CE TOWNORD AND ADMINISTRATION OF THE PROPERTY AND A

mm

21 - 29

28 - 37

25 - 33

35 - 47

30 - 41

41 - 55

Width

mm

46

48

56

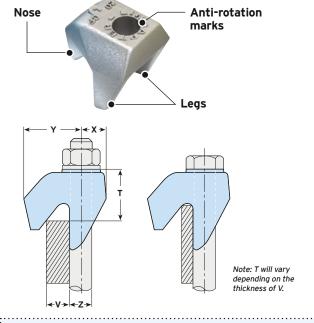
62

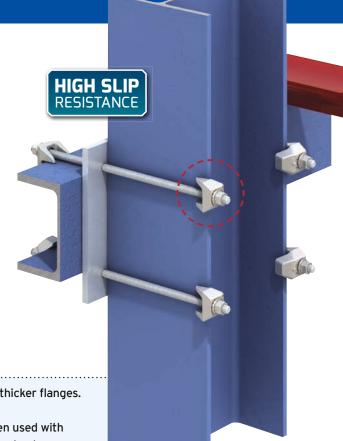
65

70

Type CF

Hooks over the flanges of beams, angles and channels to connect steel sections that do not face, such as connecting horizontal beams with vertical columns.





- New options available to suit larger steel sections with thicker flanges.
- Suitable for parallel and tapered flanges up to 8°.
- Can be combined with other Lindapter HSR clamps when used with property class 8.8 bolts; see table below for safe working loads.
- Location plate / end plate details can be found on page 17.
- Lindapter recommends the use of DTI Washers conforming to EN14399-9 with the Type CF. For further information please refer to page 70.

Material: SG iron, hot dip galvanised.

			Safe Working Loads			
	Product Code	Bolt 8.8 Z	Tensile / 1 Bolt (FOS 5:1)	Slip ¹⁾ / (FOS Painted Steelwork ²⁾		Tightening Torque*
			kN	kN	kN	Nm
	CF12	M12	8.5	3.4	3.9	90
NEW	CF212	M12	8.5	3.4	3.9	90
	CF16	M16	16	8	10	240
NEW	CF216	M16	16	8	10	240
	CF20	M20	26.3	13	16	470
NEW	CF220	M20	26.3	13	16	470
CF combinations with other Lindapter clamps	CF + A ³⁾	M12	5.8	0.7	0.7	69
	CF + A ³⁾	M16	7.3	1.5	1.5	147
	CF + A ³⁾	M20	14.7	3.0	3.0	285
	CF+AF/AAF	M12	8.5	3.4	3.9	90
	CF+AF/AAF	M16	16.0	8.0	10.0	240
	CF+AF/AAF	M20	26.3	13.0	16.0	470

1) Slip resistant values calculated against movement exceeding

Dimensions

Х

mm

14

16

18

21

22

27

2) Shot blast and painted steelwork

mm

32

39

44

50

53

64

Clamping

Range V

mm

6 - 13

12 - 20

8 - 16

15 - 25

10 - 19

18 - 30

- 3) Also applies to Type B (page 9), Type LR (page 18), Type D2
- (page 19) and Type BR (page 31). Torque figures based on bolts / setscrews in an unlubricated condition. For further information on lubricated fasteners see page 70.



For Characteristic Resistances when designing a connection to Eurocode 3, please refer to DoP No.011 on the website www.Lindapter.com/About/CE

Strut & Supply, Inc.

28005 W. Commercial Ave. Barrington, IL 60010 Ph: 847.756.4337 Fx: 847.304.1891 email: CustomerService@strutandsupply.com



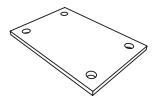
Location and End Plates for Types AF, AAF and CF

These plates ensure the clamps and bolts are located in the correct position relative to the supporting steelwork. If you would like help choosing a suitable plate, please contact Lindapter.

Location Plate

What is it?

Location plates are simple fabricated items designed to sit between the two sections to be clamped together to ensure the bolts are fixed at the correct centres.



Material: Structural steel grade S355 JR, JO or J2. For other grades contact Lindapter.

Bolt Size	Hole Ø	Plate Thickness		Hole Centres	Length	Hole Centres	Width
	d mm	8.8 mm	10.9 mm	C1 mm	min L1 mm	C2 mm	min L2 mm
M12	14	10	12	B1 + 14	B1 + 90	B2 + 14	B2 + 90
M16	18	15	15	B1 + 18	B1 + 110	B2 + 18	B2 + 110
M20	22	20	20	B1 + 22	B1 + 150*	B2 + 22	B2 + 150*
M24	26	25	25	B1 + 26	B1 + 180	B2 + 26	B ₂ + 180

^{*} Plate length / width for Type AF size M20 can be reduced to 130mm if required.

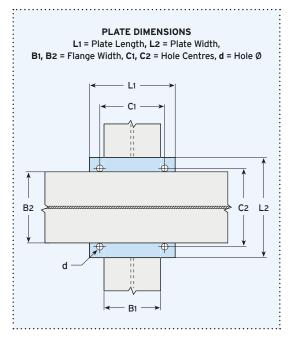


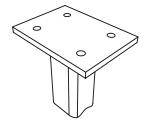
PLATE DIMENSIONS L1 = Plate Length, L2 = Plate Width,

B = Flange Width, C1, C2 = Hole Centres, d = Hole Ø

End Plate ······

What is it?

End plates are simple fabricated items that are pre-welded to support frames, bracket or sections, allowing connection to the supporting structure with standard Lindapter clamps.



Material: Structural steel grade S355 JR, JO or J2. For other grades contact Lindapter.

Bolt Size	Hole Ø	Plate Thickness ¹⁾		Hole Centres	Length	Hole Centres	Width
	d mm	8.8 mm	10.9 mm	C1 mm	min L ₁ mm	min C2 mm	min L2 mm
M12	14	15	20	B + 14	B + 90	80	C2 + 80
M16	18	20	25	B + 18	B + 110	100	C2 + 100
M20	22	25	25	B + 22	B + 150*	180	C2 + 180
M24	26	30	30	B + 26	B + 180	200	C ₂ + 200

^{*} Plate length for Type AF size M20 can be reduced to 130 if required.

👂 To calculate the bolt length, add up the total distance that the bolt will pass through, plus half of the bolt diameter. Then round up the total to the nearest available bolt length. An example can be found on page 6.

lindapter

28005 W. Commercial Ave. Barrington, IL 60010 Ph: 847.756.4337 Fx: 847.304.1891 email: CustomerService@strutandsupply.com

¹⁾ Depending on the type of connection and associated end plate use, the thickness may need to be modified to comply with accepted local design codes.