

BASORFIL BFR EZ, HDG, SS304L

Assembly instructions



H1 1/2"

H2"

H4"

H6"



DESCRIPTION	EZ	HDG	SS304L
BFR-4"x 1_1/2"	2/3616	2/0286	2/0303
BFR-6"x 1_1/2"	2/3617	2/0287	2/0304
BFR-8"x 1_1/2"	2/3618	2/0288	2/0305
BFR-12"x 1_1/2"	2/3619	2/0289	2/0306

DESCRIPTION	EZ	HDG	SS304L
BFR 2"x2"	2/3621	2/0290	2/0307
BFR 4"x2"	2/3622	2/0291	2/0308
BFR 6"x2"	2/3623	2/0292	2/0309
BFR 8"x2"	2/3624	2/0293	2/0310
BFR 12"x2"	2/3625	2/0294	2/0311
BFR 16"x2"	2/4407	2/0295	2/0312
BFR 20"x2"	2/4409	2/0296	2/0313
BFR 24x2"	2/3626	2/0297	2/0314

DESCRIPTION	EZ	HDG	SS304L
BFR 4"x4"	2/7914	2/6351	2/8769
BFR 8"x4"	2/4953	2/0298	2/0315
BFR 12"x4"	2/4959	2/0299	2/0316
BFR 16"x4"	2/4960	2/0300	2/0317
BFR 20"x4"	2/4961	2/0301	2/0318
BFR 24"x4"	2/6043	2/0302	2/0319

DESCRIPTION	EZ	HDG
BFR 8"x6"	2/9549	2/9554
BFR 12"x6"	2/9550	2/9555
BFR 16"x6"	2/9551	2/9556
BFR 20"x6"	2/9552	2/9557
BFR 24"x6"	2/9553	2/9558

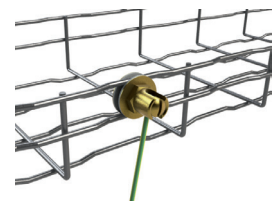
BOLT&STAPLE SET

QUICK JOINT 1 1/2"

QUICK JOINT 2"

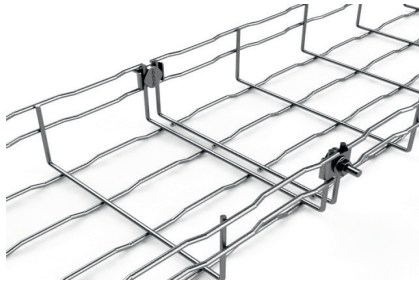
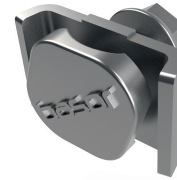
LATERAL UNION SET

GROUND CONNECTION



BOLT & STAPLE SET

DESCRIPTION	ELECTROZINC			HOT DIP GAVANIZED			SS304L		
	REF.	kg/ud	LBS/unit	REF.	kg/ud	LBS/unit	REF.	kg/ud	LBS/unit
BF Bolt-Staple Set	2/4364	0,03	0,066	2/4360	0,03	0,066	2/4915	0,023	0,05



1. Place the bolt inside the cable tray with the thread towards the outside. The slots of the head embrace the transverse rods of the trays to be joined.
2. Place the staple outside the cable tray (the threaded rod of the bolt pass through the hole of the staple) embracing the transverse rods too and the head of the bolt.
3. Apply a 6 Nm Torque with the nut.

Pieces needed per model:

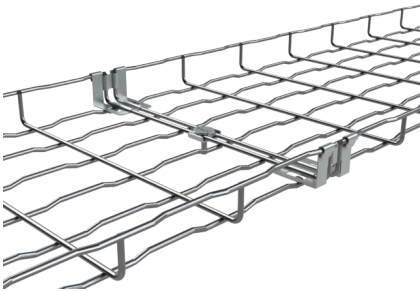
SS304L BOLT

EZ & HDG BOLT			
MODEL	WINGS	BASE (CENTERED)	
100x35	4"x1 1/2"	2	0
150x35	6"x1 1/2"	2	0
200x35	8"x1 1/2"	2	0
300x35	12"x1 1/2"	2	1
60x65	2"x2"	2	0
100x65	4"x2"	2	0
150x65	6"x2"	2	0
200x65	8"x2"	2	0
300x65	12"x2"	2	1
400x65	16"x2"	2	1
450x65	18"x2"	2	1
500x65	20"x2"	2	1
600x65	24"x2"	2	1
100x105	4"x4"	2	1
200x105	8"x4"	2	1
300x105	12"x4"	2	1
400x105	16"x4"	2	1
450x105	18"x4"	2	1
500x105	20"x4"	2	1
600x105	24"x4"	2	1
200x150	8"x6"	2	1
300x150	12"x6"	2	1
400x150	16"x6"	2	1
450x150	18"x6"	2	1
500x150	20"x6"	2	1
600x150	24"x6"	2	1

MODEL	WINGS	HDG TRAYS	SS304L TRAYS
		BASE (CENTERED)	BASE (CENTERED)
100x35	4"x1 1/2"	2	0
150x35	6"x1 1/2"	2	0
200x35	8"x1 1/2"	2	0
300x35	12"x1 1/2"	2	1
60x65	2"x2"	2	0
100x65	4"x2"	2	0
150x65	6"x2"	2	0
200x65	8"x2"	2	0
300x65	12"x2"	2	1
400x65	16"x2"	2	1
450x65	18"x2"	2	1
500x65	20"x2"	2	1
600x65	24"x2"	2	1
100x105	4"x4"	2	1
200x105	8"x4"	2	1
300x105	12"x4"	2	1
400x105	16"x4"	2	1
450x105	18"x4"	2	1
500x105	20"x4"	2	1
600x105	24"x4"	2	1
200x150	8"x6"	2	1
300x150	12"x6"	2	1
400x150	16"x6"	2	1
450x150	18"x6"	2	1
500x150	20"x6"	2	1
600x150	24"x6"	2	1

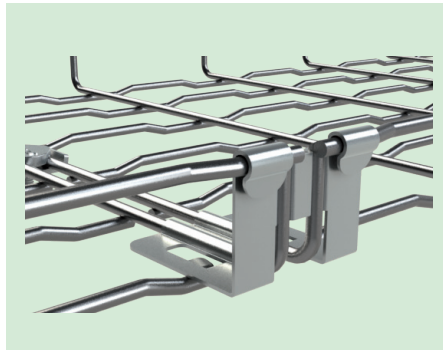
QUICK JOINT H1-1/2" (only for H1-1/2" trays)

DESCRIPTION	ELECTROZINC			HOT DIP GAVANIZED		
	REF.	kg/ud	LBS/unit	REF.	kg/ud	LBS/unit
UR BFR H1_1/2" E-BFR H2"4"	2/7271	0,04	0,088	2/7272	0,04	0,088



1. Carry the cable trays to a distance of about 10 mm.
2. Place the quick joint inside the cable tray in the upper side of the wing of the cable tray.
3. Close the flanges around the rods using standard pliers.
4. After place the union it's necessary to close the flanges around the rods using pliers.

To comply with NEC continuity specifications it is necessary to add one bolt&staple set in the centre of the base of the tray in every model.

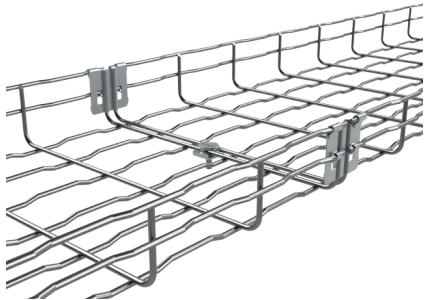


Pieces needed per model:

MODEL		QUICK JOINTS H1-1/2"	BOLT&STAPLE SETS
100x35	4"x1 1/2"	2 (1 each side)	1
150x35	6"x1 1/2"	2	1
200x35	8"x1 1/2"	2	1
300x35	12"x1 1/2"	2	1

QUICK JOINT H2" (only for BFR H2", H4" & H6" trays)

DESCRIPTION	ELECTROZINC			HOT DIP GAVANIZED		
	REF.	kg/ud	LBS/unit	REF.	kg/ud	LBS/unit
UR BFR H2"/4" E-BFR H4"	2/6217	0,03	0,066	2/6219	0,03	0,066

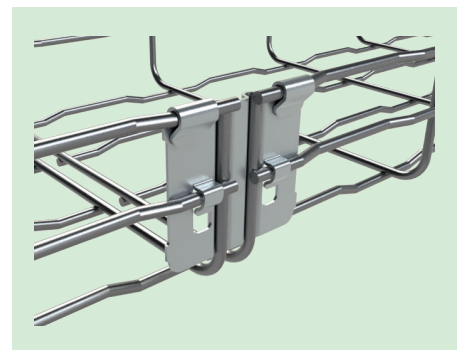
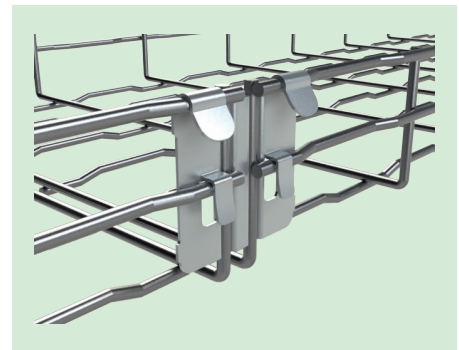


1. Carry the cable trays to a distance of about 10 mm.
2. Place the quick joint inside the cable tray in the upper side of the wing of the cable tray.
3. Close the flanges around the rods using standard pliers.

To comply with NEC continuity specifications it is necessary to add one bolt&staple set in the centre of the base of the tray in every model.

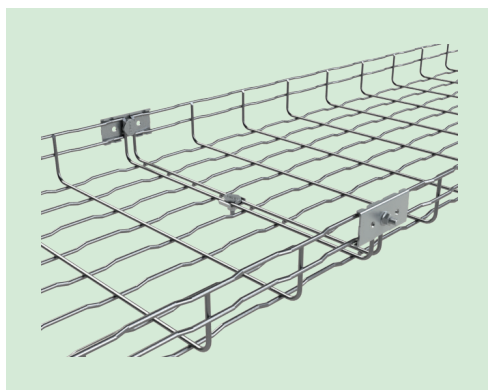
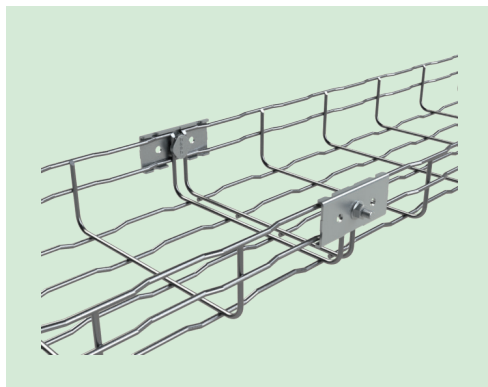
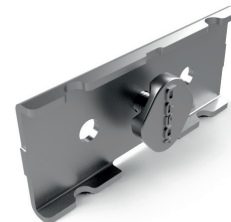
Pieces needed per model:

MODEL		QUICK JOINTS H2"	BOLT&STAPLE SETS
60x65	2"x2"	2 (1 each side)	1
100x65	4"x2"	2	1
150x65	6"x2"	2	1
200x65	8"x2"	2	1
300x65	12"x2"	2	1
400x65	16"x2"	2	1
450x65	18"x2"	2	1
500x65	20"x2"	2	1
600x65	24"x2"	2	1
100x105	4"x4"	2	1
200x105	8"x4"	2	1
300x105	12"x4"	2	1
400x105	16"x4"	2	1
450x105	18"x4"	2	1
500x105	20"x4"	2	1
600x105	24"x4"	2	1
200x150	8"x6"	2	1
300x150	12"x6"	2	1
400x150	16"x6"	2	1
450x150	18"x6"	2	1
500x150	20"x6"	2	1
600x150	24"x6"	2	1



LATERAL UNION SET ULA (only for H2", H4" & H6" trays)

DESCRIPTION	ELECTROZINC			HOT DIP GAVANIZED			SS304L		
	REF.	kg/ud	LBS/unit	REF.	kg/ud	LBS/unit	REF.	kg/ud	LBS/unit
Lateral Union Set ULA 2"/4"	2/4919	0,06	0,132	2/4363	0,06	0,132	2/4921	0,055	0,12



1. Place the bolt inside the cable tray with the thread towards the outside. The slots of the head embrace the transverse rods of the trays to be joined.
2. Place the ULA Plate outside the cable tray (the threaded rod of the bolt pass through the hole of the ULA Plate) embracing the transverse rods too and the head of the bolt.
3. Apply a 6 Nm Torque with the nut.

*For 300 mm or wider models an additional bolt-staple set is required as a central union joint in the base of the tray to improve the load resistance and reduce the deflections."

NOTE: The use of bolt&staple set is recommended to improve the strength of the assembly but not necessary to comply with NEC electrical continuity specification.

Pieces needed per model:

MODEL		QUICK JOINTS H2"	BOLT&STAPLE SETS
60x65	2"x2"	2 (1 each side)	0
100x65	4"x2"	2	0
150x65	6"x2"	2	0
200x65	8"x2"	2	0
300x65	12"x2"	2	1
400x65	16"x2"	2	1
450x65	18"x2"	2	1
500x65	20"x2"	2	1
600x65	24"x2"	2	1
100x105	4"x4"	2	0
200x105	8"x4"	2	0
300x105	12"x4"	2	1
400x105	16"x4"	2	1
450x105	18"x4"	2	1

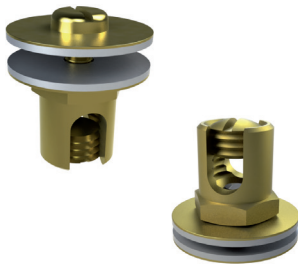
MODEL		QUICK JOINTS H2"	BOLT&STAPLE SETS
500x105	20"x4"	2	1
600x105	24"x4"	2	1
200x150	8"x6"	2	0
300x150	12"x6"	2	1
400x150	16"x6"	2	1
450x150	18"x6"	2	1
500x150	20"x6"	2	1
600x150	24"x4"	2	1

GROUND CONNECTION

To comply with NEC specifications to use BFR/BF2R/E-BFR wire-mesh cable trays as ground conductor, the following models are supplied with ground connection clamps and with an additional ground connection wire 10AWG:

GROUND CONNECTION CLAMP

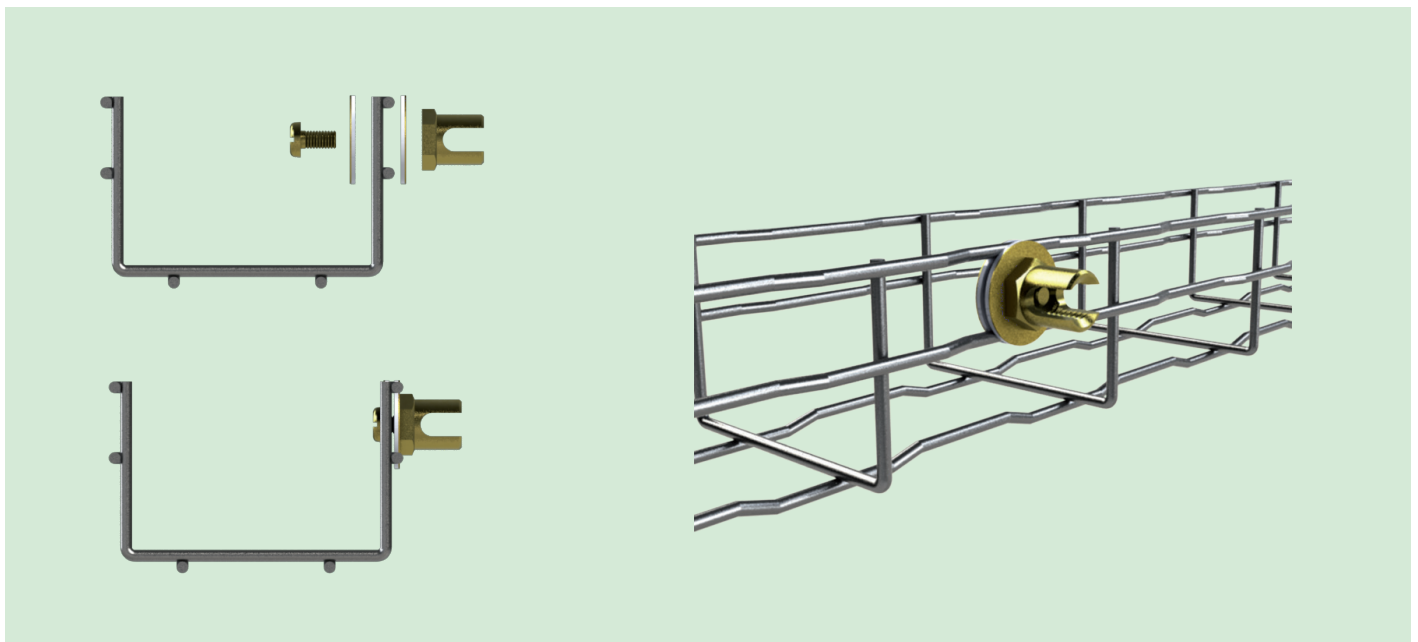
DESCRIPTION	Smax		BRASS		
	inch ²	mm ²	REF.	kg/ud	LBS/unit
GCC 35 M6x0,47"	0,054	35	2/6796	0,04	0,088
GCC 95 M6x0,47"	0,147	95	2/6797	0,07	0,154



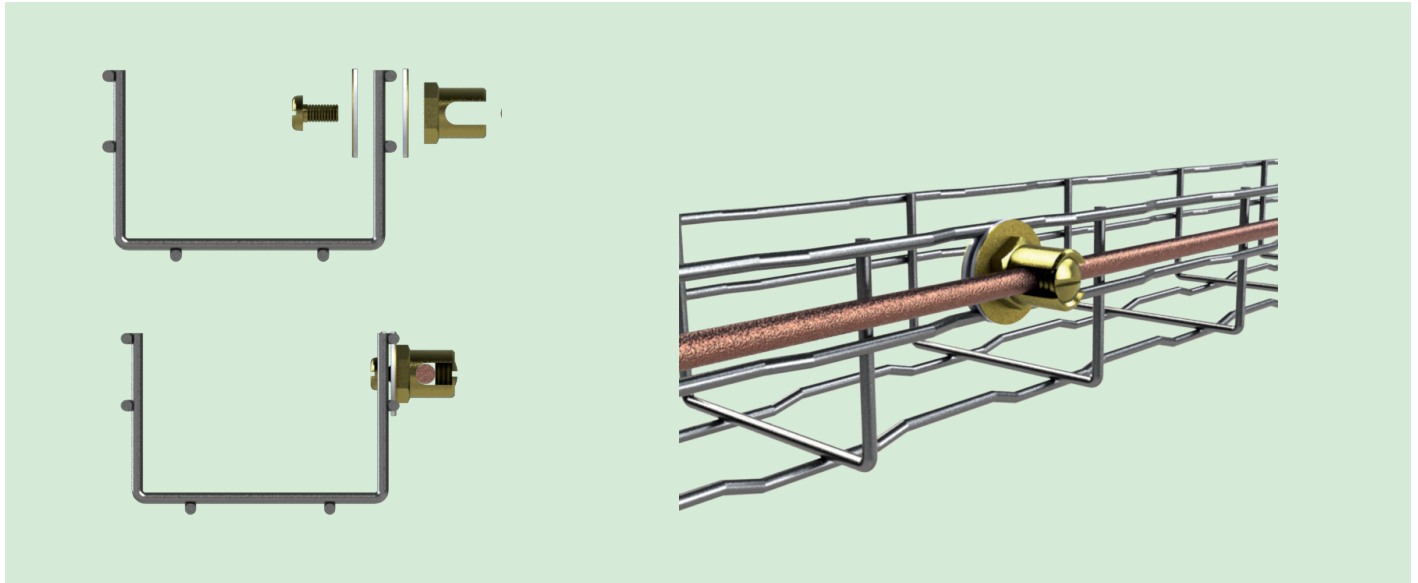
WIDTH		HEIGHT	
(mm)	inch	(mm)	inch
100	4"	35	1" 1/2
150	6"	35	1" 1/2
200	8"	35	1" 1/2
300	12"	35	1" 1/2
60	2"	65	2"
100	4"	65	2"
150	6"	65	2"
200	8"	65	2"
100	4"	105	4"

To assembly the clamps and wires to a tray of 2", 4" or 6" height follow these steps:

- a. Place the ground clamp with the two washers hugging the two wires of the wing of the tray applying 4 Nm torque.



- b. Place one ground clamp as shown every 3 m / 10 ft (one ground clamp per wire-mesh cable tray piece)
- c. Introduce the ground wire into the hole of the ground clamp and make pressure with the rounded nut (4 Nm torque).



To assembly the clamps and wires to a tray of 1_1/2 inches height (only one wire in the wing) follow the same steps but hugging two rods of the base of the tray and adding 2 SSC support pieces between the tray and the ground clamp washers as shown in the following pictures:

