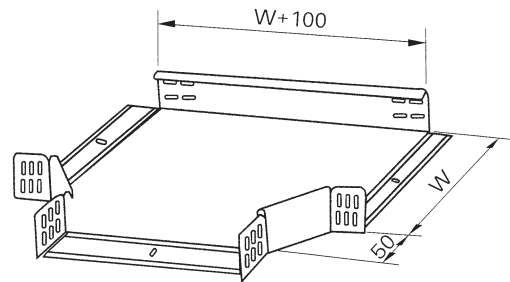
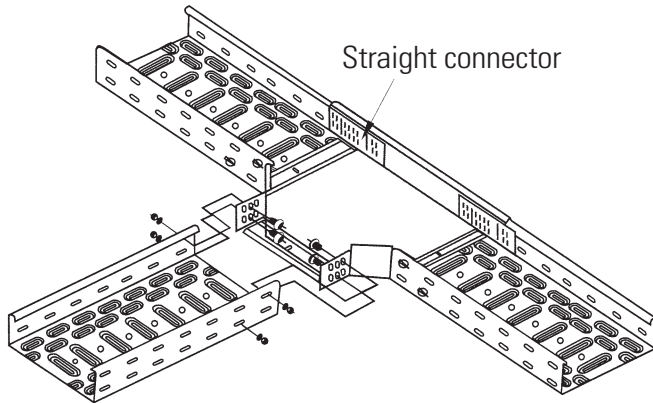


단위 : mm

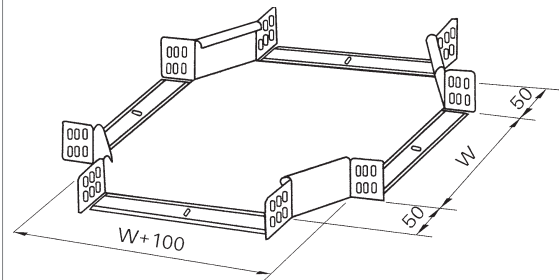
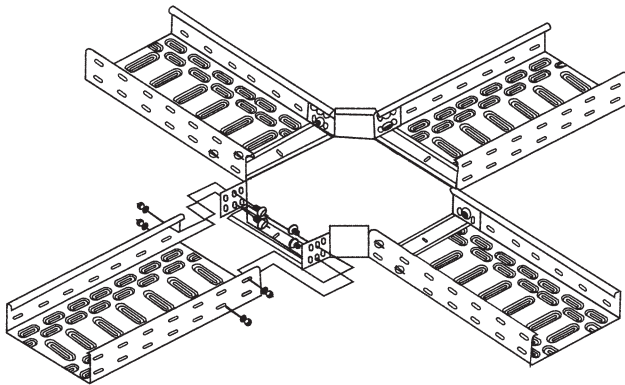
W	H
150	35, 60, 75, 100, 150
200	
300	
400	
500	
600	

DY- Perforated Type Cable Tray System

HORIZONTAL TEE



HORIZONTAL CROSS

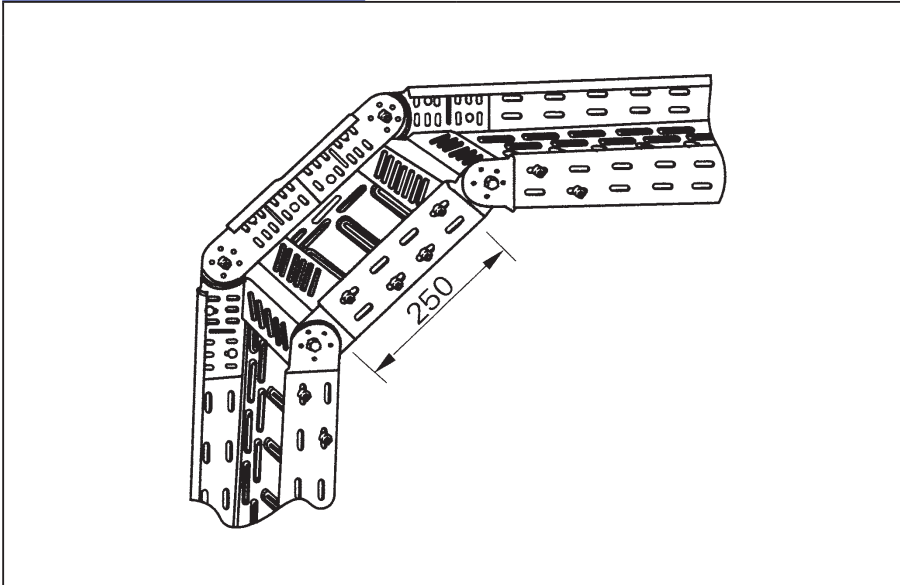


단위 : mm

W	H
150	35, 60, 75, 100, 150
200	
300	
400	
500	
600	

DY- Perforated Type Cable Tray System

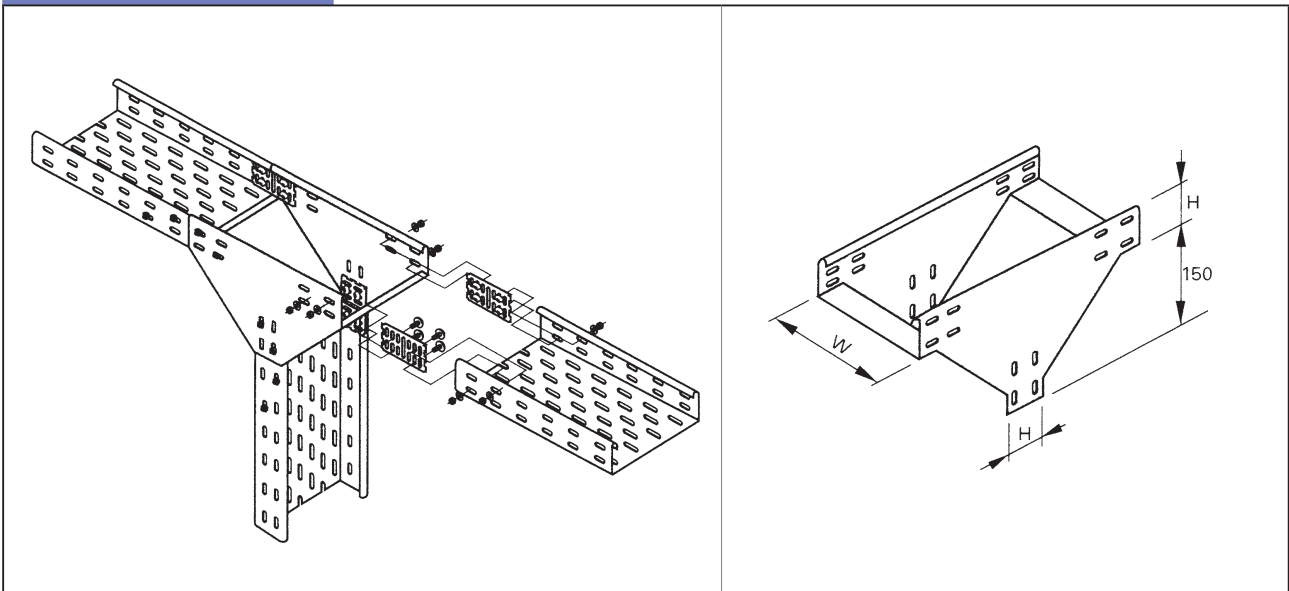
ADJ. VERTICAL BAND



단위 : mm

W	H
150	35, 60, 75, 100, 150
200	
300	
400	
500	
600	

VERTICAL BAND



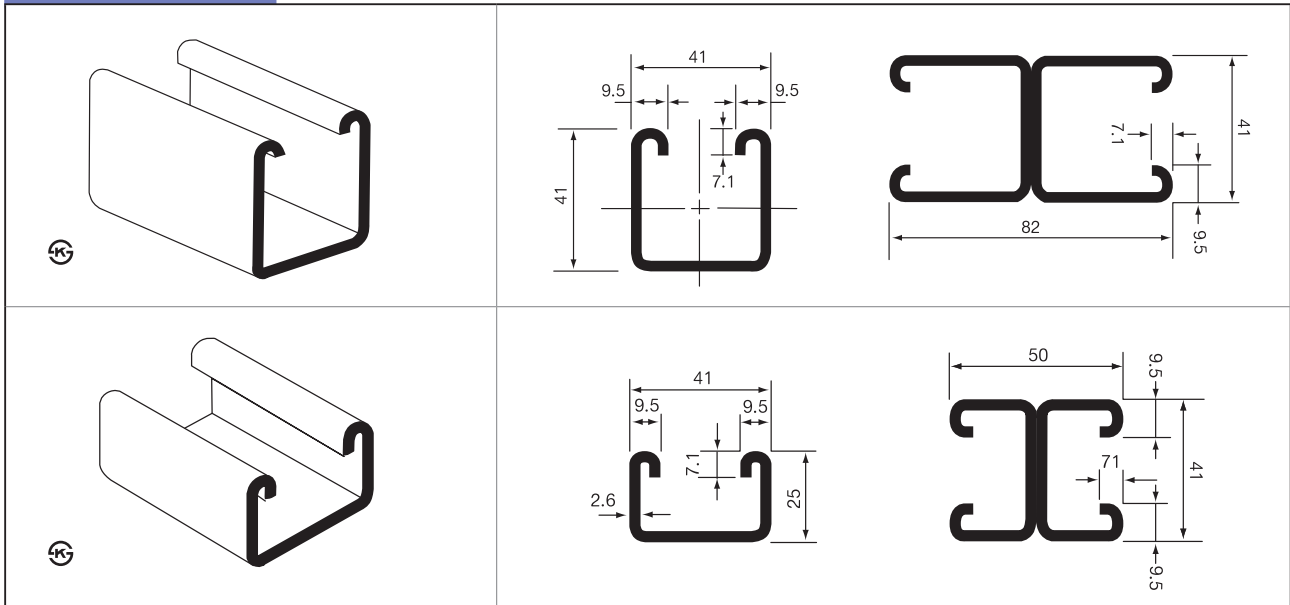
단위 : mm

W	H
150	35, 60, 75, 100, 150
200	
300	
400	
500	
600	

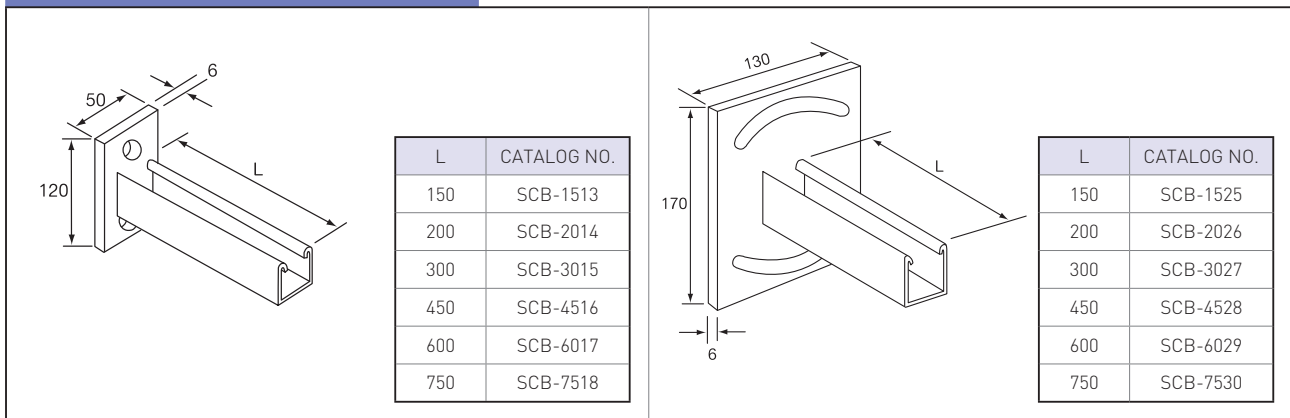
DY- Channel & Bracket

KS C 8460 승인번호 : 00-1192

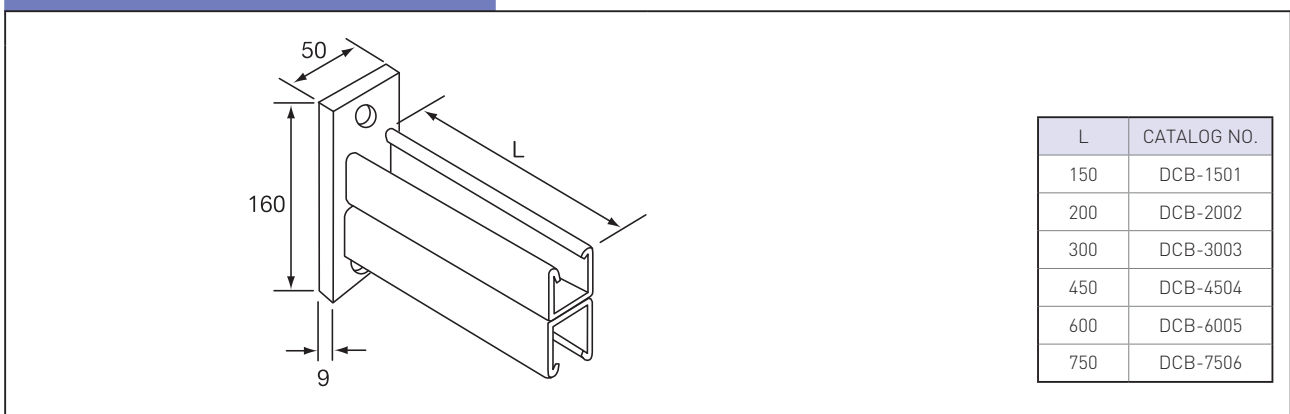
CHANNEL



SINGLE CHANNEL BRACKET

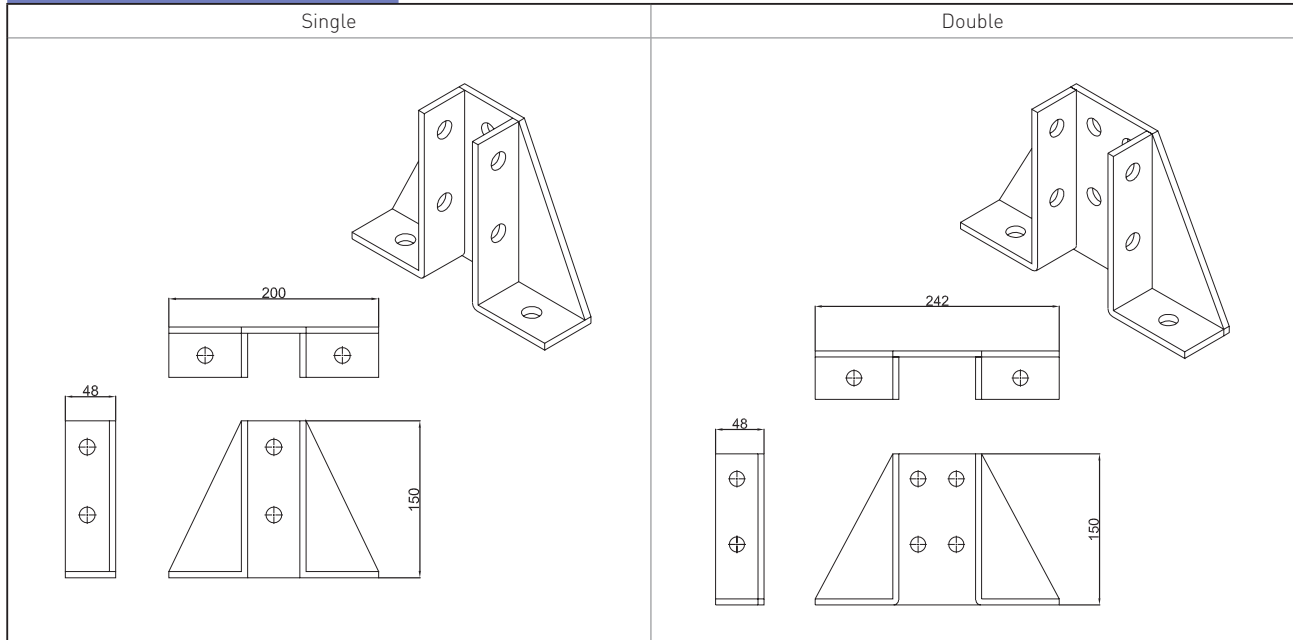


DOUBLE CHANNEL BRACKET

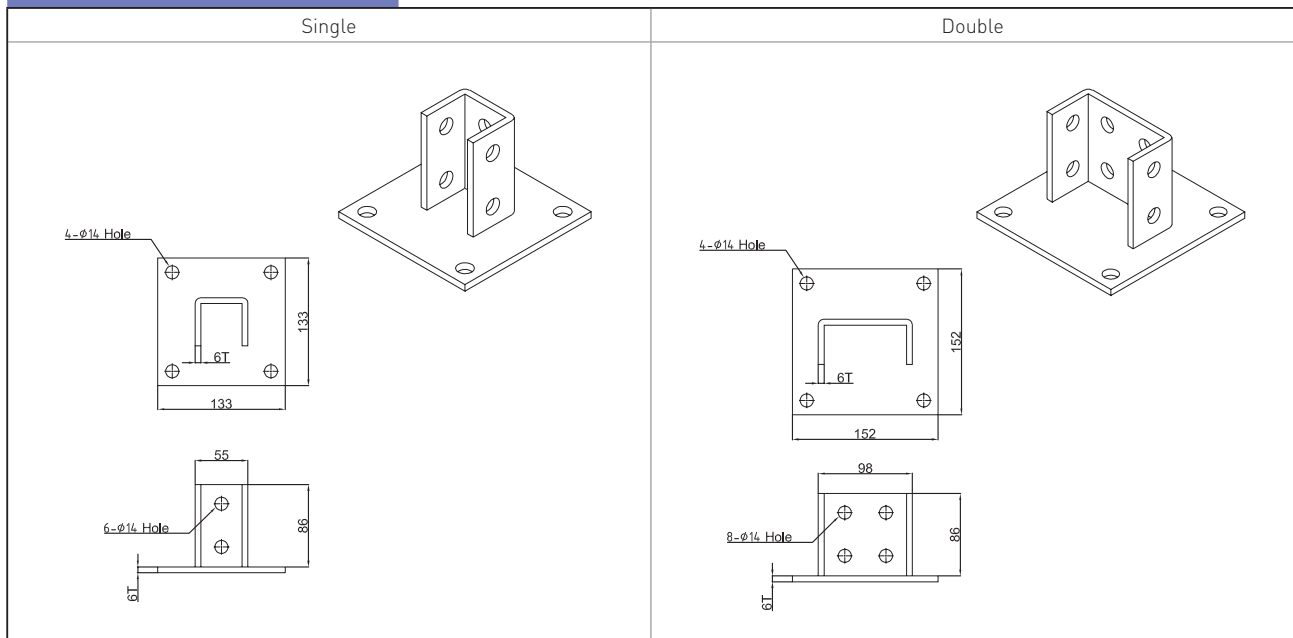


DY- Channel & Accessories

GUSSETED BRACKET



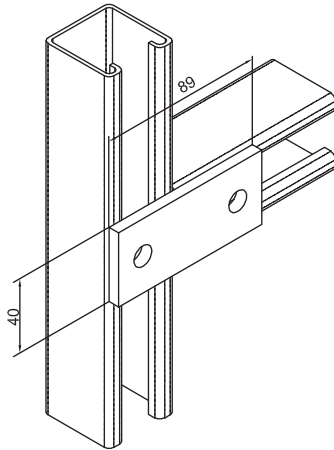
POST BASE



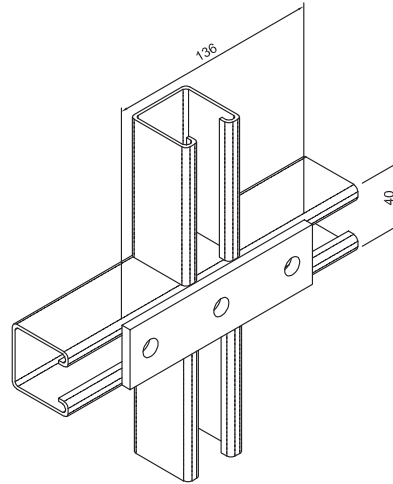
DY- Channel & Accessories

SPLICE PLATE

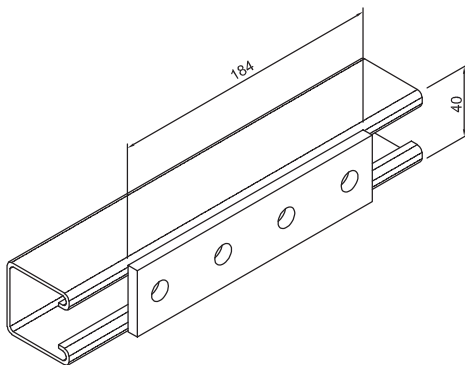
2-Hole Splice Plate



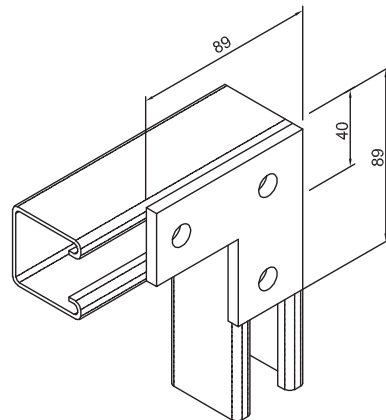
3-Hole Splice Plate



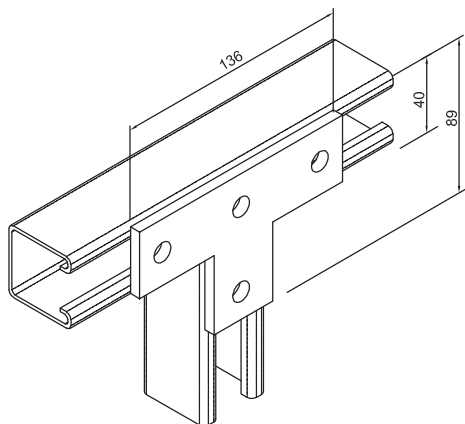
4-Hole Splice Plate



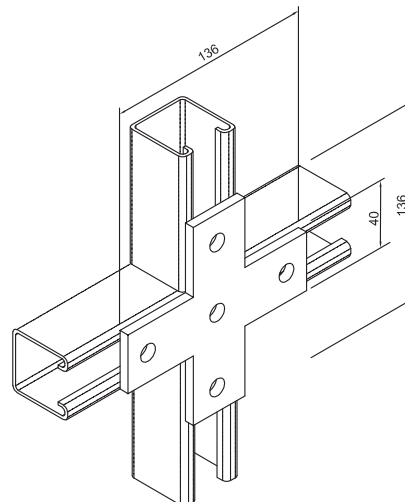
3-Hole Angle Splice Plate



4-Hole Tee Splice Plate

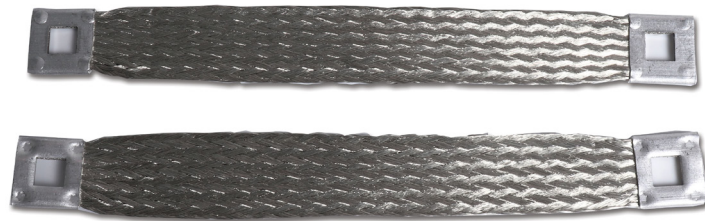
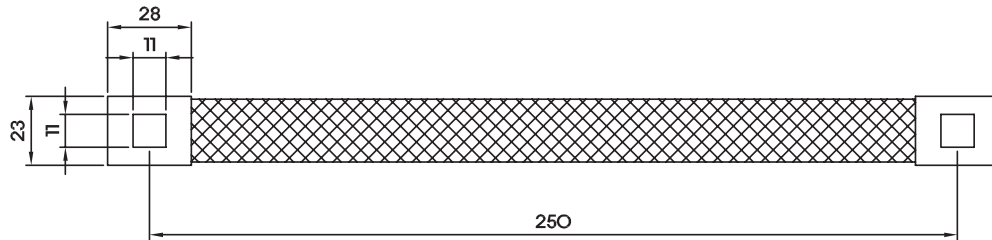


5-Hole Cross Splice Plate

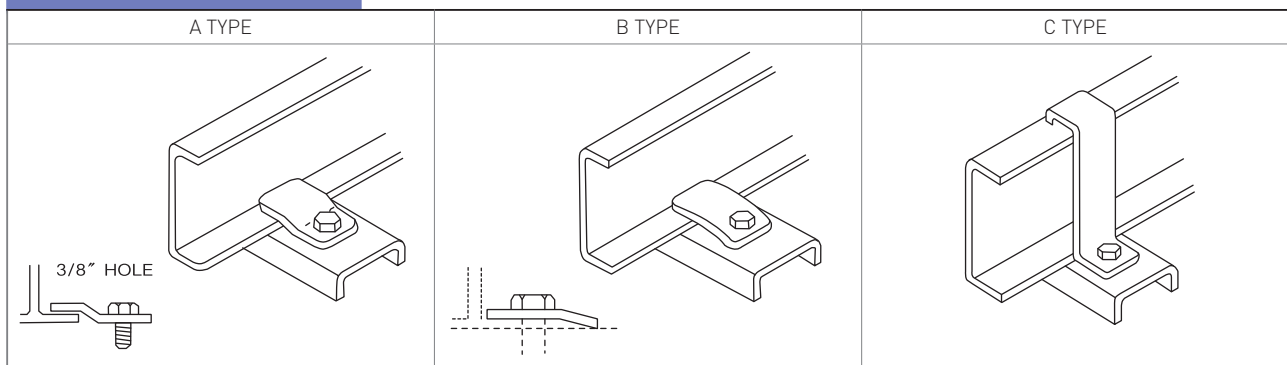


DY- Accessories

BONDING JUMPER



HOLD-DOWN CLAMP



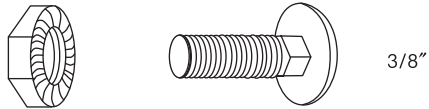
HOLD-DOWN CLAMP(New Style)



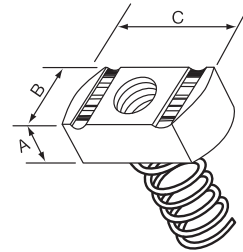
- 작업의 편의성과 더불어 보다 더 강력한 클램핑으로 안전하고 안정적인 사용이 가능하게 새롭게 출시된 홀다운 클램프입니다.
- 홀다운 클램프는 찬셀행거나 추레이 등의 프레임에 이용한 설비 작업시 긴요하게 사용되는 제품입니다.

DY- Accessories

SHANK BOLT & NUT



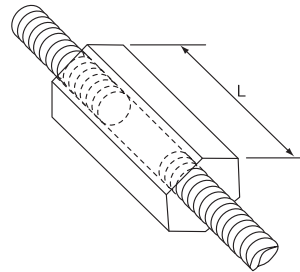
CHANNEL NUT WITH SPRING



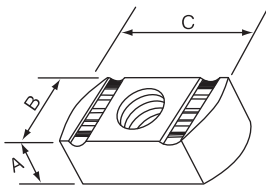
STEEL THREADED ROD



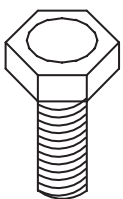
HEX ROD COUPLER



CHANNEL NUT WITH OUT SPRING



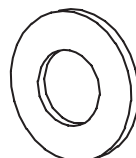
HEX HEAD BOLT



PAN HEAD BOLT



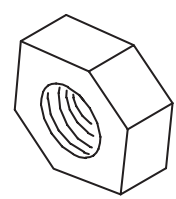
HEX HEAD NUT



FLAT WASHER

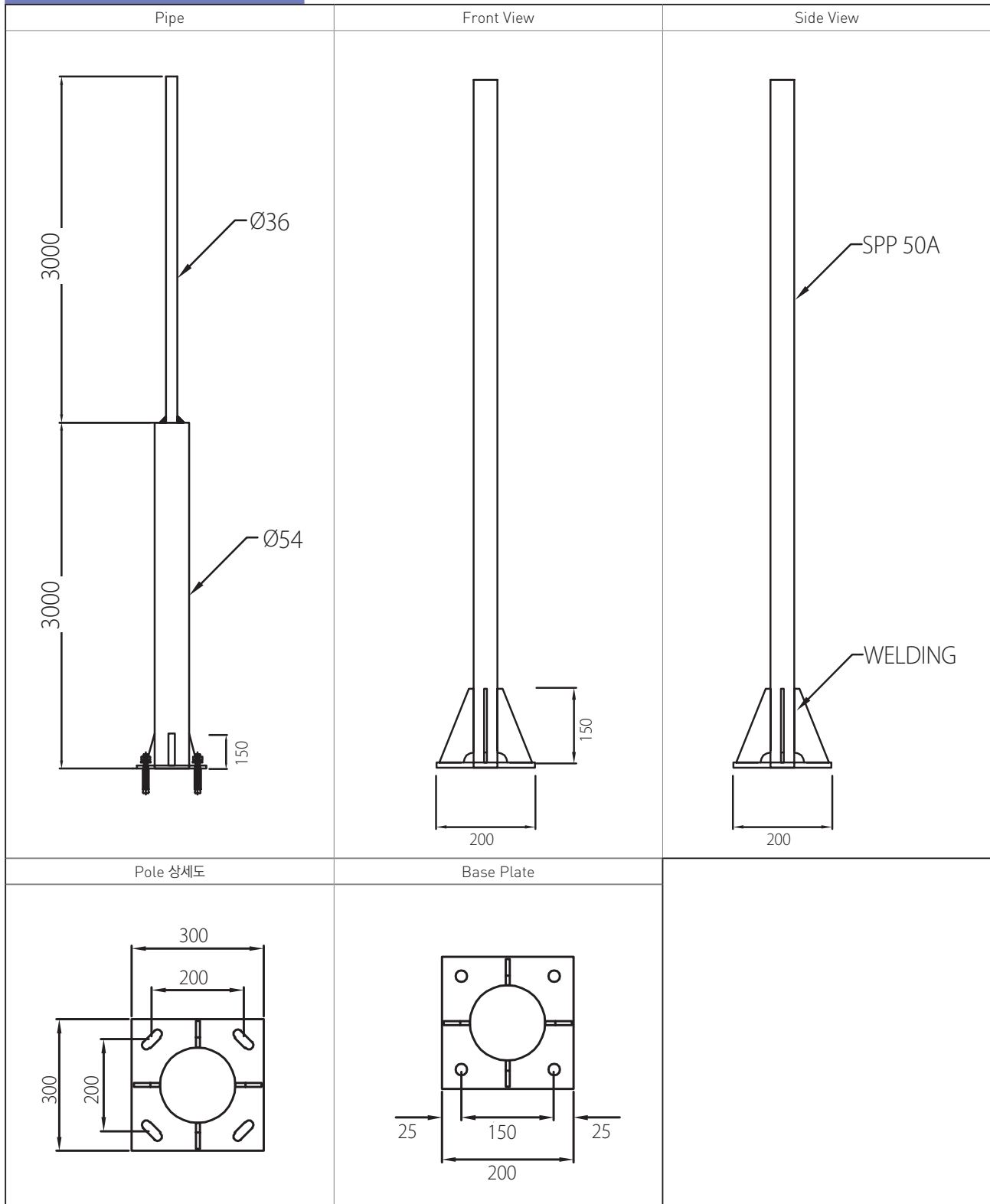


LOCK WASHER



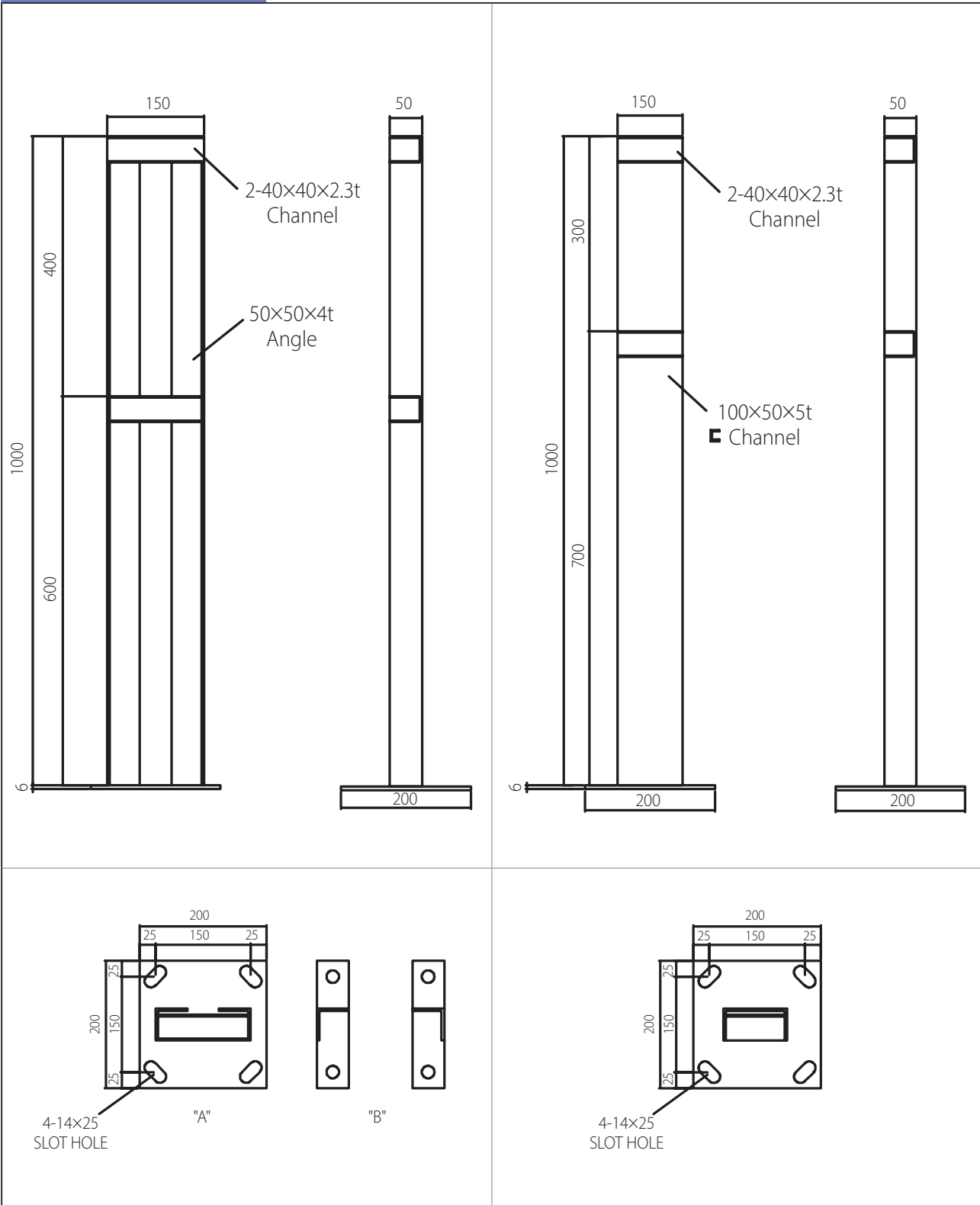
DY- Stanchion with Fixed Base

PIPE & POLE



DY- Motor Support

MOTOR SUPPORT





MEMO

Handwriting practice area consisting of 20 horizontal dotted lines.



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