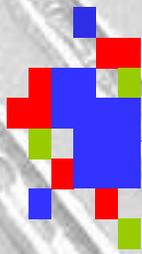


ALAMAFROZE

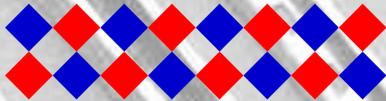




ALAMAFROZE.CO

Electrical & Instrument Equipment

 Email : info@alamafroze.com



 Tel :
[+98 21 77382672](tel:+982177382672)

 Fax :
[+98 21 77290934](tel:+982177290934)



 Address : Apt # 6 . No. 2. Tajary St. (No.218) . Bagheri Ave , Tehran Pars ,
Tehran /Iran

THE METHOD OF WRITING PRODUCT CODE

The present catalogue is for illustrating the related product from a statement that consists of two parts and they are separated from each other by the sign -. The first part of this phrase contains abbreviations for specifying the name of factory, the material of product, thickness and the type of product. The second part contains the technical information about the product. The method to code each product is presented in its related page. Here follows the required explanations:

Example:

Code Text

A m t p - H W1 W2 W3 R1 R2 D S d

1. The letter A indicates the name of the company, ALAMAFROZE that is consistent in all codes.

Code Text

A

2. The letter m is an abbreviation for Material and the code of product is specified from the following table.

Code Text

A m

MATERIAL	CODE
Hot Dip Galvanized	HG
Stainless Steel 316L	SL
Stainless Steel 316	S6
Stainless Steel 304	S4
Sheet Steel Galvanized	SG

3. The letter t represents the thickness and standard thickness of each product is presented in a table.

Code Text

A m t

4. Each product is specified with a combination of one letter that represents its family and a number that represents its rank. Code of each product is illustrated in details on its related page.

Code Text

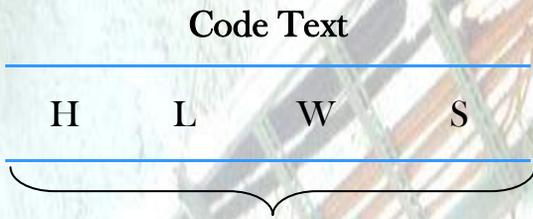
A m t P

Product code	Product family
T	TRAY
C	COVER
L	LADDER
S	SUPPORT
J	JOINT

No.	PRODUCT NAME	PRODUCT CODE
TRAY		
1	Cable Tray Straight	T1
2	Cable Tray Horizontal Elbow	T2
3	Cable Tray Vertical Inside	T3
4	Cable Tray Vertical Outside	T4
5	Cable Tray Equal Cross Connection	T5
6	Cable Tray Unequal Cross Connection	T6
7	Cable Tray Equal Tee Connection	T7
8	Cable Tray Unequal Tee Connection	T8
9	Cable Tray Reducer	T9
10	Reducer Cable Tray Right Hand	T10
11	Reducer Cable Tray Left Hand	T11
LADDER		
12	Cable Ladder Straight	C1
13	Cable Ladder Horizontal Elbow	C2
14	Cable Ladder Vertical Inside	C3
15	Cable Ladder Vertical Outside	C4
16	Cable Ladder Equal Cross Connection	C5
17	Cable Ladder Unequal Cross Connection	C6
18	Cable Ladder Equal Tee Connection	C7
19	Cable Ladder Unequal Tee Connection	C8
20	Cable Ladder Reducer	C9
21	Cable Ladder Right Hand Reducer	C10
22	Cable Ladder Left Hand Reducer	C11
COVER		
23	Cover For Cable Tray & Ladder Straight	L1
24	Cover For Cable Tray & Ladder Horizontal Elbow	L2
25	Cover For Cable Tray & Ladder Vertical Inside	L3
26	Cover For Cable Tray & Ladder Vertical Outside	L4

27	Cover For Cable Tray & Ladder Equal Cross Connection	L5
28	Cover For Cable Tray & Ladder Unequal Cross Connection	L6
29	Cover For Cable Tray & Ladder Equal Tee Connection	L7
30	Cover For Cable Tray & Ladder Unequal Tee Connection	L8
31	Cover For Cable Tray & Ladder Reducer	L9
32	Cover For Cable Tray & Right Hand Ladder Reducer	L10
33	Cover For Cable Tray & Left Hand Ladder Reducer	L11
SUPPORT		
34	L Type Support	S1
35	U Type Support	S2
36	T Type Support	S3
37	Bracket	S4
38	Wall Bracket	S5
39	Single Channel 41*41	S6
40	Single Channel 41*21	S7
41	Double Channel 41*82	S8
42	Double Channel 41*42	S9
JOINT		
43	Joint	J1
44	Cover Clamp	J2
45	Divider	J3

5. In the second section of the formula, the following abbreviation symbols are used .



ABBREVIATION CODE	CHARACTERISTIC
W	Width
H	Height
L	Length
R	Radius
D	Degree
S	Stair
d	Distance

5-1 Distance refers to the distance between the stairs of the ladder that is used only for straight ladders.

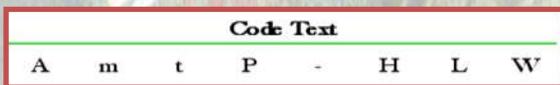
5-2 Stair refers to the model of ladder stairs and connections that are of two models, namely: 21*41 and 18*41.

For entering the product pursue the following stages: This product is a tray with the following characteristics:

WIDTH 300 mm , HEIGHT 100 mm , THICKNESS 2 mm , LENGTH 3000mm

Note 1: Please complete the necessary properties in the code respectively. For example

In the code below, at first we enter height (H), then length (L) and finally width (W) of tray.



PRODUCT: CABLE TRAY

Example

1-The push of cable tray floor in a way is designed that it has installation ability on the bracket in every point.

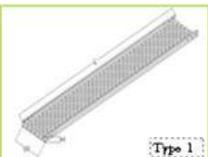
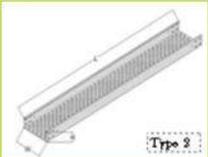
2-Cable trays of type 1 has a bead toward inside but cable trays of type 2 has a bead toward inside and a bead toward outward.

3-Sheet thickness of 1.5 mm is recommended for cable trays with lower widths than 200 mm.

4-Sheet thickness of 2 mm is recommended for cable trays with higher widths than 200 mm.

5-Sheet thickness of 2.5 mm is recommended for cable trays with higher widths than 700 mm.

6-The length of cable tray is recommended 2000 mm but it can be produced until 3000 mm.

Code Text

A m t T1 - H L W

Table Code Number				
Code	Thickness	Width	Height	Length
0	1	100	50	2000
1	1.25	150	80	2500
2	1.5	200	100	3000
3	2	300	150	
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

ALAMAFROZE

1. You must go to the tray introduction part of this catalogue (Page 9).

2. The formula of this product is as follows.

3. Using the table , the code is completed

Table Code Number				
Code	Thickness	Width	Height	Length
0	1	100	50	2000
1	1.25	150	80	2500
2	1.5	200	100	3000
3	2	300	150	
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

4. The first section of this formula will be completed to this form.

A	m	t	P
A	HG	3	T1

CABLE TRAY, HOT DIP GALVANIZED, THICKNESS 2 mm

Table Code Number				
Code	Thickness	Width	Height	Length
0	1	100	50	2000
1	1.25	150	80	2500
2	1.5	200	100	3000
3	2	300	150	
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

5. The second section of this formula will be completed with the following format.

H	L	W
2	2	3

WIDTH 300 mm , HEIGHT 100 mm , THICKNESS 2 mm , LENGTH 3000mm

Table Code Number				
Code	Thickness	Width	Height	Length
0	1	100	50	2000
1	1.25	150	80	2500
2	1.5	200	100	3000
3	2	300	150	
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

Finally ,the product formula will be in the following form.

A	m	t	P	-	H	L	W
A	HG	3	T1	-	2	2	3



CABLE TRAY INTRODUCTION



PRODUCT : CABLE TRAY STRAIGHT



Straight

1-The punch of cable tray floor is designed so it can be installed on the bracket in every point.

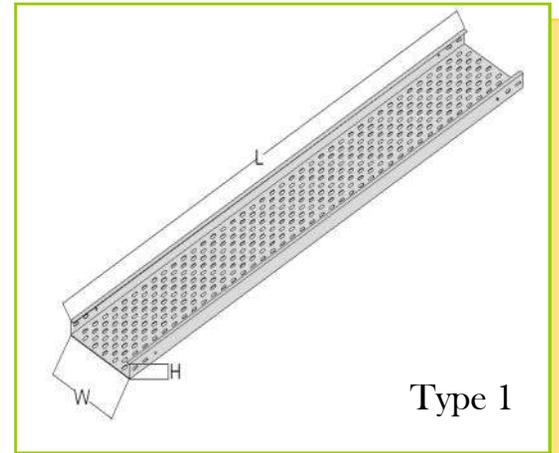
2-Cable trays of type 1 has a bend toward inside but cable trays of type 2 has a bend toward inside and a bend downward.

3 -Sheet thickness of 1.5 mm is recommended for cable trays with lower widths than 200 mm.

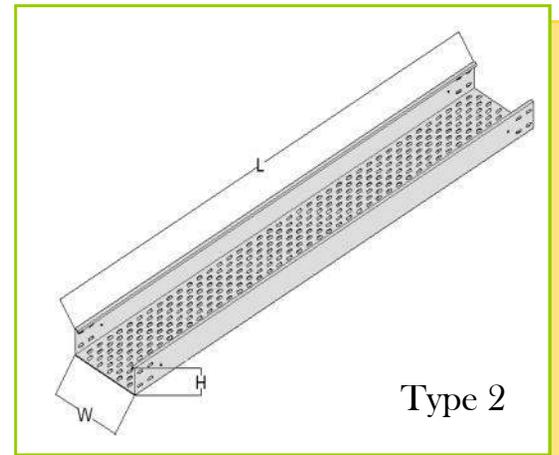
4 -Sheet thickness of 2 mm is recommended for cable trays with widths higher than 200 mm.

5-Sheet thickness of 2.5 mm is recommended for cable trays with higher widths than 700 mm.

6 -The length of cable tray is recommended to be 2000 mm but it can be produced until 3000 mm.



Type 1



Type 2

Code Text

A m t P - H L W

 Code Number Table				
Code	Thickness	Width	Height	Length
0	1	100	50	2000
1	1.25	150	80	2500
2	1.5	200	100	3000
3	2	300	150	
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

PRODUCT : CABLE TRAY HORIZONTAL ELBOW



Connection

1-The radius is designed based on the cable tray bending radius.

2-Round punch on the wall will be used for earth or cover clamp.

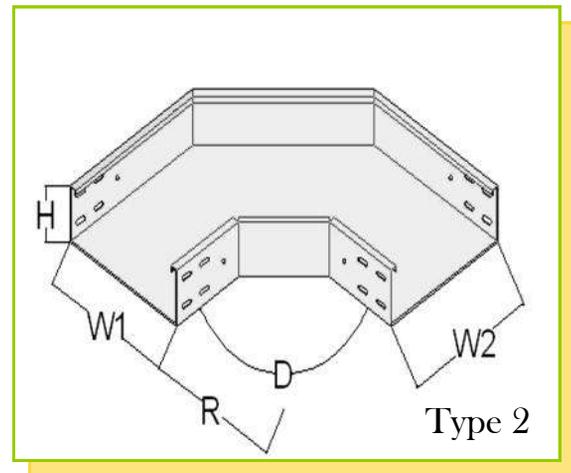
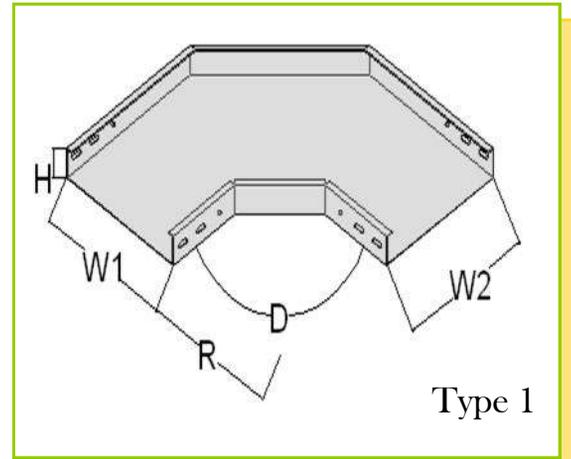
3-Sheet thickness of 1.5 mm is recommended for the widths lower than 200 mm. (hot galvanization)

4-Sheet thickness of 2 mm is recommended for widths higher than 200 mm to 700 mm. (hot galvanization)

5-For galvanized sheets and stainless steel of widths (w_1) lower than 400 mm, thickness of 1.5 mm is recommended.

6-For galvanized sheets and stainless steel of widths (w_1) higher than 400 mm, thickness of 2 mm is recommended.

7-Punching of the wall is designed so it can be installed in any height.



Code Text

A m t T_2 - H W_1 W_2 R D



Code Number Table

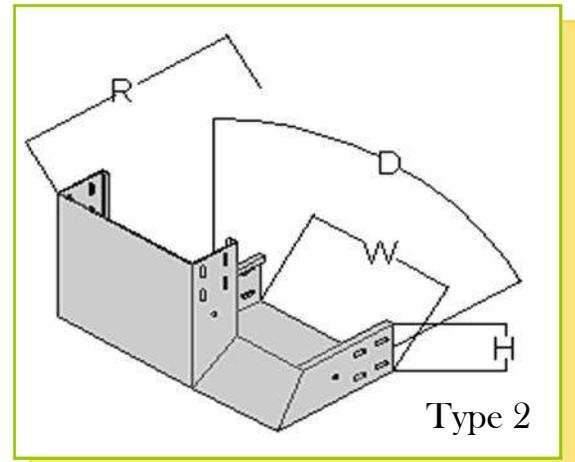
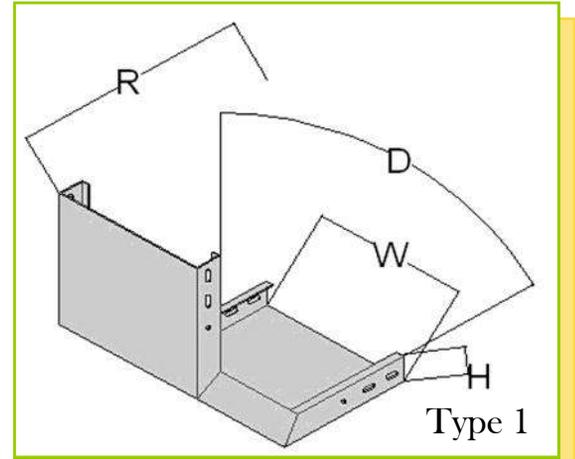
Code	Thickness	Width	Height	Radius	Degree
0	1	100	50	300	30
1	1.25	150	80	600	45
2	1.5	200	100		60
3	2	300	150		90
4	2.5	400			
5		450			
6		600			
7		750			
8		900			

PRODUCT : CABLE TRAY VERTICAL INSIDE



Connection

- 1-The radius is designed based on the cable tray bending radius.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-Sheet thickness of 1.5 mm is recommended for widths lower than 200 mm. (hot galvanization)
- 4-Sheet thickness of 2 mm is recommended for widths higher than 200 mm to 700 mm. (hot galvanization)
- 5-For galvanized sheets and stainless steel of widths lower (w_1) than 400 mm, thickness of 1.5 mm is recommended.
- 6-For galvanized sheets and stainless steel of widths higher (w_1) than 400 mm, thickness of 2 mm is recommended.
- 7-Punching of the wall is designed so it can be installed in any height.



Code Text

A m t T3 - H W R D



Code Number Table

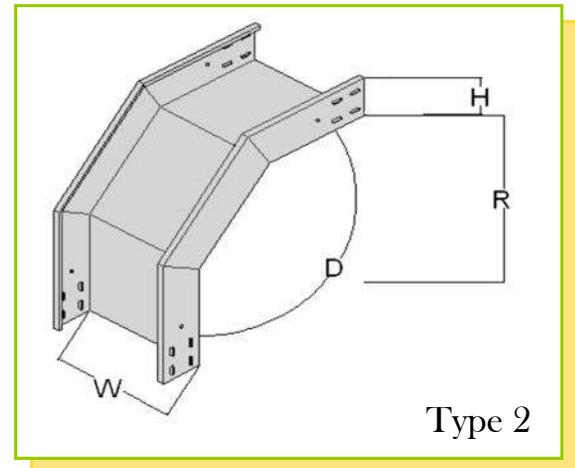
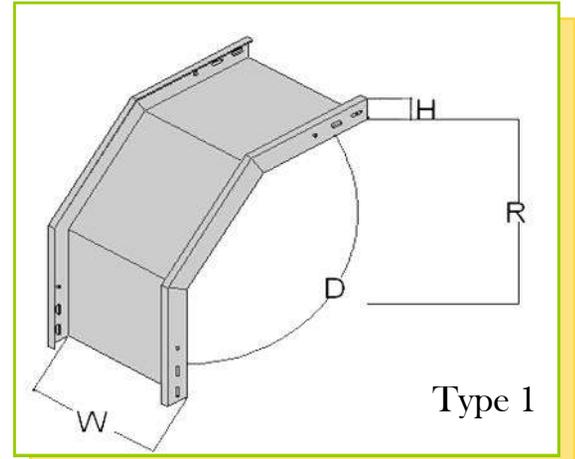
Code	Thickness	Height	Width	Radius	Degree
0	1	50	100	300	30
1	1.25	80	150	600	45
2	1.5	100	200		60
3	2	150	300		90
4	2.5		400		
5			450		
6			600		
7			750		
8			900		

PRODUCT : CABLE TRAY VERTICAL OUTSIDE



Connection

- 1-The radius is designed based on the cable tray bending radius.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-Sheet thickness of 1.5 mm is recommended for widths lower than 200 mm. (hot galvanization)
- 4-Sheet thickness of 2 mm is recommended for widths higher than 200 mm to 700 mm. (hot galvanization)
- 5-For galvanized sheets and stainless steel of widths lower (w_1) than 400 mm, thickness of 1.5 mm is recommended.
- 6-For galvanized sheets and stainless steel of widths higher (w_1) than 400 mm, thickness of 2 mm is recommended.
- 7-Punching of the wall is designed so it can be installed in any height.



Code Text

A m t T4 - H W R D



Code Number Table

Code	Thickness	Height	Width	Radius	Degree
0	1	50	100	300	30
1	1.25	80	150	600	45
2	1.5	100	200		60
3	2	150	300		90
4	2.5		400		
5			450		
6			600		
7			750		
8			900		

PRODUCT : CABLE TRAY EQUAL CROSS CONNECTION



Connection

1-The radius is designed based on the cable tray bending radius.

2-There is constructions ability with different widths.

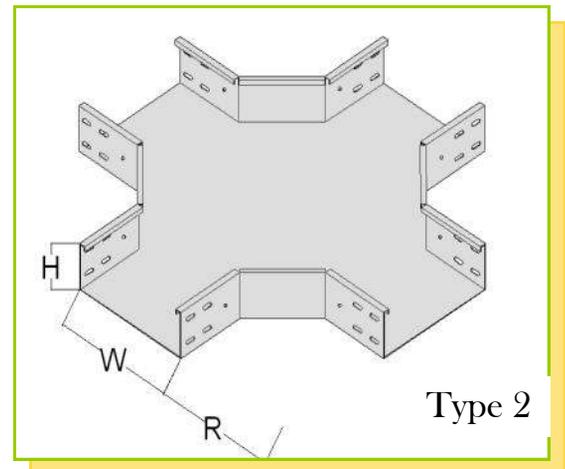
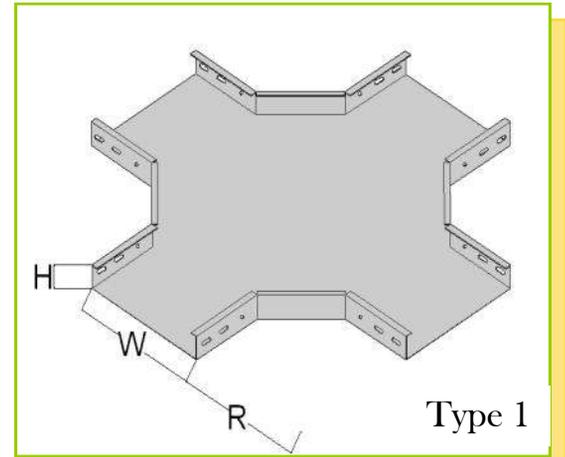
3-Sheet thickness of 2 mm is recommended for widths lower than 700 mm.

4-Sheet thickness of 2.5 mm is recommended for widths higher than 700 mm.

5-Punching of the wall is designed so it can be installed in any height.

6-The method of wall installation to the floor is suggested to be welding. (for ordinary iron sheets and steel)

7-The method of wall installation to the floor will be riveting for galvanized sheets.



Code Text

A m t T5 - H W R

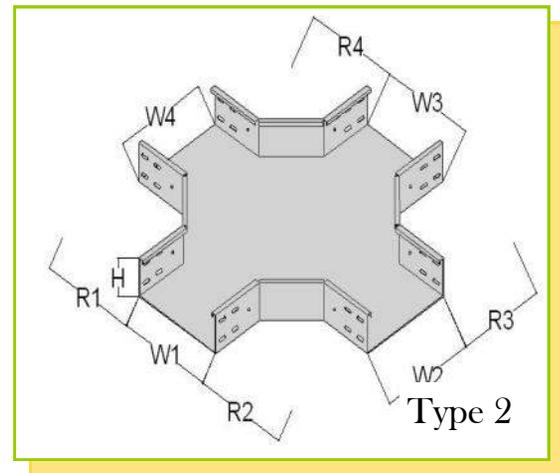
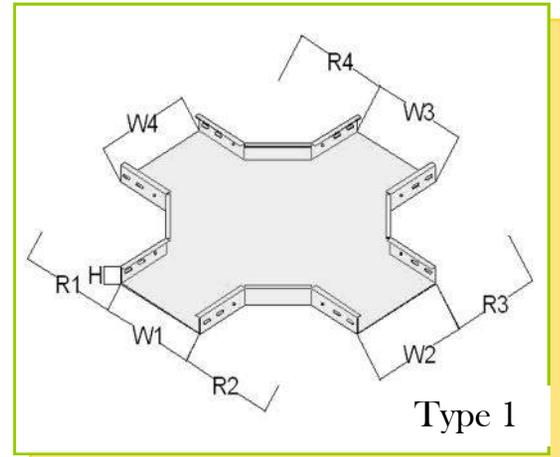
Code Number Table				
Code	Thickness	Width	Height	Radius
0	1	100	50	300
1	1.25	150	80	600
2	1.5	200	100	
3	2	300	150	
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

PRODUCT : CABLE TRAY CROSS CONNECTION



Connection

- 1-The radius is designed based on the cable tray bending radius.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-Sheet thickness of 1.5 mm is recommended for widths lower than 200 mm. (hot galvanization)
- 4-Sheet thickness of 2 mm is recommended for widths higher than 200 mm to 500 mm. (hot galvanization)
- 5-Sheet thickness of 2.5 mm is recommended for widths higher than 500 mm.
- 6-For galvanized sheets and stainless steel of widths lower (w_1) than 400 mm, thickness of 1.5 mm is recommended.
- 7-For galvanized sheets and stainless steel of widths higher (w_1) than 400 mm, thickness of 2 mm is recommended.
- 8-Punching of the wall is designed so it can be installed in any height.



Code Text

A m t T6 - H W1 W2 W3 W4 R1 R2 R3 R4

Code Number Table				
Code	Thickness	Width	Height	Radius
0	1	100	50	200
1	1.25	150	80	300
2	1.5	200	100	400
3	2	300	150	500
4	2.5	400		600
5		450		
6		600		
7		750		
8		900		

PRODUCT : CABLE TRAY EQUAL TEE CONNECTION



Connection

1-The radius is designed based on the cable tray bending radius.

2-Round punch on the wall will be used for earth or cover clamp.

3-Sheet thickness of 1.5 mm is recommended for widths lower than 200 mm. (hot galvanization)

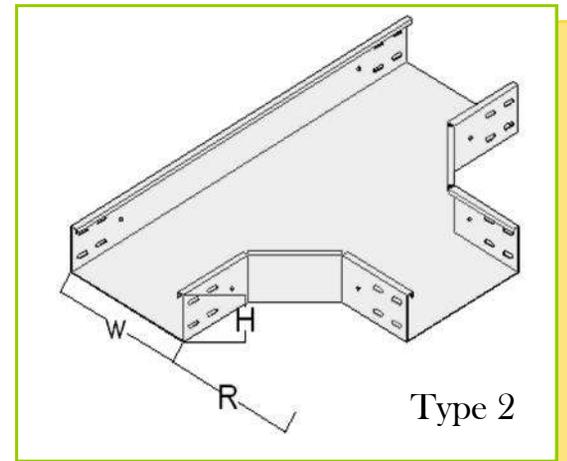
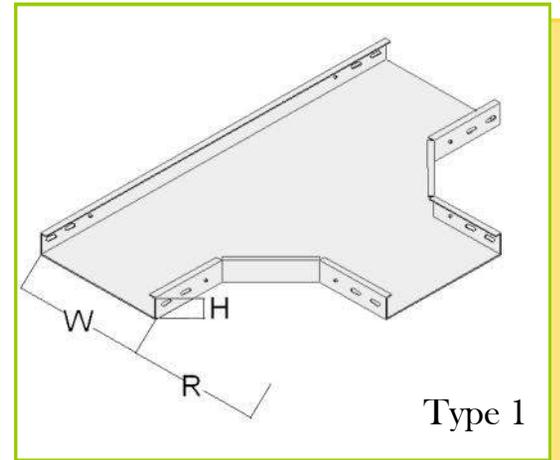
4-Sheet thickness of 2 mm is recommended for widths higher than 200 mm to 500 mm. (hot galvanization)

5-Sheet thickness of 2.5 mm is recommended for widths higher than 500 mm .

6-For galvanized sheets and stainless steel of widths lower (w_1) than 400 mm, thickness of 1.5 mm is recommended.

7-For galvanized sheets and stainless steel for widths higher (w_1) than 400 mm, thickness of 2 mm is recommended.

8-Punching of the wall is designed so it can be installed in any height.



Code Text

A m t T7 - H W R

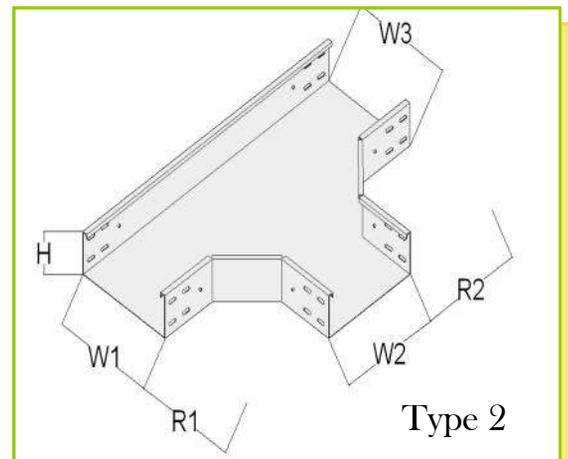
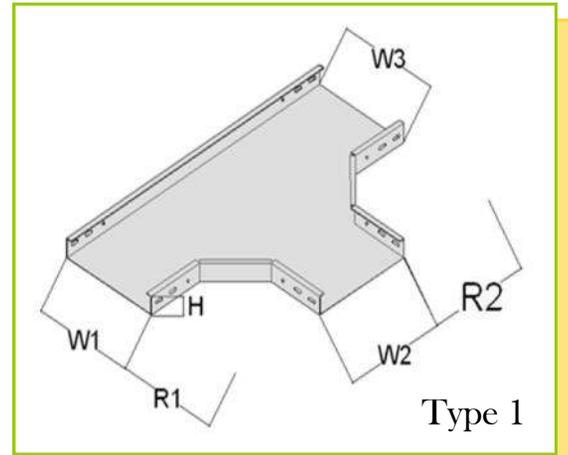
Code Number Table				
Code	Thickness	Width	Height	Radius
0	1	100	50	300
1	1.25	150	80	600
2	1.5	200	100	
3	2	300	150	
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

PRODUCT : CABLE TRAY TEE CONNECTION



Connection

- 1-The radius is designed based on the cable tray bending radius.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-Sheet thickness of 1.5 mm is recommended for widths lower than 200 mm. (hot galvanization)
- 4-Sheet thickness of 2 mm is recommended for widths higher than 200 mm to 500 mm. (hot galvanization)
- 5-Sheet thickness of 2.5 mm is recommended for widths higher than 500 mm .
- 6-For galvanized sheets and stainless steel of lower widths (w_1) than 400 mm, thickness of 1.5 mm is recommended.
- 7-For galvanized sheets and stainless steel of widths higher (w_1) than 400 mm, thickness of 2 mm is recommended.
- 8-Punching of the wall is designed so it can be installed in any height.



Code Text

A m t T₈ - H W₁ W₂ W₃ R₁ R₂

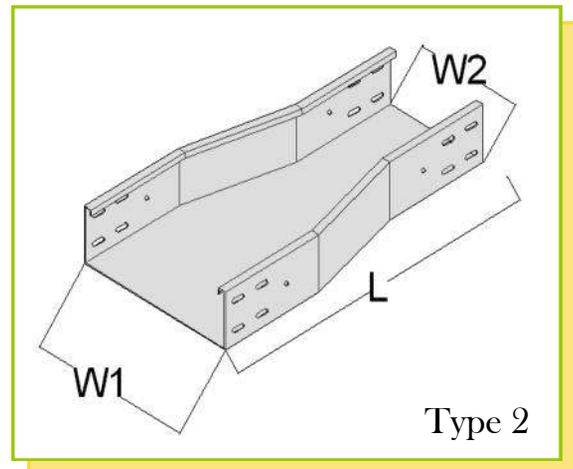
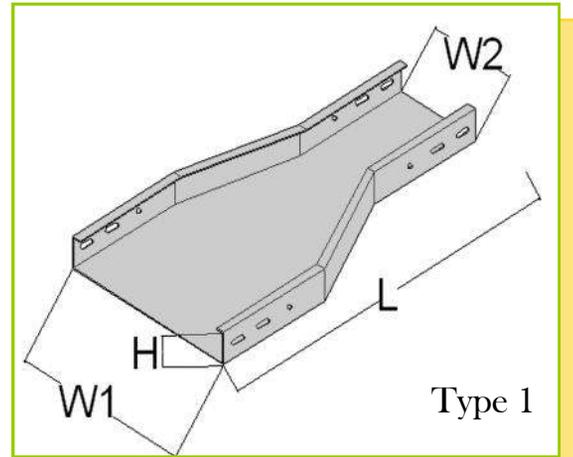
Code Number Table				
Code	Thickness	Width	Height	Radius
0	1	100	50	200
1	1.25	150	80	300
2	1.5	200	100	400
3	2	300	150	500
4	2.5	400		600
5		450		
6		600		
7		750		
8		900		

PRODUCT : CABLE TRAY REDUCER



Connection

- 1-The recommended piece length is 600mm.
- 2-The pieces are designed in a way that can be installed in any height.
- 3-Sheet thickness of 1.5 mm is recommended for widths lower (W_1) than 200 mm. (hot galvanization)
- 4-Sheet thickness of 2 mm is recommended for widths higher (W_1) than 200 mm to 700 mm. (hot galvanization)
- 5-For galvanized sheets and stainless steel for widths lower (W_1) than 400 mm, thickness of 1.5 mm is recommended.
- 6-For galvanized sheets and stainless steel, for widths higher (W_1) than 400 mm, thickness of 2 mm is recommended.



Code Text

A m t T₉ - H L W₁ W₂

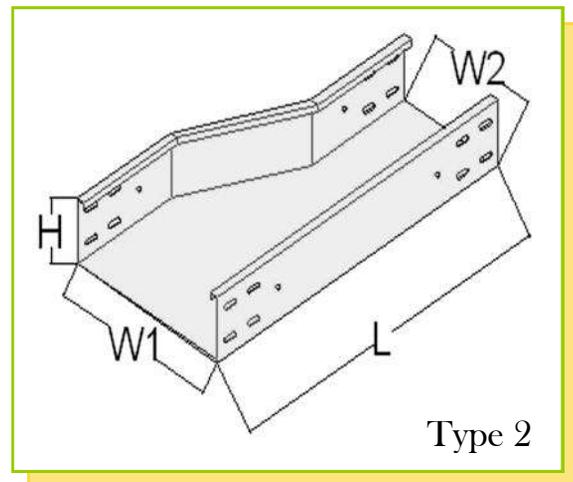
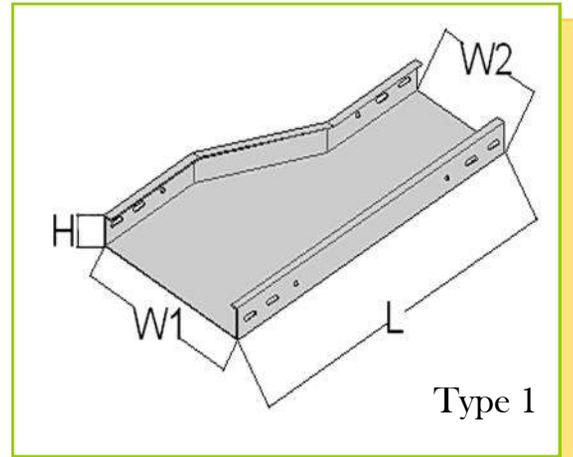
Code Number Table				
Code	Thickness	Width	Height	Length
0	1	100	50	600
1	1.25	150	80	1200
2	1.5	200	100	
3	2	300	150	
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

PRODUCT : CABLE TRAY RIGHT HAND REDUCER



Connection

- 1-The recommended piece length is 600mm.
- 2-The pieces are designed in a way that can be installed in any height.
- 3-Sheet thickness of 1.5 mm is recommended for widths lower (W_1) than 200 mm. (hot galvanization)
- 4-Sheet thickness of 2 mm is recommended for widths higher (W_1) than 200 mm to 700 mm. (hot galvanization)
- 5-For galvanized sheets and stainless steel, for widths lower (W_1) than 400 mm, thickness of 1.5 mm is recommended.
- 6-For galvanized sheets and stainless steel, for widths higher (W_1) than 400 mm, thickness of 2 mm is recommended.



Code Text

A m t T₁₀ - H L W₁ W₂



Code Number Table

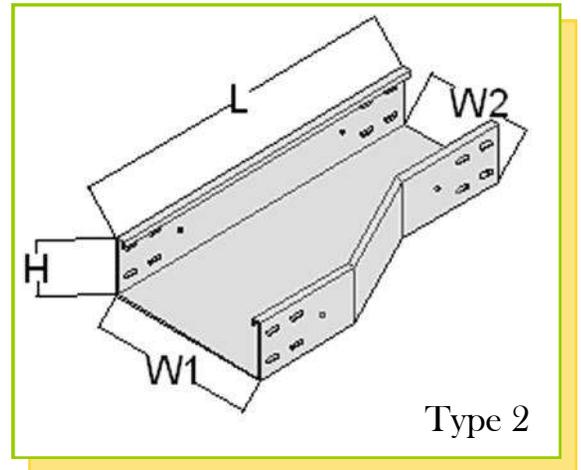
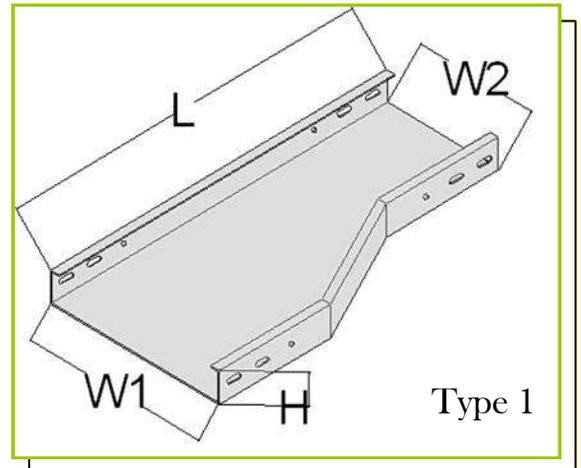
Code	Thickness	Width	Height	Length
0	1	100	50	600
1	1.25	150	80	1200
2	1.5	200	100	
3	2	300	150	
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

PRODUCT : CABLE TRAY LEFT HAND REDUCER



Connection

- 1-The recommended piece length is 600mm.
- 2-The pieces are designed in a way that can be installed in any height.
- 3-Sheet thickness of 1.5 mm is recommended for widths lower (W_1) than 200 mm. (hot galvanization)
- 4-Sheet thickness of 2 mm is recommended for widths higher (W_1) than 200 mm to 700 mm. (hot galvanization)
- 5-For galvanized sheets and stainless steel, for widths lower (W_1) than 400 mm, thickness of 1.5 mm is recommended.
- 6-For galvanized sheets and stainless steel, for widths higher (W_1) than 400 mm, thickness of 2 mm is recommended.



Code Text

A m t T₁₁ - H L W₁ W₂

Code Number Table				
Code	Thickness	Width	Height	Length
0	1	100	50	600
1	1.25	150	80	1200
2	1.5	200	100	
3	2	300	150	
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

CABLE LADDER INTRODUCTION



PRODUCT : CABLE LADDER TRAY STRAIGHT



Straight

1-The ladder walls of type 1 has a bend toward inside but the ladder walls of type 2 has a bend toward inside and a bend downward.

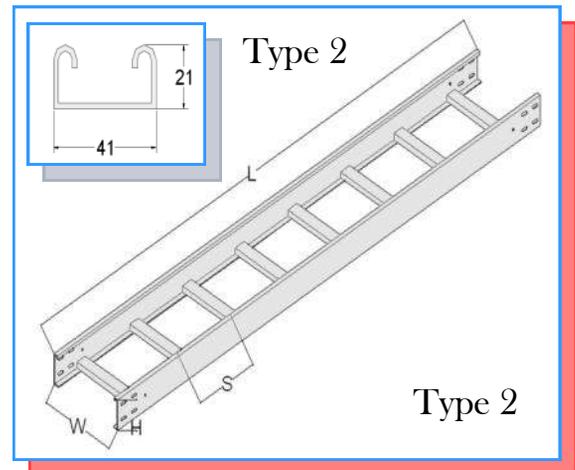
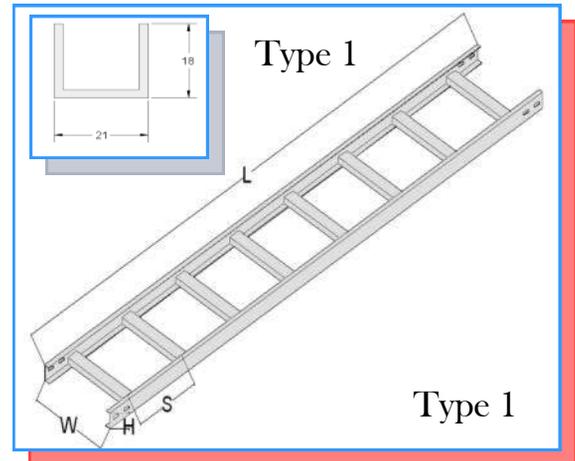
2-Sheet thickness of 2mm is recommended for the ladders up to the 600mm width and up to the thickness of 2.5mm is suggested. (hot galvanization)

3-The suggested method of stair installation is a sheet of stainless steel, also iron sheet is used in the form of welding and galvanized sheet is used to the form of diverting.

4-The length of ladders is recommended to be 2000mm but it can be produced until 6000mm.

5-The stairs have two types.

Profile 41 * 21 to U-Type Support 45 * 18.



Code Text

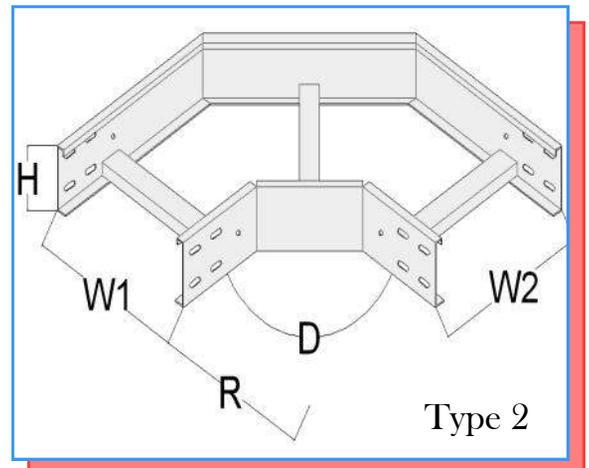
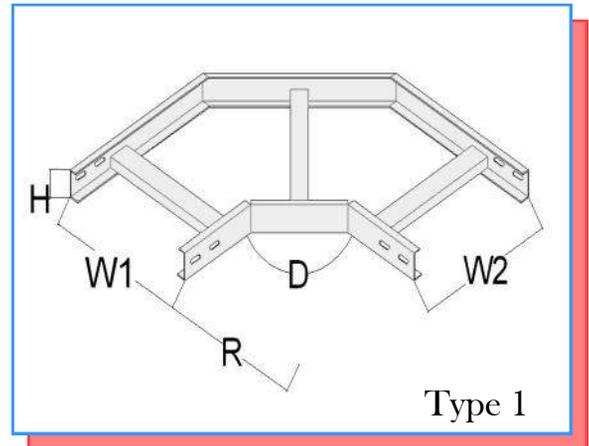
A m t L_i - H L W S d

Code Number Table							
Code	Thickness	Width	Height	Length	Stair Difference	Stair	Distance
0	1	100	50	2000	250	21 * 41	250
1	1.25	150	80	2500	300	18 * 41	300
2	1.5	200	100	3000			
3	2	300	150				
4	2.5	400					
5		450					
6		600					
7		750					
8		900					
9		1200					



Connection

- 1-The radius is designed based on the cable bending radius.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-For the up to 600 mm widths, sheet thickness of 2 mm to 2.5 mm is suggested.
- 4-The distance of stairs from each other in the total line should be respected.
- 5-The suggested method of stair installation is a sheet of stainless steel, also iron sheet in the form of welding and galvanized sheet is used in the form of diverting.
- 6-Punching the wall is designed in a way that can be installed for each height is



Code Text

A m t L₂ - H W₁ W₂ R D S

Code Number Table						
Code	Thickness	Width	Height	Radius	Degree	Stair
0	1	100	50	300	30	21*41
1	1.25	150	80	600	45	18*41
2	1.5	200	100		60	
3	2	300	150		90	
4	2.5	400				
5		450				
6		600				
7		750				
8		900				
9		1200				



Connection

1-The radius (R) is designed based on the cable bending radius.

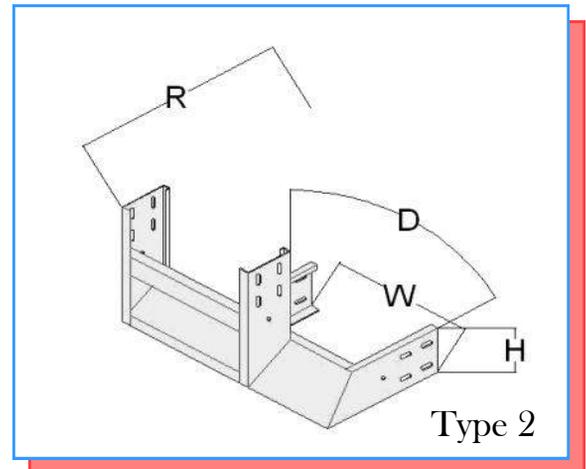
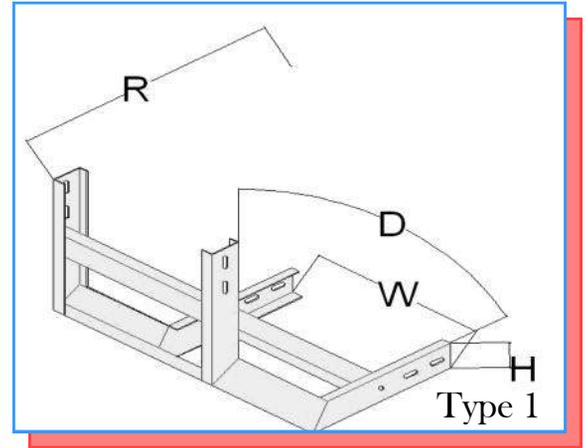
2-Round punch on the wall will be used for earth or cover clamp.

3-Sheet thickness for widths higher than 600 mm ,2.5 mm is recommended and 2 mm for the widths up to 600 mm.

4-The distance of stairs from each other in the total line should be respected.

5-The suggested method of stair installation to stair hug-gings is a sheet of stainless steel substance and iron sheet in the form of welding and galvanized sheet is used in the form of diverting.

6-Punching the wall is designed in a way that can be installed in any height.



Code Text

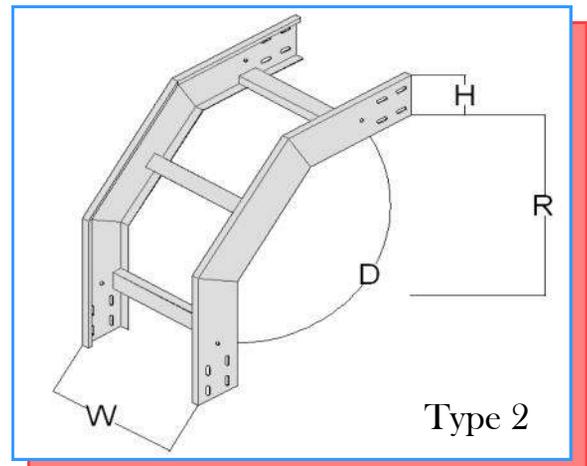
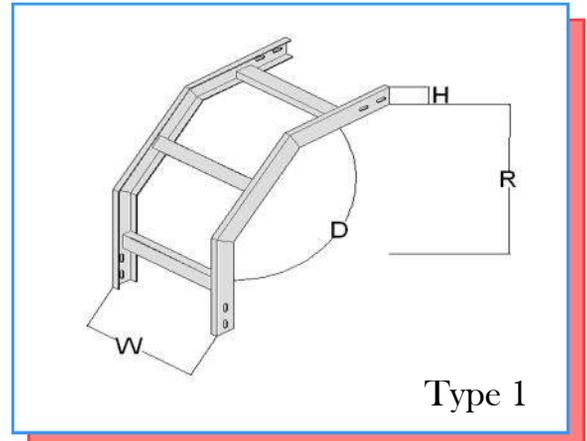
A m t L₃ - H W R D S

Code Number Table						
Code	Thickness	Width	Height	Radius	Degree	Stair
0	1	100	50	300	30	21 * 41
1	1.25	150	80	600	45	18 * 41
2	1.5	200	100		60	
3	2	300	150		90	
4	2.5	400				
5		450				
6		600				
7		750				
8		900				
9		1200				



Connection

- 1-The recommended piece length is 600mm.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-For the widths up to 600 mm, sheet thickness of 2 mm to 2.5 mm is suggested.
- 4-The distance of stairs from each other in the total line should be respected.
- 5-The suggested method of stair installation is a sheet of stainless steel, also iron sheet in the form of welding and galvanized sheet is used in the form of diverting.
- 6-Punching the wall is designed in a way that can be installed in any height.



Code Text

A m t L₄ - H W R D S

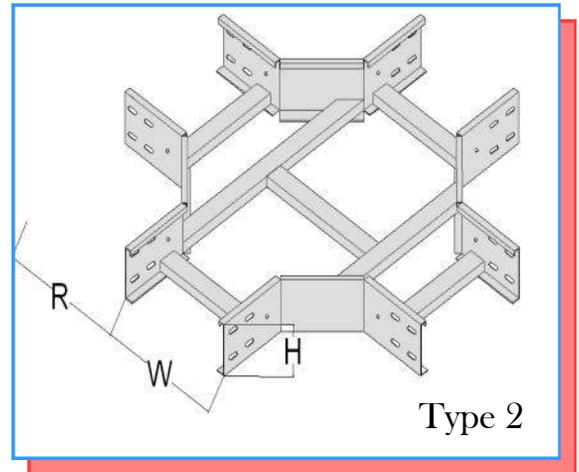
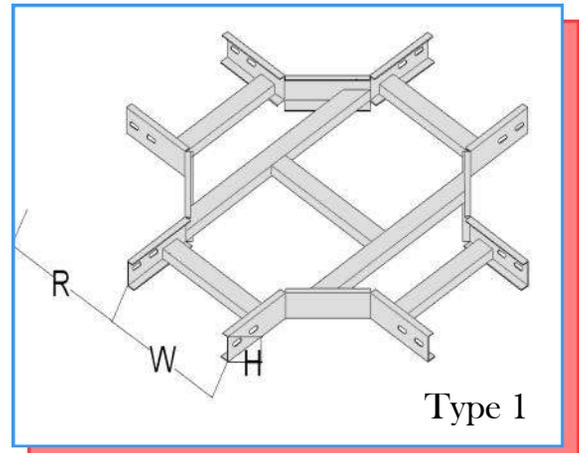
Code Number Table						
Code	Thickness	Width	Height	Radius	Degree	Stair
0	1	100	50	300	30	21*41
1	1.25	150	80	600	45	18*41
2	1.5	200	100		60	
3	2	300	150		90	
4	2.5	400				
5		450				
6		600				
7		750				
8		900				
9		1200				

PRODUCT : CABLE LADDER EQUAL CROSS CONNECTION



Connection

- 1-The radius (R) is designed based on the cable bending radius.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-For the widths up to 600 mm, sheet thickness of 2 mm to 2.5 mm is suggested.
- 4-The distance of stairs from each other in the total line should be respected.
- 5-The suggested method of stair installation is a sheet of stainless steel, also iron sheet in the form of welding and galvanized sheet is used in the form of diverting.
- 6-Punching the wall is designed in a way that can be installed in any height.



Code Text

A m t L₅ - H W R S

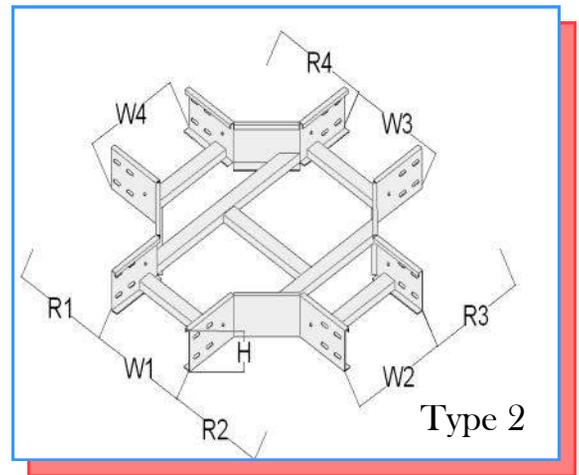
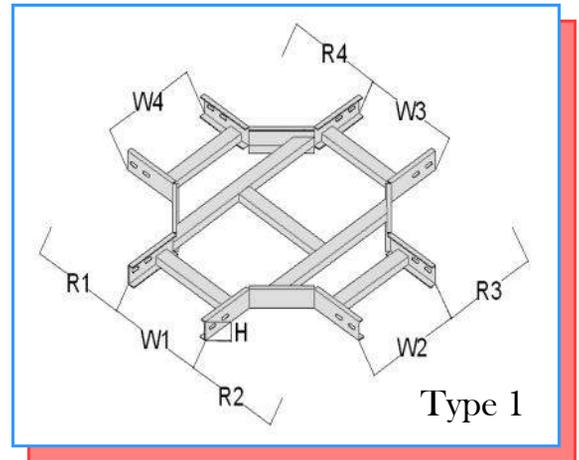
Code Number Table					
Code	Thickness	Width	Height	Radius	Stair
0	1	100	50	300	21 * 41
1	1.25	150	80	600	18 * 41
2	1.5	200	100		
3	2	300	150		
4	2.5	400			
5		450			
6		600			
7		750			
8		900			
9		1200			

PRODUCT : CABLE LADDER CROSS CONNECTION



Connection

- 1-The radius (R) is designed based on the cable bending radius.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-For the widths up to 600 mm, sheet thickness of 2 mm to 2.5 mm is suggested.
- 4-The distance of stairs from each other in the total line should be respected.
- 5-The suggested method of stair installation is a sheet of stainless steel, also iron sheet in the form of welding and galvanized sheet is used in the form of diverting.
- 6-Punching the wall is designed in a way that can be installed in any height.



Code Text

A m t L₆ - H W₁ W₂ W₃ W₄ R₁ R₂ R₃ R₄ S

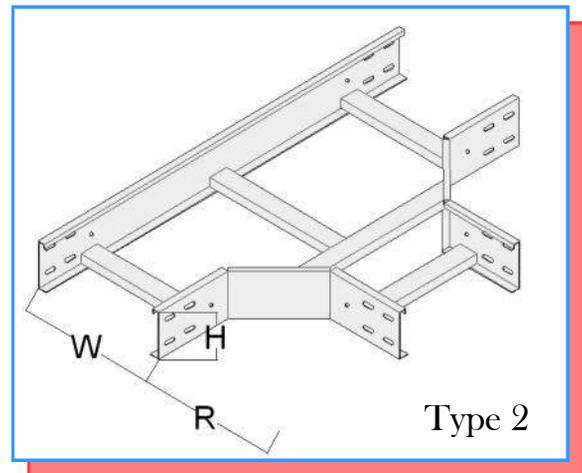
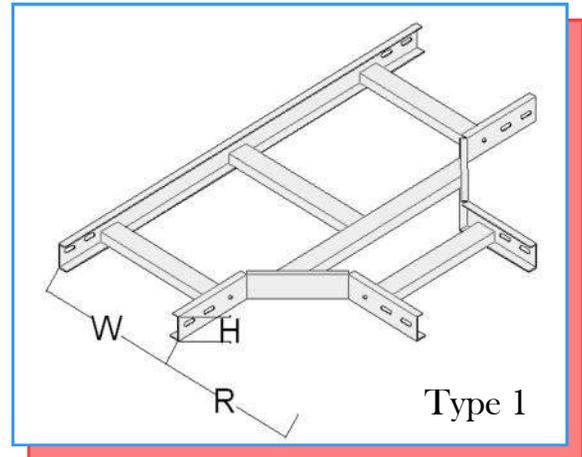
Code Number Table					
Code	Thickness	Width	Height	Radius	Stair
0	1	100	50	200	21 * 41
1	1.25	150	80	300	18 * 41
2	1.5	200	100	400	
3	2	300	150	500	
4	2.5	400		600	
5		450			
6		600			
7		750			
8		900			
9		1200			

PRODUCT : CABLE LADDER EQUAL TEE CONNECTION



Connection

- 1-The radius (R) is designed based on the cable bending radius.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-For the widths up to 600 mm, sheet thickness of 2 mm to 2.5 mm is suggested.
- 4-The distance of stairs from each other in the total line should be respected.
- 5-The suggested method of stair installation is a sheet of stainless steel, also iron sheet in the form of welding and galvanized sheet is used in the form of diverting.
- 6-Punching the wall is designed in a way that can be installed in any height.



Code Text

A m t L₇ - H W R S

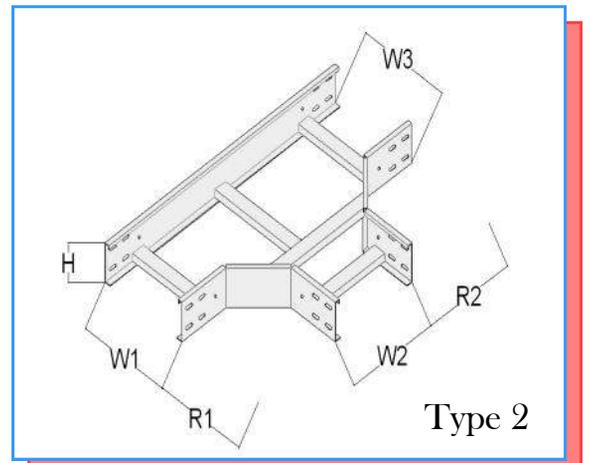
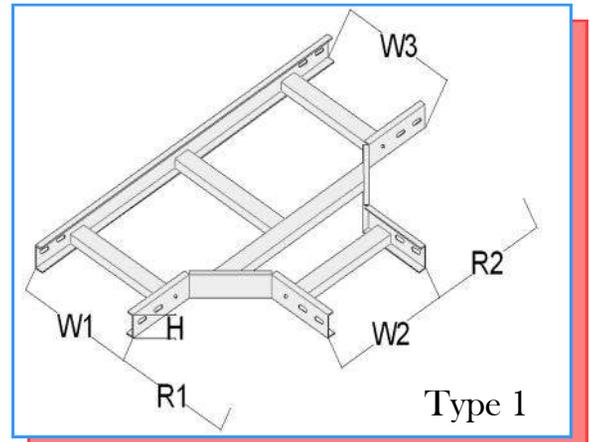
Code Number Table					
Code	Thickness	Width	Height	Radius	Stair
0	1	100	50	300	21 * 41
1	1.25	150	80	600	18 * 41
2	1.5	200	100		
3	2	300	150		
4	2.5	400			
5		450			
6		600			
7		750			
8		900			
9		1200			

PRODUCT : CABLE LADDER TEE CONNECTION



Connection

- 1-The radius (R) is designed based on the cable bending radius.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-For the widths up to 600 mm, sheet thickness of 2 mm to 2.5 mm is suggested.
- 4-The distance of stairs from each other in the total line should be respected.
- 5-The suggested method of stair installation is a sheet of stainless steel, also iron sheet is used in the form of welding and galvanized sheet is used in the form of diverting.
- 6-Punching the wall is designed in a way that can be installed in any height.



Code Text

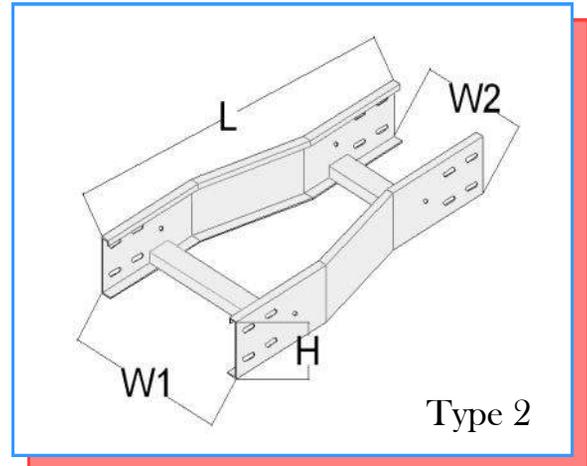
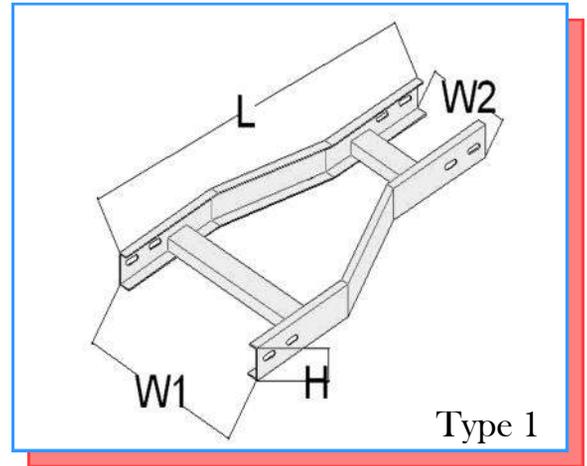
A m t L_s - H W₁ W₂ W₃ R₁ R₂ S

Code Number Table					
Code	Thickness	Width	Height	Radius	Stair
0	1	100	50	200	21 * 41
1	1.25	150	80	300	18 * 41
2	1.5	200	100	400	
3	2	300	150	500	
4	2.5	400		600	
5		450			
6		600			
7		750			
8		900			
9		1200			



Connection

- 1-The recommended piece length is 600mm.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-For the widths up to 600 mm, sheet thickness of 2 mm to 2.5 mm is suggested.
- 4-The distance of stairs from each other in the total line should be respected.
- 5-The suggested method of stair installation is a sheet of stainless steel, also iron sheet is used in the form of welding and galvanized sheet is used in the form of diverting.
- 6-Punching the wall is designed in a way that can be installed in any height.



Code Text

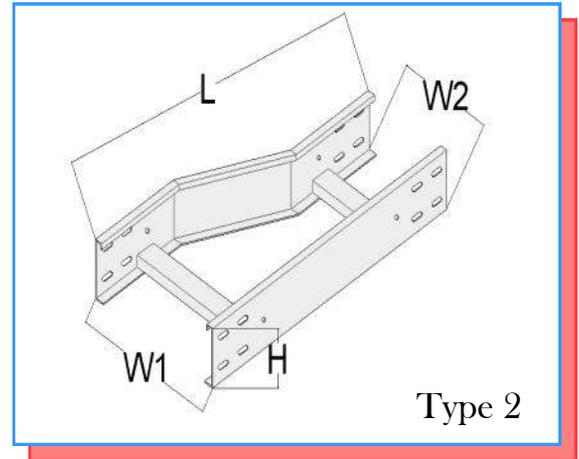
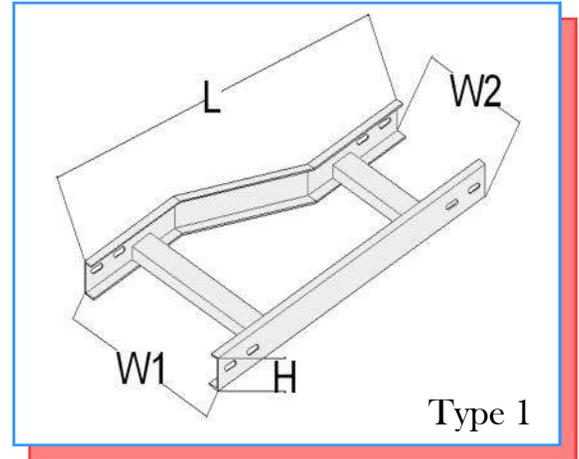
A m t L₀ - H L W₁ W₂ S

Code Number Table					
Code	Thickness	Width	Height	Length	Stair
0	1	100	50	600	21*41
1	1.25	150	80	1200	18*41
2	1.5	200	100	2000	
3	2	300	150	2500	
4	2.5	400		3000	
5		450			
6		600			
7		750			
8		900			
9		1200			



Connection

- 1-The recommended piece length is 600mm.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-For the widths up to 600 mm, sheet thickness of 2 mm to 2.5 mm is suggested.
- 4-The distance of stairs from each other in the total line should be respected.
- 5-The suggested method of stair installation is a sheet of stainless steel, also iron sheet is used in the form of welding and galvanized sheet is used in the form of diverting.
- 6-Punching the wall is designed in a way that can be installed in any height.



Code Text

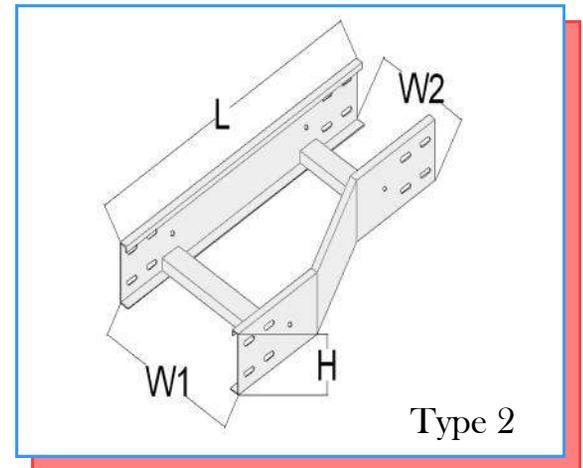
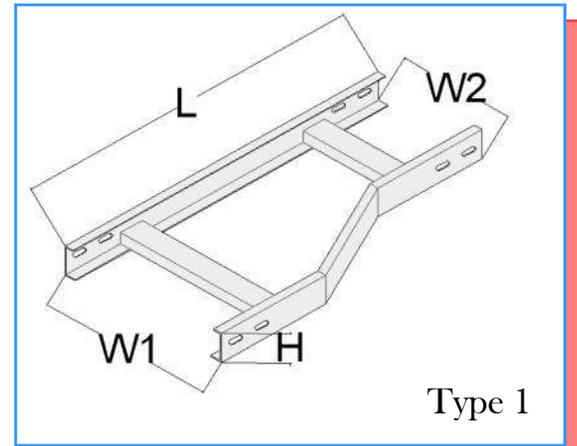
A m t L₁₀ - H L W₁ W₂ S

Code Number Table					
Code	Thickness	Width	Height	Length	Stair
0	1	100	50	600	21 * 41
1	1.25	150	80	1200	18 * 41
2	1.5	200	100	2000	
3	2	300	150	2500	
4	2.5	400		3000	
5		450			
6		600			
7		750			
8		900			
9		1200			



Connection

- 1-The recommended piece length is 600mm.
- 2-Round punch on the wall will be used for earth or cover clamp.
- 3-For the widths up to 600 mm, sheet thickness of 2 mm to 2.5 mm is suggested.
- 4-The distance of stairs from each other in the total line should be respected.
- 5-The suggested method of stair installation is a sheet of stainless steel, also iron sheet is used in the form of welding and galvanized sheet is used in the form of diverting.
- 6-Punching the wall is designed in a way that can be installed in any height.



Code Text

A m t L11 - H L W1 W2 S

Table Code Number					
Code	Thickness	Width	Height	Length	Stair
0	1	100	50	600	21 * 41
1	1.25	150	80	1200	18 * 41
2	1.5	200	100	2000	
3	2	300	150	2500	
4	2.5	400		3000	
5		450			
6		600			
7		750			
8		900			
9		1200			

Cover For Cable Ladder & Tray

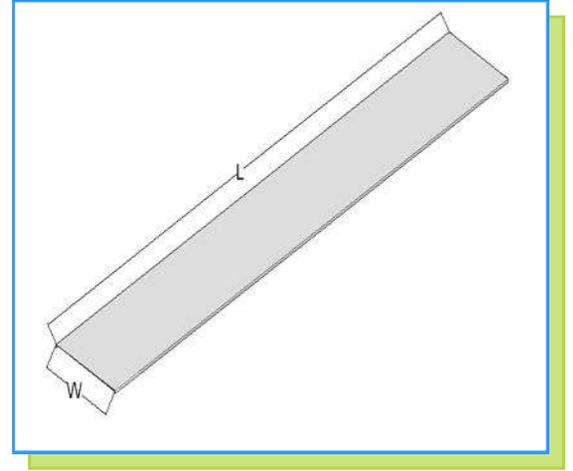


PRODUCT : COVER FOR CABLE TRAY & LADDER STRAIGHT



Straight

- 1-Two modes (cases) of cover clamp is required for covers up to 3000mm length.
- 2-We need 4 cover clamps for the covers of length 3000mm.
- 3-Sheet thickness of 1.5mm is recommended for widths lower than 300mm. (hot galvanization)
- 4-Sheet thickness of 2mm is recommended for widths from 300mm to 600mm. (hot galvanization)
- 5-Sheet thickness of 2.5mm is recommended for widths higher than 600mm. (hot galvanization)
- 6-Sheet thickness of 1.5mm is recommended for widths lower than 400mm. (steel and galvanized sheet)
- 7-Sheet thickness of 2mm is recommended for widths higher than 400mm. (steel and galvanized sheet)
- 8-The width of connection covers are 5mm larger than the widths of its connections.



Code Text

A m t C₁ - L W

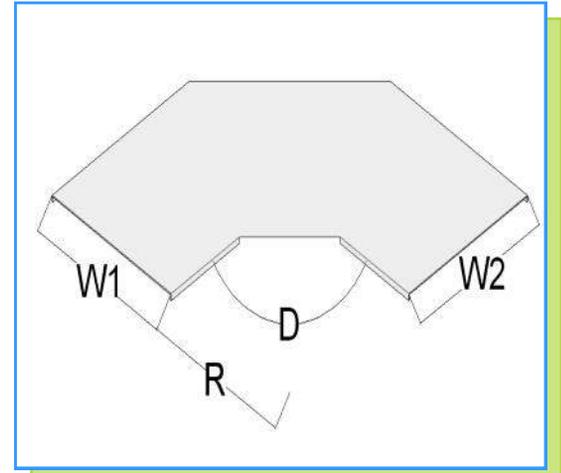
Code Number Table			
Code	Thickness	Width	Length
0	1	100	600
1	1.25	150	1200
2	1.5	200	2000
3	2	300	2500
4	2.5	400	3000
5		450	
6		600	
7		750	
8		900	

PRODUCT : COVER FOR CABLE TRAY & LADDER HORIZONTAL ELBOW



Connection

- 1-Every entry has a cover clamp.
- 2-Sheet thickness of 1.5mm is recommended for widths lower than 300mm. (hot galvanization)
- 3-Sheet thickness of 2mm is recommended for widths from 300mm to 600mm. (hot galvanization)
- 4-Sheet thickness of 2.5mm is recommended for widths higher than 600mm. (hot galvanization)
- 5-Sheet thickness of 1.5mm is recommended for widths lower than 400mm. (steel and galvanized sheet)
- 6-Sheet thickness of 2mm is recommended for widths higher than 400mm. (steel and galvanized sheet)
- 7-The width of connection covers are 5mm larger than the width of the its connections.



Code Text

A m t C₂ - H W₁ W₂ R D



Code Number Table

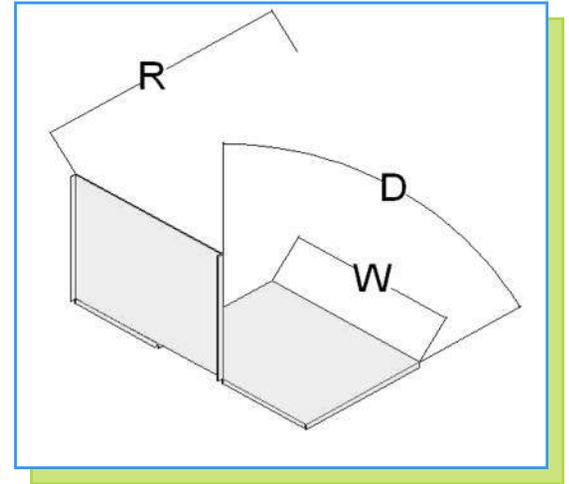
Code	Thickness	Width	Radius	Degree
0	1	100	300	30
1	1.25	150	600	45
2	1.5	200		60
3	2	300		90
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

PRODUCT : COVER FOR CABLE TRAY & LADDER VERTICAL INSIDE



Connection

- 1-Every entry has a cover clamp.
- 2-Sheet thickness of 1.5mm is recommended for widths lower than 300mm. (hot galvanization)
- 3-Sheet thickness of 2mm is recommended for widths from 300mm to 600mm. (hot galvanization)
- 4-Sheet thickness of 2.5mm is recommended for widths higher than 600mm. (hot galvanization)
- 5-Sheet thickness of 1.5mm is recommended for widths lower than 400mm. (steel and galvanized sheet)
- 6-Sheet thickness of 2mm is recommended for widths higher than 400mm. (steel and galvanized sheet)
- 7-The width of connection covers are 5mm larger than the width of the its connections.



Code Text

A m t C₃ - W R D



Code Number Table

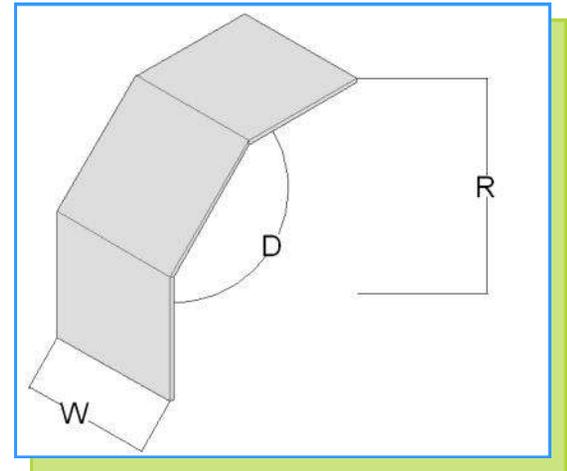
Code	Thickness	Width	Radius	Degree
0	1	100	300	30
1	1.25	150	600	45
2	1.5	200		60
3	2	300		90
4	2.5	400		
5		450		
6		600		
7		750		
8		900		

PRODUCT : COVER FOR CABLE TRAY & LADDER VERTICAL OUTSIDE



Connection

- 1-Every entry has a cover clamp.
- 2-Sheet thickness of 1.5mm is recommended for widths lower than 300mm. (hot galvanization)
- 3-Sheet thickness of 2mm is recommended for widths from 300mm to 600mm. (hot galvanization)
- 4-Sheet thickness of 2.5mm is recommended for widths higher than 600mm. (hot galvanization)
- 5-Sheet thickness of 1.5mm is recommended for widths lower than 400mm. (steel and galvanized sheet)
- 6-Sheet thickness of 2mm is recommended for widths higher than 400mm. (steel and galvanized sheet)
- 7-The width of connection covers are 5mm larger than the width of the its connections.



Code Text

A m t C₄ - W R D



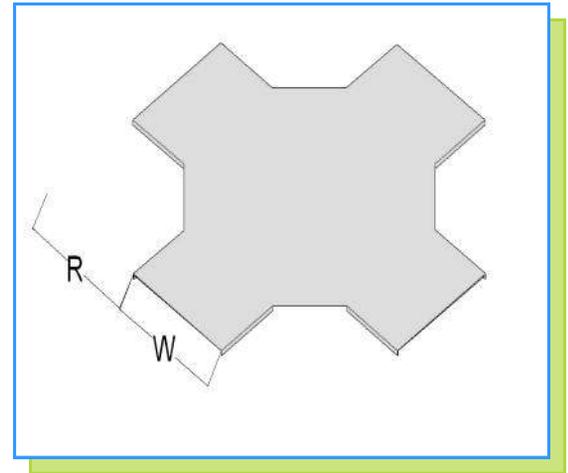
Code Number Table

Code	Thickness	Width	Radius	Degree
0	1	100	300	30
1	1.25	150	600	45
2	1.5	200		60
3	2	300		90
4	2.5	400		
5		450		
6		600		
7		750		
8		900		



Connection

- 1-Every entry has a cover clamp.
- 2-Sheet thickness of 1.5mm is recommended for widths lower than 300mm. (hot galvanization)
- 3-Sheet thickness of 2mm is recommended for widths from 300mm to 600mm. (hot galvanization)
- 4-Sheet thickness of 2.5mm is recommended for widths higher than 600mm. (hot galvanization)
- 5-Sheet thickness of 1.5mm is recommended for widths lower than 400mm. (steel and galvanized sheet)
- 6-Sheet thickness of 2mm is recommended for widths higher than 400mm. (steel and galvanized sheet)
- 7-The width of connection covers are 5mm larger than the width of the its connections.



Code Text

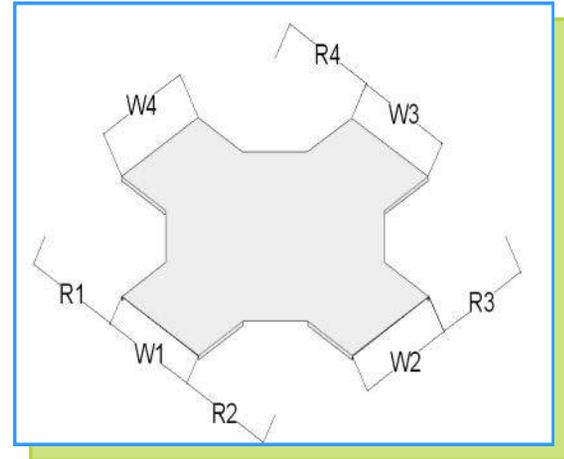
A m t C₅ - W R

Code Number Table			
Code	Thickness	Width	Radius
0	1	100	300
1	1.25	150	600
2	1.5	200	
3	2	300	
4	2.5	400	
5		450	
6		600	
7		750	
8		900	



Connection

- 1-Every entry has a cover clamp.
- 2-Sheet thickness of 1.5mm is recommended for widths lower than 300mm. (hot galvanization)
- 3-Sheet thickness of 2mm is recommended for widths from 300mm to 600mm. (hot galvanization)
- 4-Sheet thickness of 2.5mm is recommended for widths higher than 600mm. (hot galvanization)
- 5-Sheet thickness of 1.5mm is recommended for widths lower than 400mm. (steel and galvanized sheet)
- 6-Sheet thickness of 2mm is recommended for widths higher than 400mm. (steel and galvanized sheet)
- 7-The width of connection covers are 5mm larger than the width of the its connections.



Code Text

A m t C₆ - H W₁ W₂ W₃ W₄ R₁ R₂ R₃ R₄

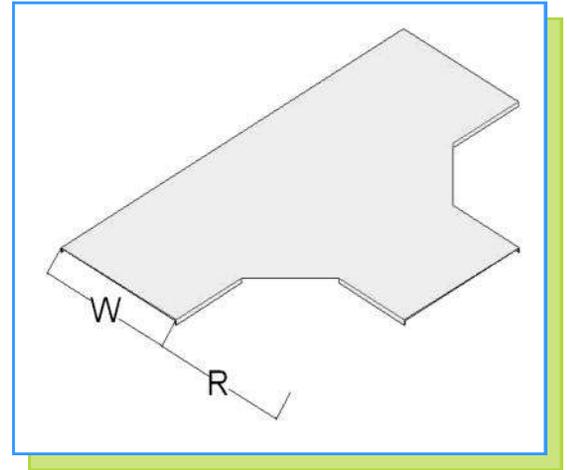
Code Number Table

Code	Thickness	Width	Height	Radius
0	1	100	50	200
1	1.25	150	80	300
2	1.5	200	100	400
3	2	300	150	500
4	2.5	400		600
5		450		
6		600		
7		750		
8		900		



Connection

- 1-Every entry has a cover clamp.
- 2-Sheet thickness of 1.5mm is recommended for widths lower than 300mm. (hot galvanization)
- 3-Sheet thickness of 2mm is recommended for widths from 300mm to 600mm. (hot galvanization)
- 4-Sheet thickness of 2.5mm is recommended for widths higher than 600mm. (hot galvanization)
- 5-Sheet thickness of 1.5mm is recommended for widths lower than 400mm. (steel and galvanized sheet)
- 6-Sheet thickness of 2mm is recommended for widths higher than 400mm. (steel and galvanized sheet)
- 7-The width of connection covers are 5mm larger than the width of the its connections.



Code Text

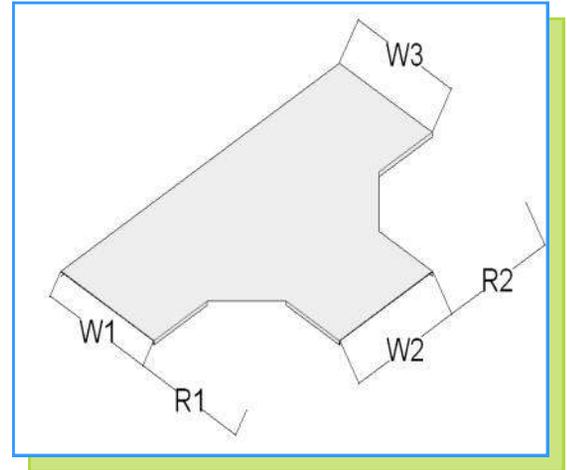
A m t C₇ - W R

Code Number Table			
Code	Thickness	Width	Radius
0	1	100	300
1	1.25	150	600
2	1.5	200	
3	2	300	
4	2.5	400	
5		450	
6		600	
7		750	
8		900	



CONNECTION

- 1-Every entry has a cover clamp.
- 2-Sheet thickness of 1.5mm is recommended for widths lower than 300mm. (hot galvanization)
- 3-Sheet thickness of 2mm is recommended for widths from 300mm to 600mm. (hot galvanization)
- 4-Sheet thickness of 2.5mm is recommended for widths higher than 600mm. (hot galvanization)
- 5-Sheet thickness of 1.5mm is recommended for widths lower than 400mm. (steel and galvanized sheet)
- 6-Sheet thickness of 2mm is recommended for widths higher than 400mm. (steel and galvanized sheet)
- 7-The width of connection covers are 5mm larger than the width of the its connections.



Code Text

A m t C₈ - H W₁ W₂ W₃ R₁ R₂

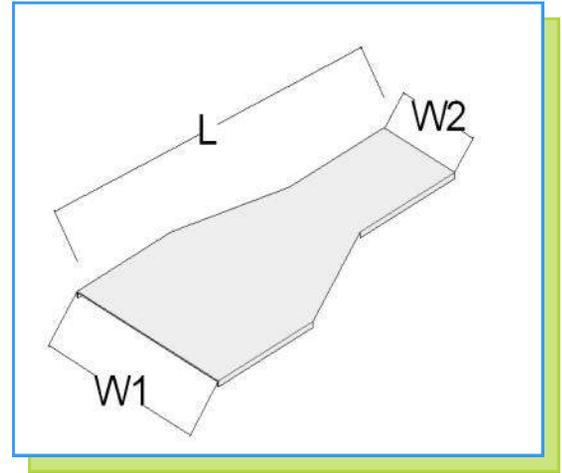
Code Number Table

Code	Thickness	Width	Height	Radius
0	1	100	50	200
1	1.25	150	80	300
2	1.5	200	100	400
3	2	300	150	500
4	2.5	400		600
5		450		
6		600		
7		750		
8		900		



Connection

- 1-Every entry has a cover clamp.
- 2-Sheet thickness of 1.5mm is recommended for widths lower than 300mm. (hot galvanization)
- 3-Sheet thickness of 2mm is recommended for widths from 300mm to 600mm. (hot galvanization)
- 4-Sheet thickness of 2.5mm is recommended for widths higher than 600mm. (hot galvanization)
- 5-Sheet thickness of 1.5mm is recommended for widths lower than 400mm. (steel and galvanized sheet)
- 6-Sheet thickness of 2mm is recommended for widths higher than 400mm. (steel and galvanized sheet)
- 7-The width of connection covers are 5mm larger than the width of the its connections.



Code Text

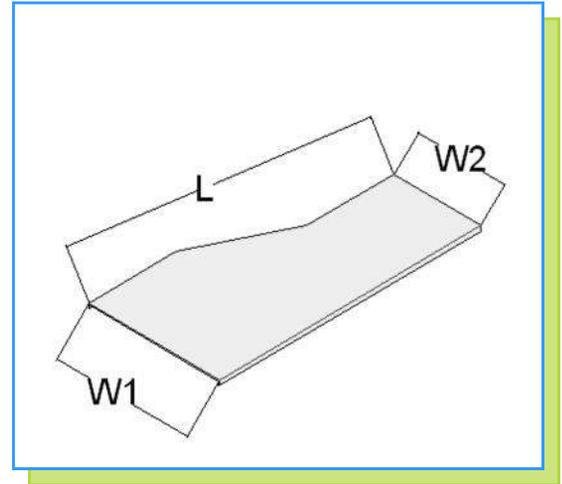
A m t C₉ - L W₁ W₂

Code Number Table			
Code	Thickness	Width	Length
0	1	100	600
1	1.25	150	1200
2	1.5	200	
3	2	300	
4	2.5	400	
5		450	
6		600	
7		750	
8		900	



Connection

- 1-Every entry has a cover clamp.
- 2-Sheet thickness of 1.5mm is recommended for widths lower than 300mm. (hot galvanization)
- 3-Sheet thickness of 2mm is recommended for widths from 300mm to 600mm. (hot galvanization)
- 4-Sheet thickness of 2.5mm is recommended for widths higher than 600mm. (hot galvanization)
- 5-Sheet thickness of 1.5mm is recommended for widths lower than 400mm. (steel and galvanized sheet)
- 6-Sheet thickness of 2mm is recommended for widths higher than 400mm. (steel and galvanized sheet)
- 7-The width of connection covers are 5mm larger than the width of the its connections.



Code Text

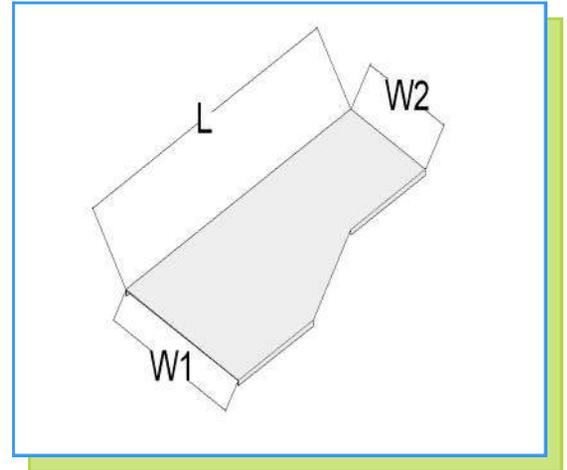
A m t C₁₀ - L W₁ W₂

Code Number Table			
Code	Thickness	Width	Length
0	1	100	600
1	1.25	150	1200
2	1.5	200	
3	2	300	
4	2.5	400	
5		450	
6		600	
7		750	
8		900	



Connection

- 1-Every entry has a cover clamp.
- 2-Sheet thickness of 1.5mm is recommended for widths lower than 300mm. (hot galvanization)
- 3-Sheet thickness of 2mm is recommended for widths from 300mm to 600mm. (hot galvanization)
- 4-Sheet thickness of 2.5mm is recommended for widths higher than 600mm. (hot galvanization)
- 5-Sheet thickness of 1.5mm is recommended for widths lower than 400mm. (steel and galvanized sheet)
- 6-Sheet thickness of 2mm is recommended for widths higher than 400mm. (steel and galvanized sheet)
- 7-The width of connection covers are 5mm larger than the width of the its connections.

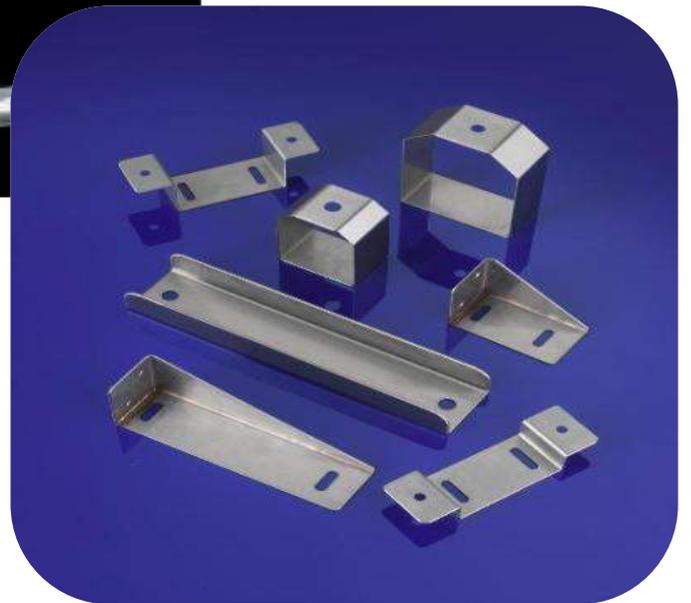
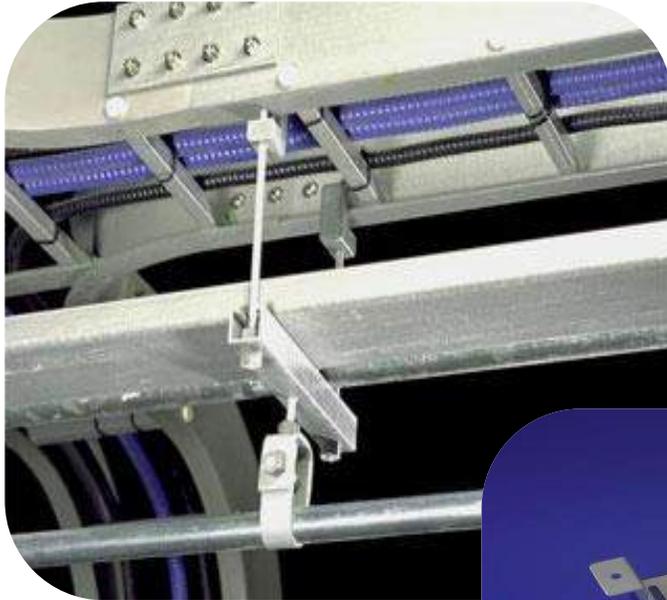


Code Text

A m t C₁₁ - L W₁ W₂

Code Number Table			
Code	Thickness	Width	Length
0	1	100	600
1	1.25	150	1200
2	1.5	200	
3	2	300	
4	2.5	400	
5		450	
6		600	
7		750	
8		900	

SUPPORT INTRODUCTION

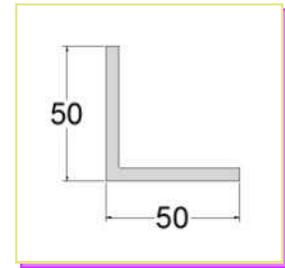
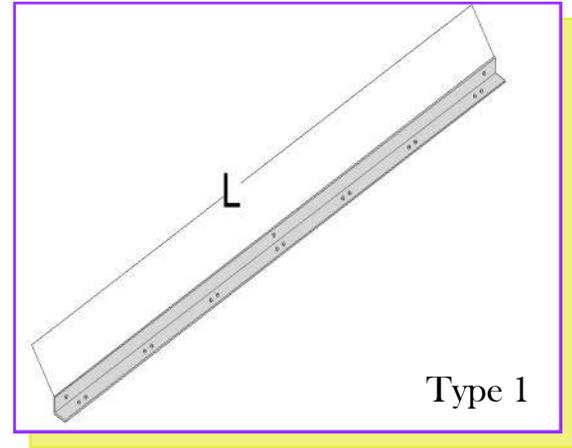


PRODUCT : L TYPE SUPPORT



Support

- 1-Consumer angles are based on production iron foundries standards.
- 2-The distance of every punch is recommended to be 250 to 300 mm for installation of brackets.
- 3-The suggested support is for installation on the wall but it is changeable on the base plate.
- 4-Single punch on the angle is used for installation of the expansion bolt.
- 5-Suggested length is up to 2300 mm for such supports.
- 6-Tolerable weight will be presented attached to such supports.



Code Text

A m t S₁ - L



Code Number Table

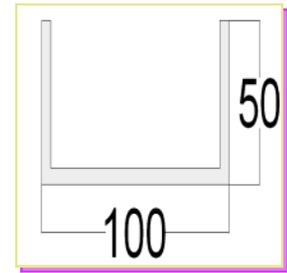
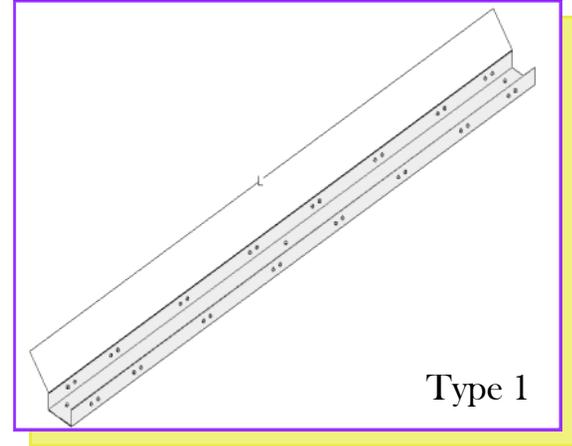
Code	Thickness	Length
0	5	200
1		500
2		800
3		1100
4		1400
5		1700
6		2000
7		2300

PRODUCT : U TYPE SUPPORT



Support

- 1-Consumer angles are based on production standard of iron foundries.
- 2-The distance of every punch is recommended to be 250 to 300 mm for installation of brackets.
- 3-The suggested support is for installation on the base plates and the brackets can be installed on either side .
- 4-Suggested length is 2300 mm for such supports.
- 5-Tolerable weight will be presented attached to such supports.



Code Text

A m t S₂ - L



Code Number Table

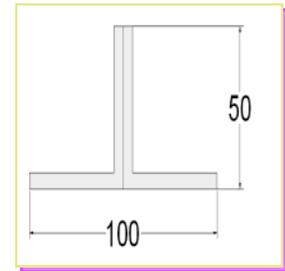
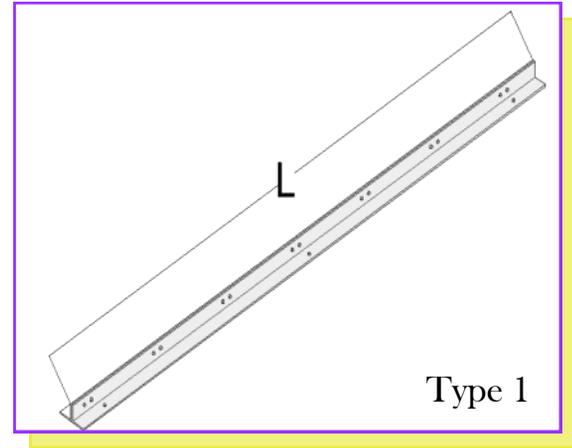
Code	Thickness	Length
0	5	200
1		500
2		800
3		1100
4		1400
5		1700
6		2000
7		2300

PRODUCT : T TYPE SUPPORT



Support

- 1-Consumer angles are based on production standard of iron foundries.
- 2-The distance of every punch is recommended to be 250 to 300 mm for installation of the brackets.
- 3-The suggested support is for installation on the wall but it is changeable on the base plate.
- 4-Single punch on the angle is used for the installation of expansion bolt.
- 5-Suggested length is up to 2300 mm for such supports.
- 6-Tolerable weight will be presented attached to such supports.



Code Text

A m t S₃ - L



Code Number Table

Code	Thickness	Length
0	5	200
1		500
2		800
3		1100
4		1400
5		1700
6		2000
7		2300

PRODUCT : BRACKET



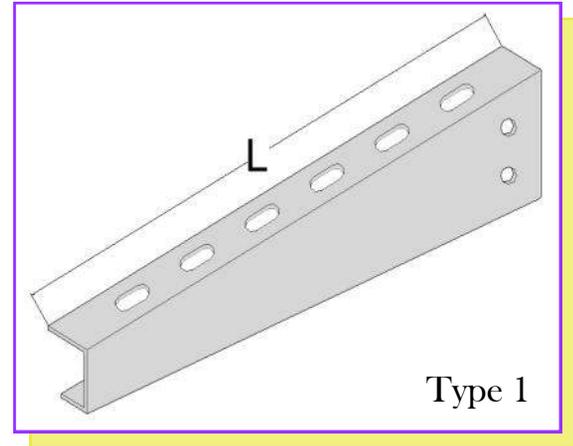
Bracket

1-Such brackets are for installation on the T ,U and L support.

2-Sheet thickness is recommended to be 2.5 or 3 mm based on the load.

3-Bracket length is 50 mm larger than cable ladder and the tray that is placed on the brackets.

4-Such brackets with two steel screws m10*30 is installed on the support.



Code Text

A m t S₄ - L



Code Number Table

Code	Thickness	Length
0	2.5	150
1	3	250
2		350
3		450
4		550
5		650
6		750
7		850
8		950

PRODUCT : WALL BRACKET

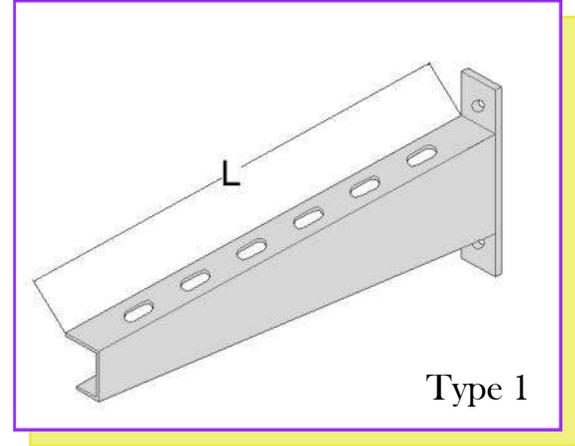


Wall Bracket

1-Such brackets can be used for installation on the wall.

2-Sheet thickness is recommended to be 2.5 or 3 mm for the length (L) and 6mm for the bottom of base plate based on the load.

3-Such brackets will be installed with two roll bolts m100*10 on the wall but it can be used until m100*12 based on the load.



Code Text

A m t S₅ - L



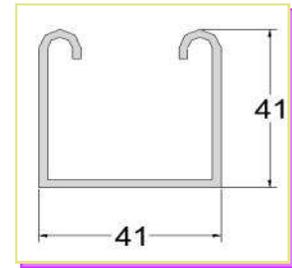
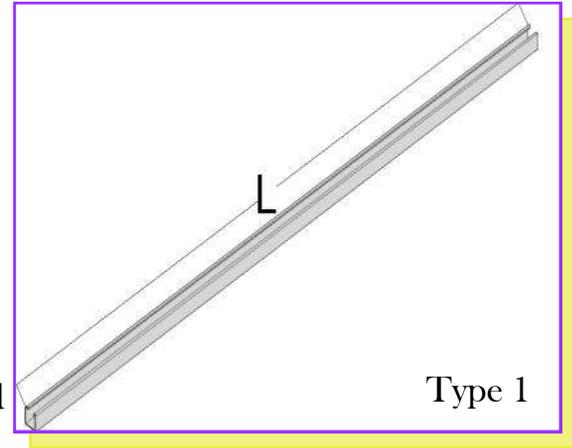
Code Number Table

Code	Thickness	Length
0	2.5	100
1	3	200
2		300
3		400
4		500
5		600
6		700
7		800
8		900



Single Channel

- 1-Such supports can be used for the installation of pipes along the line.
- 2-The such supports can be produced up to 6000 mm in length.
- 3-The advantage of such supports is that they can be installed easily and are flexible to install.
- 4-The disadvantage of such supports will be low load tolerance.
- 5-The amount of load bearing is presented in the figure of catalogue.
- 6-Such supports can be installed on the wall or the base plate.



Code Text

A m t S₆ - L



Code Number Table

Code	Thickness	Length
0	2	500
1	2.5	1000
2		1500
3		2000
4		2500
5		3000
6		3500
7		4000
8		5000
9		6000

PRODUCT : SINGLE CHANNEL 41 * 21



Single Channel

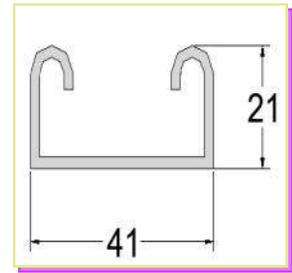
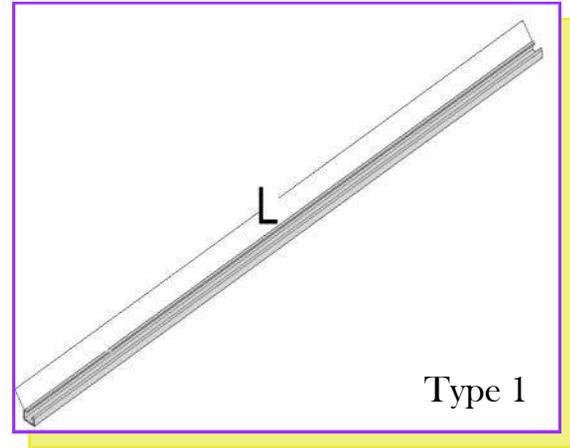
1-Consumer angles is based on production standards of iron foundries.

2-The distance of every punch is recommended to be 250 to 300 mm for installation of brackets.

3-The suggested support is for installation on the base plates and the brackets can be installed on either side .

4-Suggested length is 2300 mm for such supports.

5-Tolerable weight will be presented attached to such supports.



Code Text

A m t S₇ - L



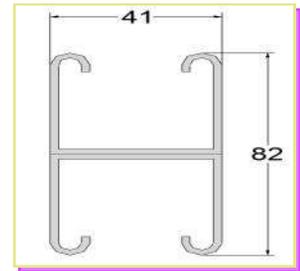
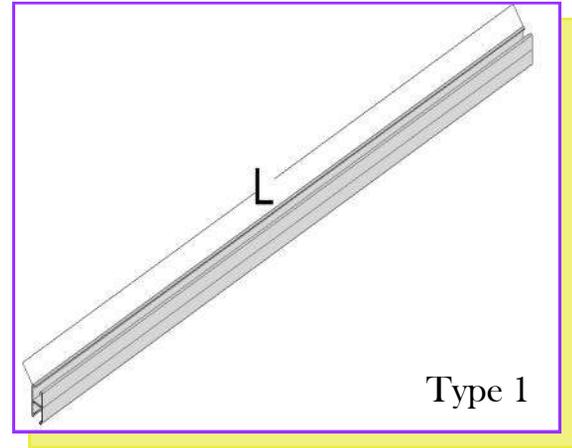
Code Number Table

Code	Thickness	Length
0	2	500
1	2.5	1000
2		1500
3		2000
4		2500
5		3000
6		3500
7		4000
8		5000
9		6000



Single Channel

- 1-Consumer angles are on the base of production standards of iron foundries.
- 2-The distance of every punch is recommended to be 250 to 300 mm for installation of the brackets.
- 3-The suggested support is for installation on the base plates and the brackets can be installed on either side .
- 4-Suggested length is 2300 mm for such supports.
- 5-Tolerable weight will be presented attached to such supports.



Code Text

A m t S₈ - L



Code Number Table

Code	Thickness	Length
0	2	500
1	2.5	1000
2		1500
3		2000
4		2500
5		3000
6		3500
7		4000
8		5000
9		6000

PRODUCT : SINGLE CHANNEL 41 * 42



Single Channel

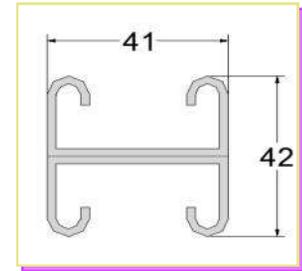
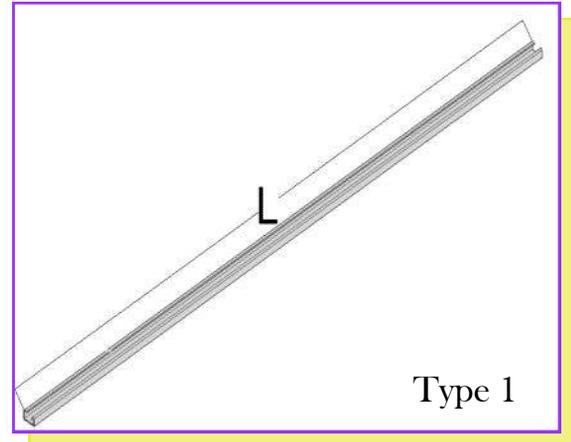
1-Consumer angles are based on production standards of iron foundries.

2-The distance of every punch is recommended to be 250 to 300 mm for installation of the brackets.

3-The suggested support for installation on the base plates and the brackets can be installed on either side .

4-Suggested length is 2300 mm for such supports.

5-Tolerable weight will be presented attached to such supports.



Code Text

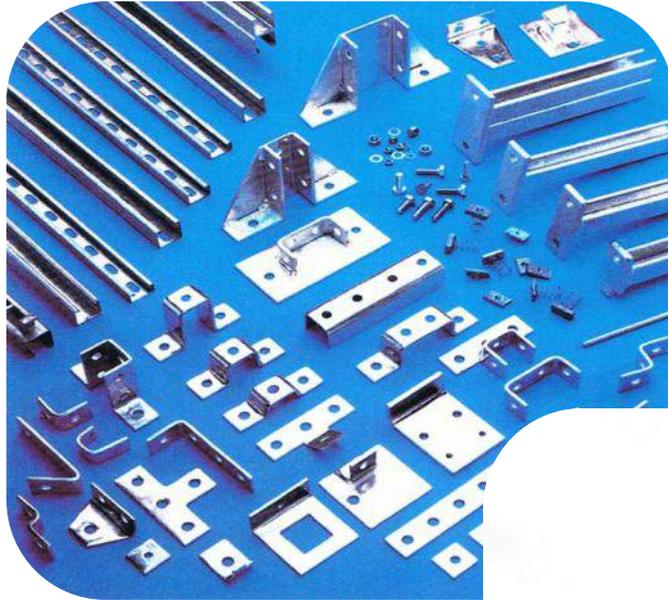
A m t S₉ - L



Code Number Table

Code	Thickness	Length
0	2	500
1	2.5	1000
2		1500
3		2000
4		2500
5		3000
6		3500
7		4000
8		5000
9		6000

JOINT INTRODUCTION



PRODUCT : STRAIGHT CONNECTOR JOINT & COVER CLAMP



Straight

Code Text

A m t J₁ - H

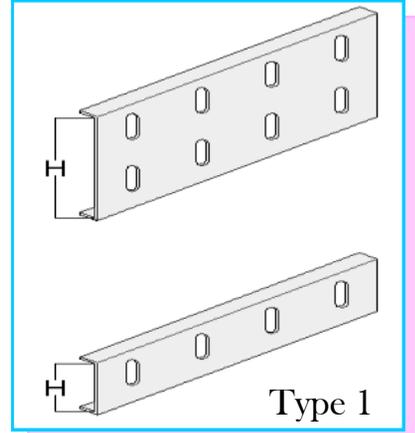


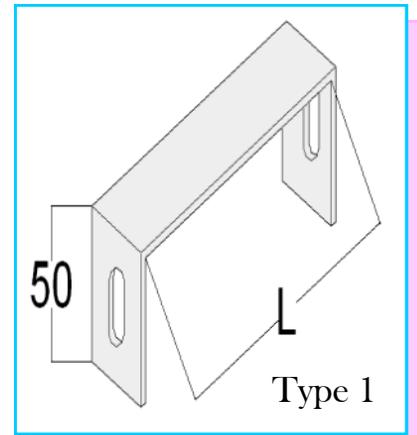
Table Code Number

Code	Thickness	Height
0	1.5	53
1	2	83
2		103
3		153



Cover Clamp

- 1-The suggested thickness of sheet is 1.5 mm.
- 2-The length is 10 mm larger than cable tray and ladder.



Code Text

A m t J₂ - W



Code Number Table

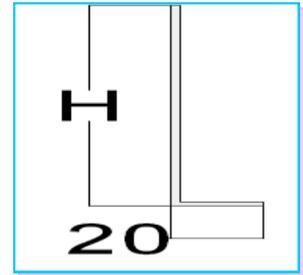
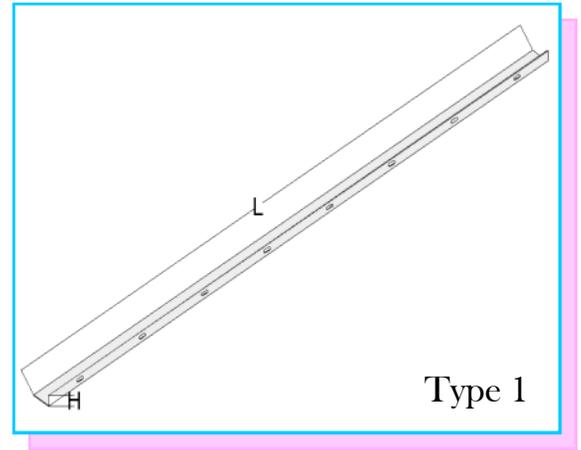
Code	Thickness	Width
0	1.5	110
1		160
2		210
3		310
4		410
5		460
6		610
7		760
8		910

PRODUCT : COVER CLAMP & DIVIDER



Divider

- 1-The height is changeable based on cable tray and ladder height.
- 2-Sheet thickness of 1.5 mm is recommended for divider.
- 3-They can be produced up to 3000 mm in length.
- 4-The existing punches in map is for installation on cable tray and ladder .



Code Number Table			
Code	Thickness	Height	Length
0	1.5	30	1500
1		60	2000
2		80	2500
3		130	3000

