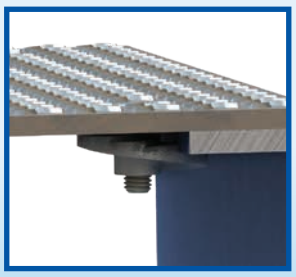
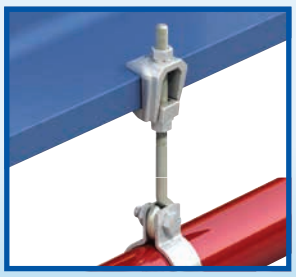
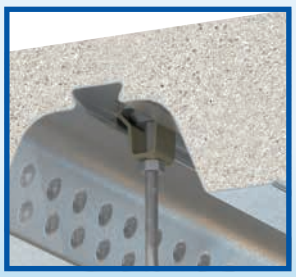
July 2025

Inventor of the Girder Clamp
Est. 1934
lindapter
Accept no substitute
and Hollo-Bolt®

lindapter®
Established 1934

Technical Innovation in Steelwork Connections

The Hollo-Bolt HCF (High Clamping Force) is optimised for higher strength structural connections (**see page 45**).

Hollo-Bolt™

Lindapter's expansion bolts require access to only one side of the Structural Hollow Section (SHS), and offer a faster alternative to welding or through-bolting, enabling contractors to reduce construction time and labour costs.

The Hollo-Bolt is independently approved for primary structural connections (**see pages 43-53**). The LindiBolt is ideal for applications in standard clearance holes (**page 54**).

Hollo-Bolt™
pages 43 - 53

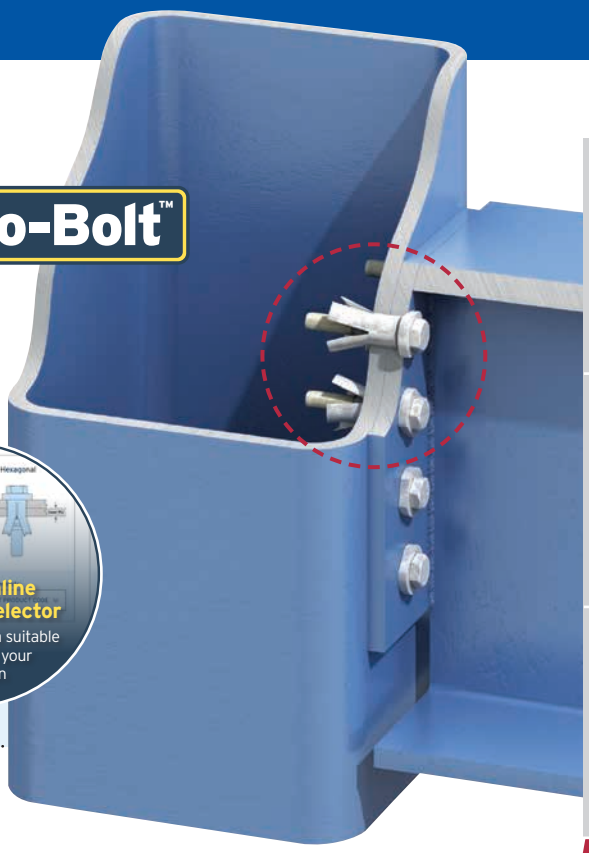
LindiBolt™
page 54

Hollo-Bolt™ by Lindapter

Installation is quickly carried out by inserting into pre-drilled steelwork and tightening with a torque wrench. Independent approvals include UKCA, CE Mark, TÜV, ICC-ES seismic accreditation and Fire Rated up to 120 minutes.

UKCA CE TÜVNORD ICC ES USA Seismic Approval See ESR-3330 Fire Rated to ISO 834

Hollo-Bolt HCF (High Clamping Force)
See page 45



- Fast, cost saving installation from one side.
- For square, rectangular and circular hollow sections.
- High resistance to shear and tension.
- Independently tested for dynamic loading.
- Independently fire tested.
- Independently fire tested.
- Unique High Clamping Force design.
- Low temperature tested to -45°C (carbon steel variants).
- Hollo-Bolt plug-in tool available in Tekla Warehouse.

Carbon steel, Hexagonal Head Hollo-Bolts in all sizes have been independently fire tested in both tension and shear in accordance with ISO 834 and are fire rated up to 120 minutes. For further details and load data please contact Lindapter.

Hollo-Bolt Options

Hollo-Bolts are available in a range of head types for a variety of architectural finishes...

KEY ✔ Standard Option ✓ Available on request

		Head Variants		
		HEXAGONAL Normal visible protrusion	**COUNTERSUNK** Minimal visible protrusion	**FLUSH FIT** Zero visible protrusion
	Sizes Available			
Core Bolt Ø	M8	✔ Fire Rated*	✔	✔
	M10	✔ Fire Rated*	✔	✔
	M12	✔ Fire Rated*	✔	✔
	M16 HCF (High Clamping Force)	✔ Fire Rated*	✔	-
	M20 HCF (High Clamping Force)	✔ Fire Rated*	-	-
	Corrosion Protection			
Carbon Steel with finish	Zinc Plated plus JS500	✔ Fire Rated*	✔	✔
	Hot Dip Galvanised	✔ Fire Rated*	-	-
	Sheraplex	✓ Fire Rated*	✔	✔
	Stainless Steel	✔	✔	✔

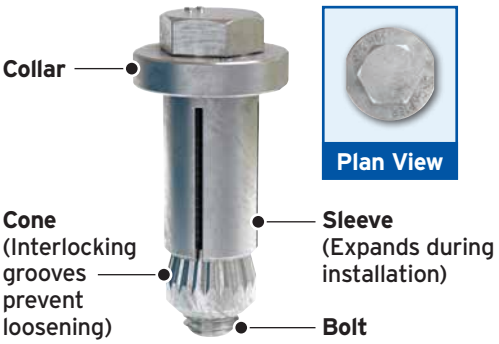
Sizes M16 and M20, known as the Hollo-Bolt HCF, feature a High Clamping Force mechanism to produce three times more clamping force than the same sized product without the mechanism. See page 45 for more information.

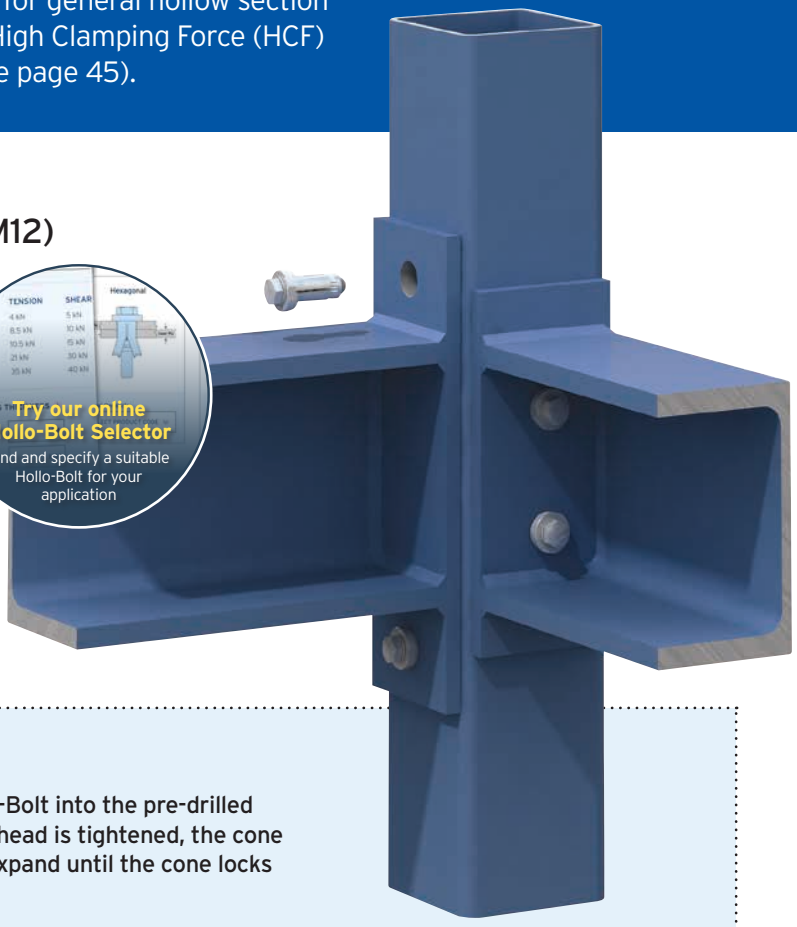
HIGH CLAMPING FORCE

Hollo-Bolt Options

Two versions are available; the original design for general hollow section connections (see below) and the larger sized High Clamping Force (HCF) for higher strength structural connections (see page 45).

Hollo-Bolt™ (sizes M8, M10 and M12)

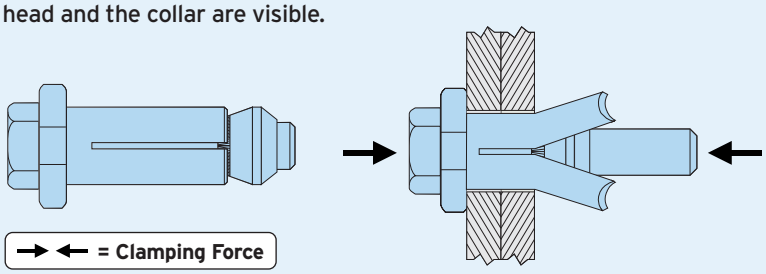


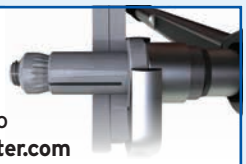


The Connection Concept

A typical connection is made by inserting the Hollo-Bolt into the pre-drilled holes of the fixture and hollow section. As the bolt head is tightened, the cone is pulled up the bolt thread, causing the sleeve to expand until the cone locks the sleeve against the hollow section's inner wall.

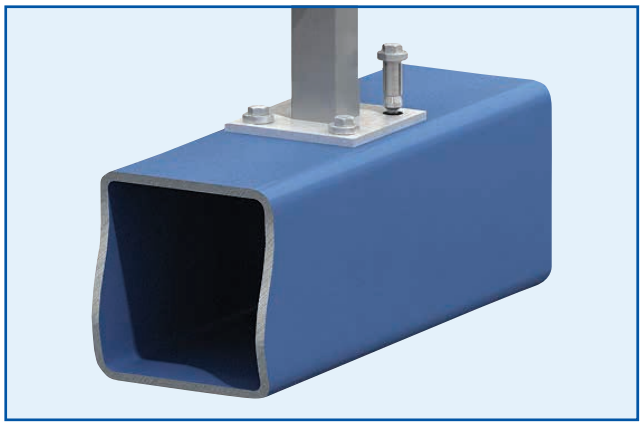
At full tightening torque, a clamping force is established between the fixture and the steel section to form a secure connection. Once installed, only the head and the collar are visible.

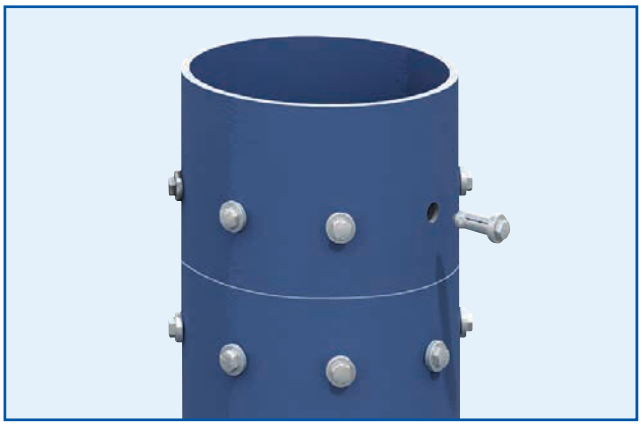




Watch the video at **www.Lindapter.com** to see how the Hollo-Bolt expands during installation.

Typical Applications



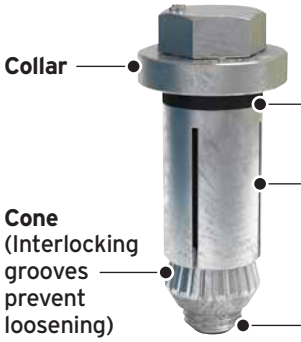


Ref: LindUKJul25

Hollo-Bolt HCF

The larger M16 and M20 Hollo-Bolts are optimised for high strength structural connections and feature a High Clamping Force mechanism for superior performance.

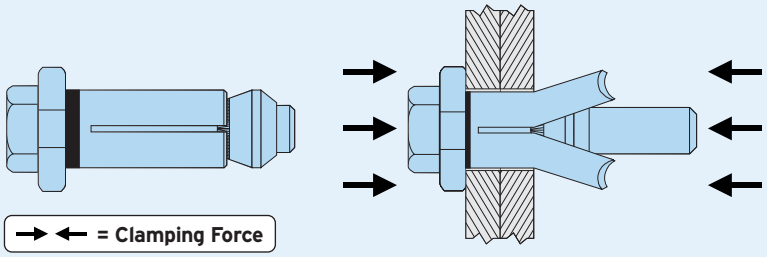
Hollo-Bolt™ HCF (sizes M16 and M20)

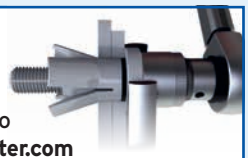


The Connection Concept

The HCF mechanism consists of a special rubber washer that compresses during installation to significantly increase the clamping force between the connecting steel, thereby reducing displacement to achieve a higher strength connection.

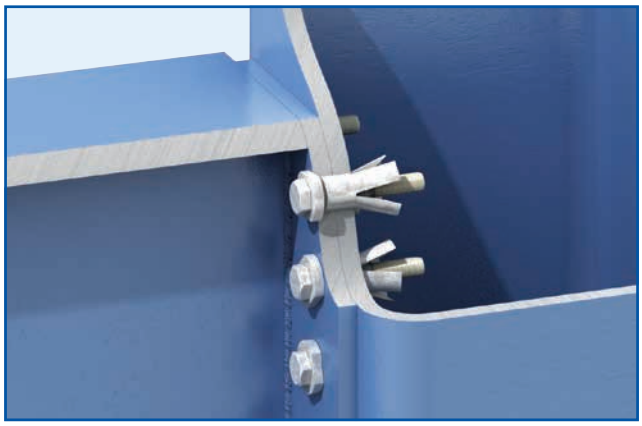
The typical clamping force of Hollo-Bolt HCF is over **three times higher** than the same sized product without the mechanism.

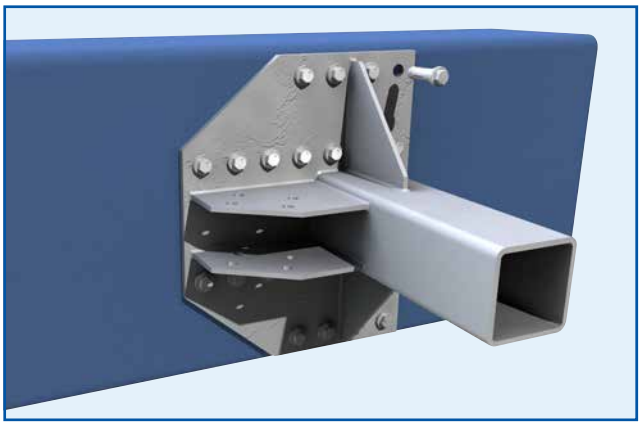




Watch the video at **www.Lindapter.com** to see how the High Clamping Force mechanism increases clamping force.

Typical Applications





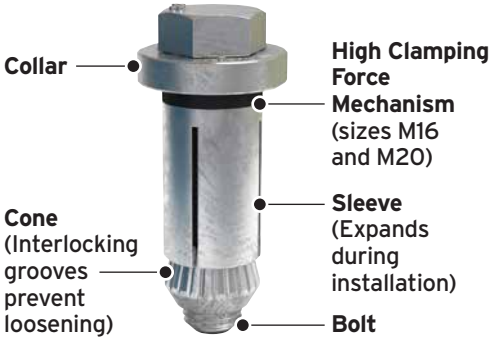
Hollo-Bolt™ Hexagonal Head Safe Working Loads

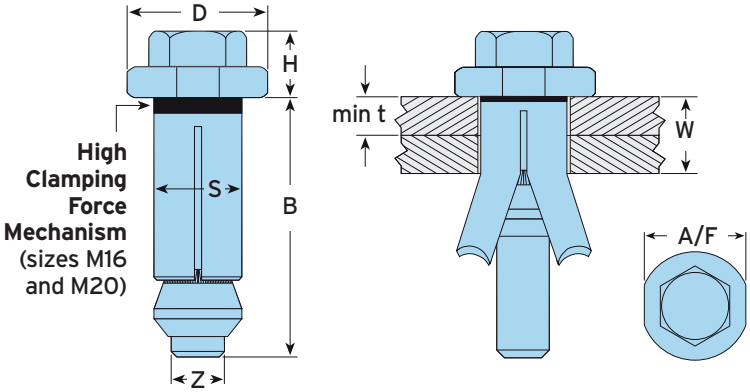
UK CA CE ICC ES TÜVNORD Dynamic Load Approved Fire Rated to ISO 834

Hexagonal Head Data

(Available in sizes M8, M10, M12, M16 & M20)

Hollo-Bolt™





Material: Carbon steel or stainless steel (see page 43 for corrosion protection options).

HEXAGONAL HEAD DATA

	Product Code	Bolt Ø Z	Height H mm	Length B (max) mm	Clamping Thickness W mm	Outer Ply min t mm	Collar Sleeve Outer Ø S mm	Collar Ø D mm	Collar A/F mm	Tightening Torque Nm	Safe Working Loads (Factor of Safety 5:1) Tensile kN	Safe Working Loads (Factor of Safety 5:1) Single Shear kN
	HB08-1	M8	10.5	45	3 - 22	-	13.75	22	19	23	4.0	5.0
	HB08-2	M8	10.5	65	22 - 41	-	13.75	22	19	23	4.0	5.0
	HB08-3	M8	10.5	85	41 - 60	-	13.75	22	19	23	4.0	5.0
	HB10-1	M10	12.5	49	3 - 22	-	17.75	29	24	45	8.5	10.0
	HB10-2	M10	12.5	64	22 - 41	-	17.75	29	24	45	8.5	10.0
	HB10-3	M10	12.5	84	41 - 60	-	17.75	29	24	45	8.5	10.0
	HB12-1	M12	14.5	53	3 - 25	-	19.75	32	30	80	10.5	15.0
	HB12-2	M12	14.5	73	25 - 47	-	19.75	32	30	80	10.5	15.0
	HB12-3	M12	14.5	93	47 - 69	-	19.75	32	30	80	10.5	15.0
Hollo-Bolt HCF	HB16-1	M16	18	67	12 - 29	8	25.75	38	36	190	21.0	30.0
Hollo-Bolt HCF	HB16-2	M16	18	92	29 - 50	8	25.75	38	36	190	21.0	30.0
Hollo-Bolt HCF	HB16-3	M16	18	112	50 - 71	8	25.75	38	36	190	21.0	30.0
Hollo-Bolt HCF	HB20-1	M20	22.5	80	12 - 34	8	32.75	51	46	300	35.0	40.0
Hollo-Bolt HCF	HB20-2	M20	22.5	110	34 - 60	8	32.75	51	46	300	35.0	40.0
Hollo-Bolt HCF	HB20-3	M20	22.5	140	60 - 86	8	32.75	51	46	300	35.0	40.0

- **Hollo-Bolts can be used on a wide variety of steel hollow shape sections. Safe working loads shown are applicable to the Hollo-Bolt only in both tension and shear. Failure of the section could occur at a lower figure and its strength should be checked by a qualified Structural Engineer.**
- **Dynamic load testing has been performed for Hollo-Bolt Hexagonal in accordance with EN 1993-1-9. Please contact our Technical Support team for more information and design data.**

Published by the SCI/BCSA Connections Group, 'Joints in Steel Construction - Simple Connections' provides design guidance for using Hollo-Bolt and structural steelwork connections in buildings designed using the 'Simple Method' i.e. braced frames where connections carry mainly shear and axial loads only. For more information please contact The Steel Construction Institute on **+44 (0) 1344 636525** or visit **www.steel-sci.com**

Hollo-Bolt™ Hexagonal Head Characteristic Resistances

Characteristic Resistances

The values listed in the tables below are to be used when designing bolted connection to Eurocode 3 only, they are not standard safe working loads.

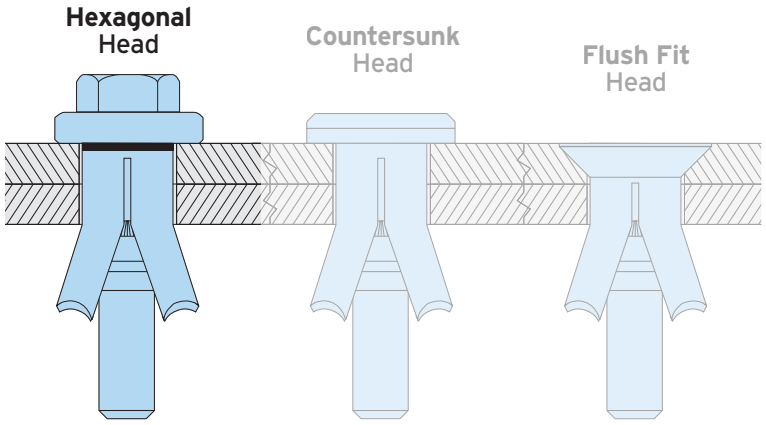
Please refer to CE Declaration of Performance No.001 or UKCA Declaration of Conformity No.101 on Lindapter's website. Alternatively, request a DoP or DoC brochure.

	HEXAGONAL HEAD Data for Zinc + JS500, HDG and Sheraplex				
	Product Code	Nominal Size	Tensile $F_{t,Rk}$ kN	Shear $F_{v,Rk}$ kN	Sleeve Material Strength N/mm²
	HB08	M8	23.1	32.9	430
	HB10	M10	39.6	54.2	430
	HB12	M12	45.8	71.0	430
HCF	HB16	M16	84.3	139.0	430
	HB20	M20	124.0	211.0	390

	HEXAGONAL HEAD Data for Stainless Steel				
	Product Code	Nominal Size	Tensile $F_{t,Rk}$ kN	Shear $F_{v,Rk}$ kN	Sleeve Material Strength N/mm²
	HBST08	M8	26.8	30.7	500
	HBST10	M10	46.0	51.0	500
	HBST12	M12	53.3	65.0	500
HCF	HBST16	M16	98.0	128.0	500
	HBST20	M20	154.0	205.0	500

- **Hollo-Bolt lengths 1, 2 and 3 are covered by ETA 10/0416. The characteristic values are used to determine the design resistance of the Hollo-Bolt. The design resistance is calculated by dividing the characteristic value by a partial factor γM2. The partial factor is a nationally determined parameter (eg: γM2 = 1.25 in UK).**
- **For Hollo-Bolt Hexagonal Head safe working loads with a Factor of Safety of 5:1 please refer to the table on page 46 of this catalogue. The characteristic values are valid for the assembly itself, in any connection detail the design resistance of the connection may be limited to a lesser value. For example, when the thickness of the connected component is small, pull out failure may occur before failure of the Hollo-Bolt. Design checks should be carried out to determine the static design resistance.**

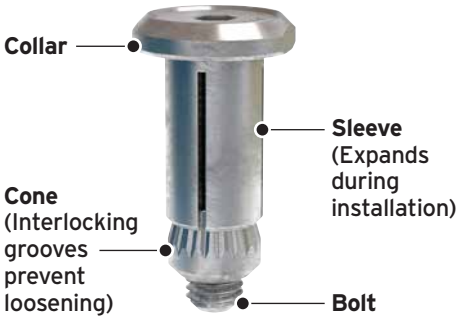
The SCI Greenbook publication 'Joints in Steel Construction: Simple Joints to Eurocode 3' contains a number of checks on the section. The characteristic values are only valid when the Hollo-Bolts are installed as per Lindapter's installation instructions. For more information please contact The Steel Construction Institute on **+44 (0) 1344 636525** or visit **www.steel-sci.com**

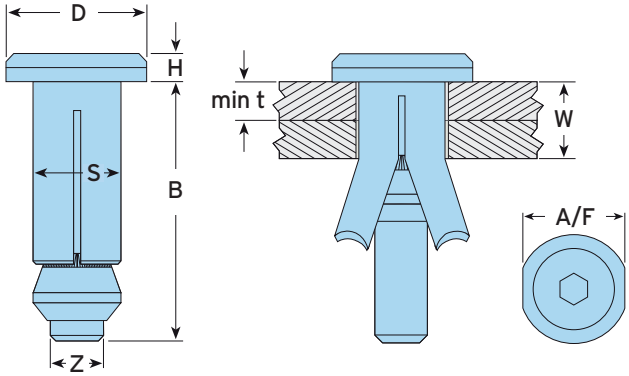


Hollo-Bolt™ Countersunk Head Safe Working Loads

Countersunk Head Data

(Available in sizes M8, M10, M12 & M16)





Material: Carbon steel or stainless steel (see page 43 for corrosion protection options).

COUNTERSUNK HEAD DATA

	Product Code	Bolt Ø Z	Height H mm	Length B (max) mm	Clamping Thickness W mm	Outer Ply min t mm	Collar Sleeve Outer Ø S mm	Collar Ø D mm	Collar A/F mm	Tightening Torque Nm	Safe Working Loads (Factor of Safety 5:1) Tensile kN	Safe Working Loads (Factor of Safety 5:1) Single Shear kN
	HBCSK08-1	M8	5	45	3 - 22	-	13.75	22	19	23	4.0	5.0
	HBCSK08-2	M8	5	65	22 - 41	-	13.75	22	19	23	4.0	5.0
	HBCSK08-3	M8	5	85	41 - 60	-	13.75	22	19	23	4.0	5.0
	HBCSK10-1	M10	6	44	3 - 22	-	17.75	29	24	45	8.5	10.0
	HBCSK10-2	M10	6	64	22 - 41	-	17.75	29	24	45	8.5	10.0
	HBCSK10-3	M10	6	84	41 - 60	-	17.75	29	24	45	8.5	10.0
	HBCSK12-1	M12	7	48	3 - 25	-	19.75	32	30	80	10.5	15.0
	HBCSK12-2	M12	7	73	25 - 47	-	19.75	32	30	80	10.5	15.0
	HBCSK12-3	M12	7	93	47 - 69	-	19.75	32	30	80	10.5	15.0
HCF	HBCSK16-1	M16	8	62	12 - 29	8	25.75	38	36	190	21.0	30.0
HCF	HBCSK16-2	M16	8	92	29 - 50	8	25.75	38	36	190	21.0	30.0
HCF	HBCSK16-3	M16	8	112	50 - 71	8	25.75	38	36	190	21.0	30.0

Hollo-Bolts can be used on a wide variety of steel hollow shape sections. Safe working loads shown are applicable to the Hollo-Bolt only in both tension and shear. Failure of the section could occur at a lower figure and its strength should be checked by a qualified Structural Engineer.

Published by the SCI/BCSA Connections Group, 'Joints in Steel Construction - Simple Connections' provides design guidance for using Hollo-Bolt and structural steelwork connections in buildings designed using the 'Simple Method' i.e. braced frames where connections carry mainly shear and axial loads only. For more information please contact The Steel Construction Institute on **+44 (0) 1344 636525** or visit **www.steel-sci.com**

Hollo-Bolt™ Countersunk Head Characteristic Resistances

Characteristic Resistances

The values listed in the tables below are to be used when designing bolted connection to Eurocode 3 only, they are not standard safe working loads.

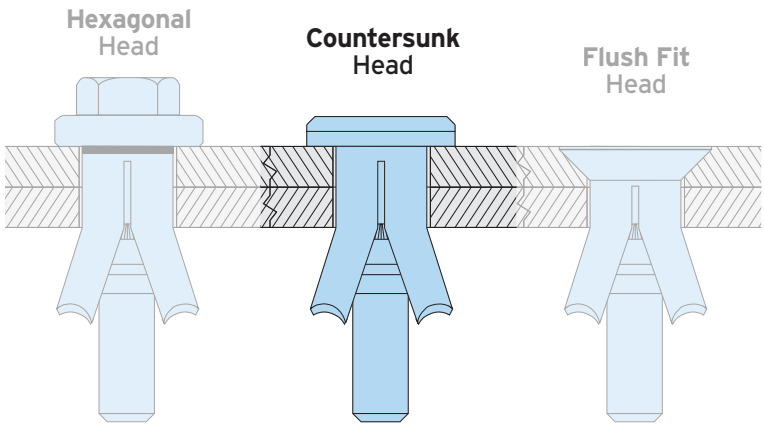
Please refer to CE Declaration of Performance No.001 or UKCA Declaration of Conformity No.101 on Lindapter's website. Alternatively, request a DoP or DoC brochure.

	COUNTERSUNK HEAD Data for Zinc + JS500 and Sheraplex				
	Product Code	Nominal Size	Tensile $F_{t,Rk}$ kN	Shear $F_{v,Rk}$ kN	Sleeve Material Strength N/mm²
	HBCSK08	M8	23.1	32.9	430
	HBCSK10	M10	39.6	54.2	430
	HBCSK12	M12	45.8	71.0	430
HCF	HBCSK16	M16	84.3	139.0	430

	COUNTERSUNK HEAD Data for Stainless Steel				
	Product Code	Nominal Size	Tensile $F_{t,Rk}$ kN	Shear $F_{v,Rk}$ kN	Sleeve Material Strength N/mm²
	HBSTCSK08	M8	26.8	30.7	500
	HBSTCSK10	M10	46.0	51.0	500
	HBSTCSK12	M12	53.3	65.0	500
HCF	HBSTCSK16	M16	98.0	128.0	500

- **Hollo-Bolt lengths 1, 2 and 3 are covered by ETA 10/0416. The characteristic values are used to determine the design resistance of the Hollo-Bolt. The design resistance is calculated by dividing the characteristic value by a partial factor γM2. The partial factor is a nationally determined parameter (eg: γM2 = 1.25 in UK).**
- **For Hollo-Bolt Countersunk Head safe working loads with a Factor of Safety of 5:1 please refer to the table on page 48 of this catalogue. The characteristic values are valid for the assembly itself, in any connection detail the design resistance of the connection may be limited to a lesser value. For example, when the thickness of the connected component is small, pull out failure may occur before failure of the Hollo-Bolt. Design checks should be carried out to determine the static design resistance.**

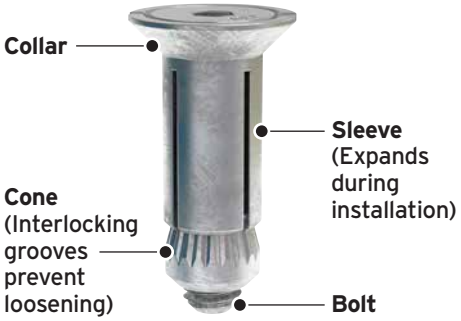
The SCI Greenbook publication 'Joints in Steel Construction: Simple Joints to Eurocode 3' contains a number of checks on the section. The characteristic values are only valid when the Hollo-Bolts are installed as per Lindapter's installation instructions. For more information please contact The Steel Construction Institute on **+44 (0) 1344 636525** or visit **www.steel-sci.com**

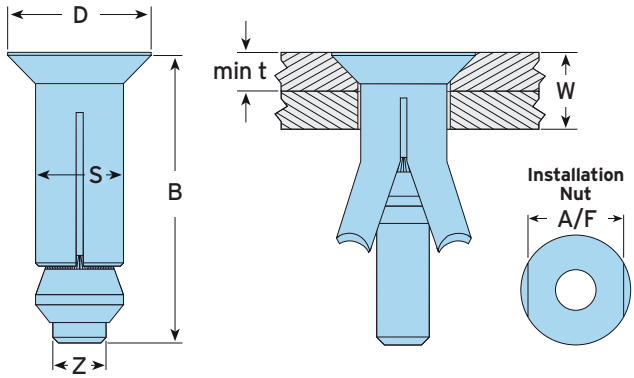


Hollo-Bolt™ Flush Fit Head Safe Working Loads

Flush Fit Head Data

(Available in sizes M8, M10 & M12)





Material: Carbon steel or stainless steel (see page 43 for corrosion protection options).

FLUSH FIT HEAD DATA

Product Code	Countersunk Bolt Ø Z	Length B mm	Clamping Thickness W mm	Outer Ply min t mm	Sleeve Outer Ø S mm	Collar Ø D mm	Collar Installation Nut A/F mm	Tightening Torque Nm	Safe Working Loads (Factor of Safety 5:1) Tensile kN	Safe Working Loads (Factor of Safety 5:1) Single Shear kN
HBFF08-1	M8	50	10 - 27	8	13.75	24	19	23	4.0	5.0
HBFF08-2	M8	70	27 - 45	8	13.75	24	19	23	4.0	5.0
HBFF08-3	M8	90	45 - 64	8	13.75	24	19	23	4.0	5.0
HBFF10-1	M10	50	12 - 27	10	17.75	30	24	45	8.5	10.0
HBFF10-2	M10	70	27 - 45	10	17.75	30	24	45	8.5	10.0
HBFF10-3	M10	90	45 - 64	10	17.75	30	24	45	8.5	10.0
HBFF12-1	M12	55	12 - 30	10	19.75	33	30	80	10.5	15.0
HBFF12-2	M12	80	30 - 52	10	19.75	33	30	80	10.5	15.0
HBFF12-3	M12	100	52 - 74	10	19.75	33	30	80	10.5	15.0

Hollo-Bolts can be used on a wide variety of steel hollow shape sections. Safe working loads shown are applicable to the Hollo-Bolt only in both tension and shear. Failure of the section could occur at a lower figure and its strength should be checked by a qualified Structural Engineer.

Published by the SCI/BCSA Connections Group, 'Joints in Steel Construction - Simple Connections' provides design guidance for using Hollo-Bolt and structural steelwork connections in buildings designed using the 'Simple Method' i.e. braced frames where connections carry mainly shear and axial loads only. For more information please contact The Steel Construction Institute on **+44 (0) 1344 636525** or visit **www.steel-sci.com**

Hollo-Bolt™ Flush Fit Head Characteristic Resistances

Characteristic Resistances

The values listed in the tables below are to be used when designing bolted connection to Eurocode 3 only, they are not standard safe working loads.

Please refer to CE Declaration of Performance No.001 or UKCA Declaration of Conformity No.101 on Lindapter's website. Alternatively, request a DoP or DoC brochure.

FLUSH FIT HEAD
Data for Zinc + JS500 and Sheraplex

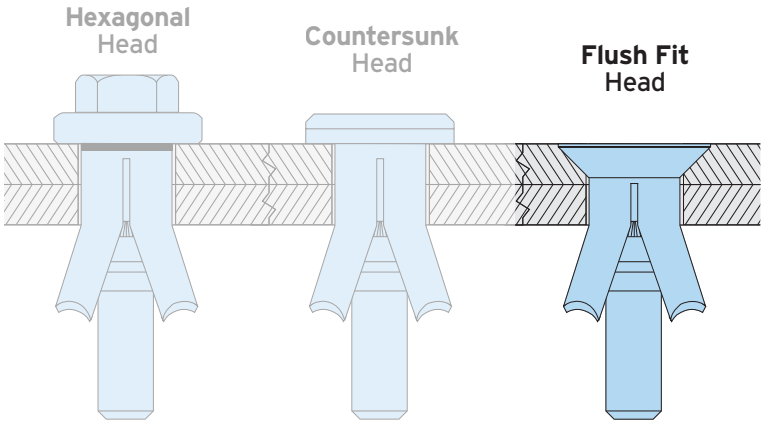
Product Code	Nominal Size	Tensile $F_{t,Rk}$ kN	Shear $F_{v,Rk}$ kN	Sleeve Material Strength N/mm²
HBFF08	M8	23.1	32.9	430
HBFF10	M10	39.6	54.2	430
HBFF12	M12	45.8	71.0	430

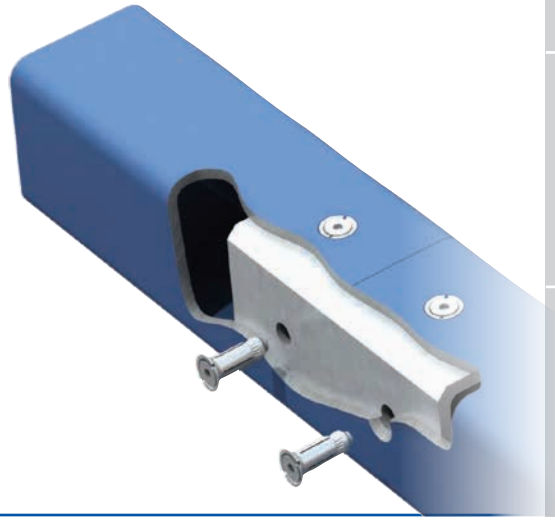
FLUSH FIT HEAD
Data for Stainless Steel

Product Code	Nominal Size	Tensile $F_{t,Rk}$ kN	Shear $F_{v,Rk}$ kN	Sleeve Material Strength N/mm²
HBSTFF08	M8	26.8	30.7	500
HBSTFF10	M10	46.0	51.0	500
HBSTFF12	M12	53.3	65.0	500

- **Hollo-Bolt lengths 1, 2 and 3 are covered by ETA 10/0416. The characteristic values are used to determine the design resistance of the Hollo-Bolt. The design resistance is calculated by dividing the characteristic value by a partial factor γM2. The partial factor is a nationally determined parameter (eg: γM2 = 1.25 in UK).**
- **For Hollo-Bolt Flush Fit Head safe working loads with a Factor of Safety of 5:1 please refer to the table on page 50 of this catalogue. The characteristic values are valid for the assembly itself, in any connection detail the design resistance of the connection may be limited to a lesser value. For example, when the thickness of the connected component is small, pull out failure may occur before failure of the Hollo-Bolt. Design checks should be carried out to determine the static design resistance.**

The SCI Greenbook publication 'Joints in Steel Construction: Simple Joints to Eurocode 3' contains a number of checks on the section. The characteristic values are only valid when the Hollo-Bolts are installed as per Lindapter's installation instructions. For more information please contact The Steel Construction Institute on **+44 (0) 1344 636525** or visit **www.steel-sci.com**

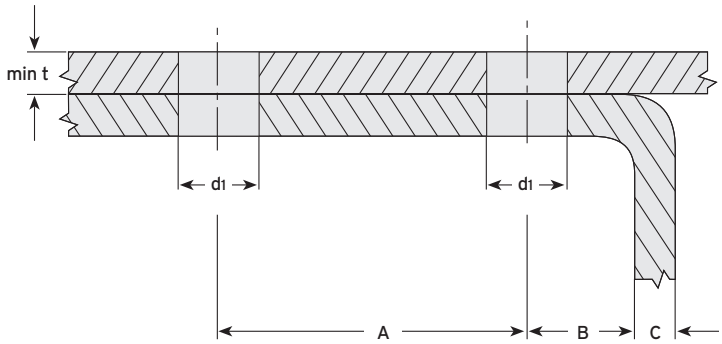




Hollo-Bolt Hexagonal and Countersunk - Drilling and Installation

Please ensure that the holes are drilled into both the fixture and the section according to the drilling guidance below. Please note that the holes are slightly larger than standard bolt clearance holes to accommodate the sleeve and cone.

Preparation for installing Hollo-Bolt Hexagonal and Countersunk



Type		Outer Ply	Clearance Hole Ø*	Hole Distances**		Edge Distances**
Hexagonal	Countersunk	min t mm	d1 mm	min A mm	min B mm	B + C mm
HB08	HBCSK08	-	14 (+1.0/-0.2)	35	13	≥ 17.5
HB10	HBCSK10	-	18 (+1.0/-0.2)	40	15	≥ 22.5
HB12	HBCSK12	-	20 (+1.0/-0.2)	50	18	≥ 25.0
HB16	HBCSK16	8	26 (+2.0/-0.2)	55	20	≥ 32.5
HB20	-	8	33 (+2.0/-0.2)	70	25	≥ 33.0

** For Hollo-Bolts with Hot Dip Galvanised Finish, drilling the clearance hole to the top tolerance is recommended.*
*** Ensure holes do not cut through the outer radius.*

Sizes M16 and M20 require outer ply thickness (min t) to be at least 8mm.

Tool sizes for installing Hollo-Bolt Hexagonal

Hollo-Bolt Hexagonal			
Product Code	Spanner mm	Socket mm	Tightening Torque Nm
HB08	19	13	23
HB10	24	17	45
HB12	30	19	80
HB16	36	24	190
HB20	46	30	300

Tool sizes for installing Hollo-Bolt Countersunk

Hollo-Bolt Countersunk			
Product Code	Spanner mm	Hexagon Key mm	Tightening Torque Nm
HBCSK08	19	5	23
HBCSK10	24	6	45
HBCSK12	30	8	80
HBCSK16	36	10	190

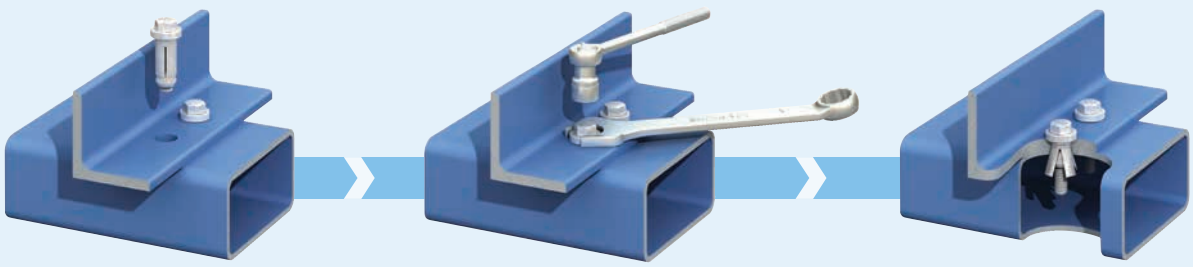
How to install...

Watch the Hollo-Bolt installation video at www.Lindapter.com

1) Align pre-drilled fixture and section then insert the Hollo-Bolt [a].

2) Grip Hollo-Bolt collar with an open ended spanner.

3) Using a calibrated torque wrench, tighten the central bolt to the recommended torque [b].



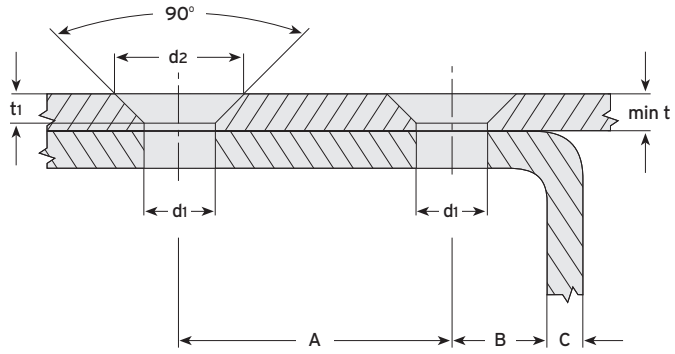
Notes:
a) Before tightening, ensure that the materials that are to be connected together are touching.
b) Rotate the torque wrench only. See table above for tightening torque.
c) Power tools, such as an impact wrench, may be used to speed up the tightening of the Hollo-Bolt. However, when using power tools, always complete the tightening process with a calibrated torque wrench to ensure the correct torque is applied to the Hollo-Bolt.

Ref: LindUKJul25

Hollo-Bolt Flush Fit Head - Drilling and Installation

Please ensure that the holes are drilled into both the fixture and the section according to the drilling guidance below. Please note that the holes are slightly larger than standard bolt clearance holes to accommodate the sleeve and cone.

Preparation for installing Hollo-Bolt Flush Fit Head

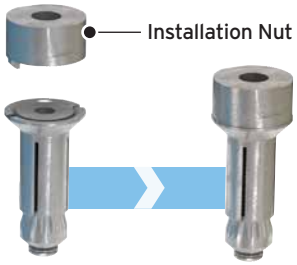


Type	Outer Ply	Clearance Hole Ø	Countersunk		Hole Distances*		Edge Distances*
	min t mm	d1 mm	d2 mm	t1 mm	min A mm	min B mm	B + C mm
HBFF08	8	14 (+1.0/-0.2)	27	6.5	35	13	≥ 17.5
HBFF10	10	18 (+1.0/-0.2)	31	6.5	40	15	≥ 22.5
HBFF12	10	20 (+1.0/-0.2)	35	7.5	50	18	≥ 25.0

** Ensure holes do not cut through the outer radius.*

Tool sizes for installing Hollo-Bolt Flush Fit Head

Hollo-Bolt Flush Fit Head			
Product Code	Spanner mm	Hexagon Key mm	Tightening Torque Nm
HBFF08	19	5	23
HBFF10	24	6	45
HBFF12	30	8	80



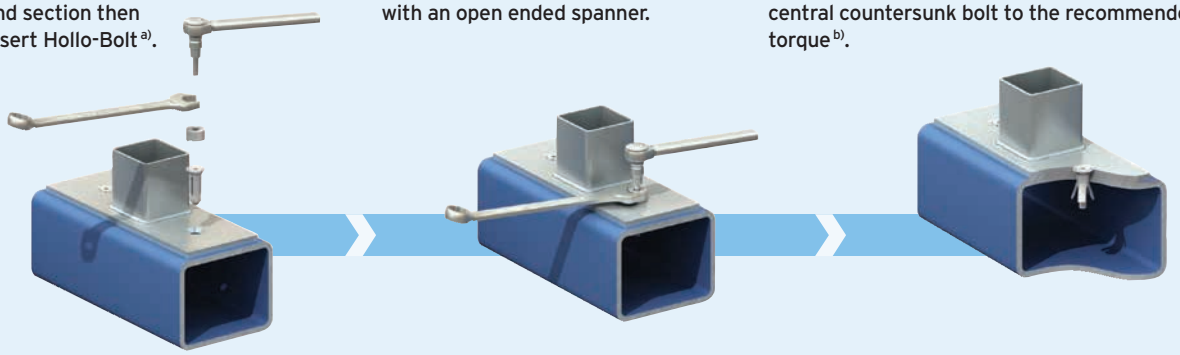
How to install...

Watch the Hollo-Bolt installation video at www.Lindapter.com

1) Align pre-drilled fixture and section then insert Hollo-Bolt [a].

2) Apply the installation nut and grip with an open ended spanner.

3) Using a calibrated torque wrench, tighten the central countersunk bolt to the recommended torque [b].



Notes:

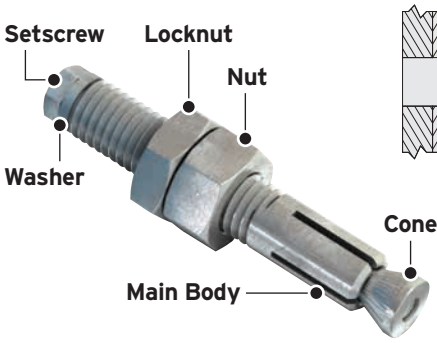
a) Before tightening, ensure that the materials that are to be connected together are touching.

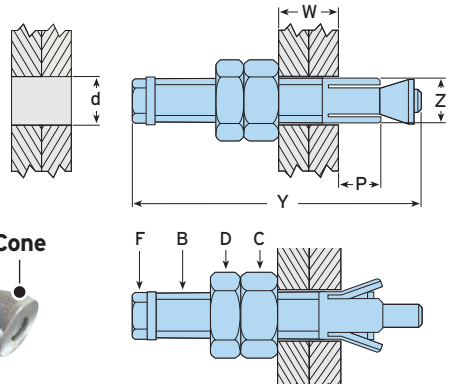
b) Rotate the torque wrench only (the installation nut is for restraining only). See table above for tightening torque.

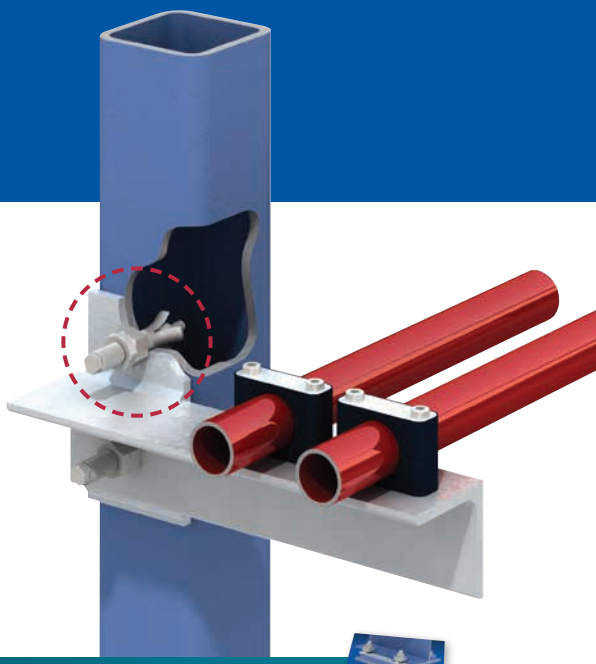
c) Power tools, such as an impact wrench, may be used to speed up the tightening of the Hollo-Bolt. However, when using power tools, always complete the tightening process with a calibrated torque wrench to ensure the correct torque is applied to the Hollo-Bolt.

Type LB2 - LindiBolt™ 2

Self-heading bolt suitable for connecting steelwork to hollow sections where access is only available from one side. The LindiBolt uses a standard clearance hole.







For Characteristic Resistances when designing a connection to Eurocode 3, refer to DoP No.002 (CE) or DoC No.102 (UKCA) on Lindapter's website. Alternatively, request a DoP or DoC brochure.

Material: Steel, zinc plated. Stainless steel grade 316.

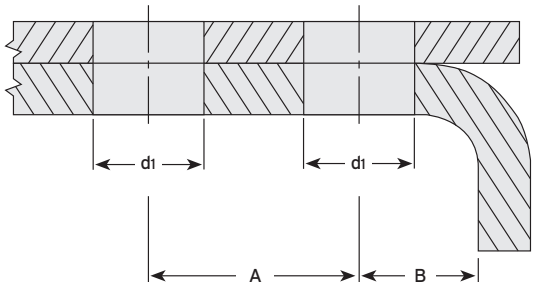
Product Code	LindiBolt Bolt Z	LindiBolt Length Y mm	Safe Working Loads (FOS 5:1) Tensile kN	Safe Working Loads (FOS 5:1) Single Shear kN	Clamping Length W mm	Projection P mm
LB10	M10	74	3.0	3.4	7 - 30	7.5 - 10
LB12	M12	85	5.0	5.0	10 - 36	9 - 12
LB16	M16	105	8.0	9.8	12 - 48	12 - 16
LB20	M20	128	14.0	15.2	14 - 60	15 - 20
LB24	M24	158	20.0	22.5	18 - 72	18 - 24

Product Code	Setscrew (F) Bolt F	Setscrew (F) Tightening Torque Nm	Setscrew (F) A/F mm	Main Body (B) and Nut (C and D) Thread Z	Main Body (B) and Nut (C and D) Tightening Torque Nm	Main Body (B) and Nut (C and D) A/F mm
LB10	M5	6	8	M10	20	17
LB12	M6	11	10	M12	31	19
LB16	M8	23	13	M16	81	24
LB20	M10	45	17	M20	129	30
LB24	M12	80	19	M24	203	36

The safe working loads, in both tension and shear shown, are applicable to the LindiBolt™ only. Failure of the section, particularly on those with thin walls and a wide chord face, could occur at a lower figure and its strength should be checked by a qualified Structural Engineer.

LindiBolt - Drilling and Installation

Please ensure that the holes are drilled into both the fixture and the section according to the drilling guidance below.

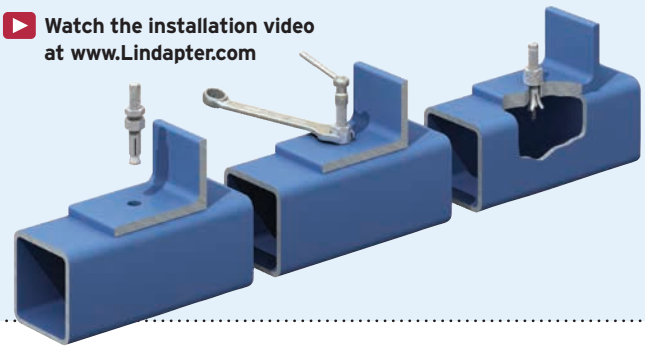


Product Code	Clearance Hole Ø d1 mm	Hole Distances min A mm	Hole Distances min B mm
LB10	11 (+1.0)	25	15
LB12	13 (+1.0)	30	20
LB16	17 (+1.0)	40	25
LB20	21 (+1.0)	50	30
LB24	25 (+1.0)	60	35

How to install...

1) Set nut (C) at (W) plus projection (P) then tighten the locknut (D).
2) Align pre-drilled fixtures. Insert LindiBolt cone end first through both fixtures.
3) Hold nut (C) with a spanner and tighten the bolt (F). Loosen off the locknut (D) and tighten the nut (C). Secure by re-tightening the locknut (D).

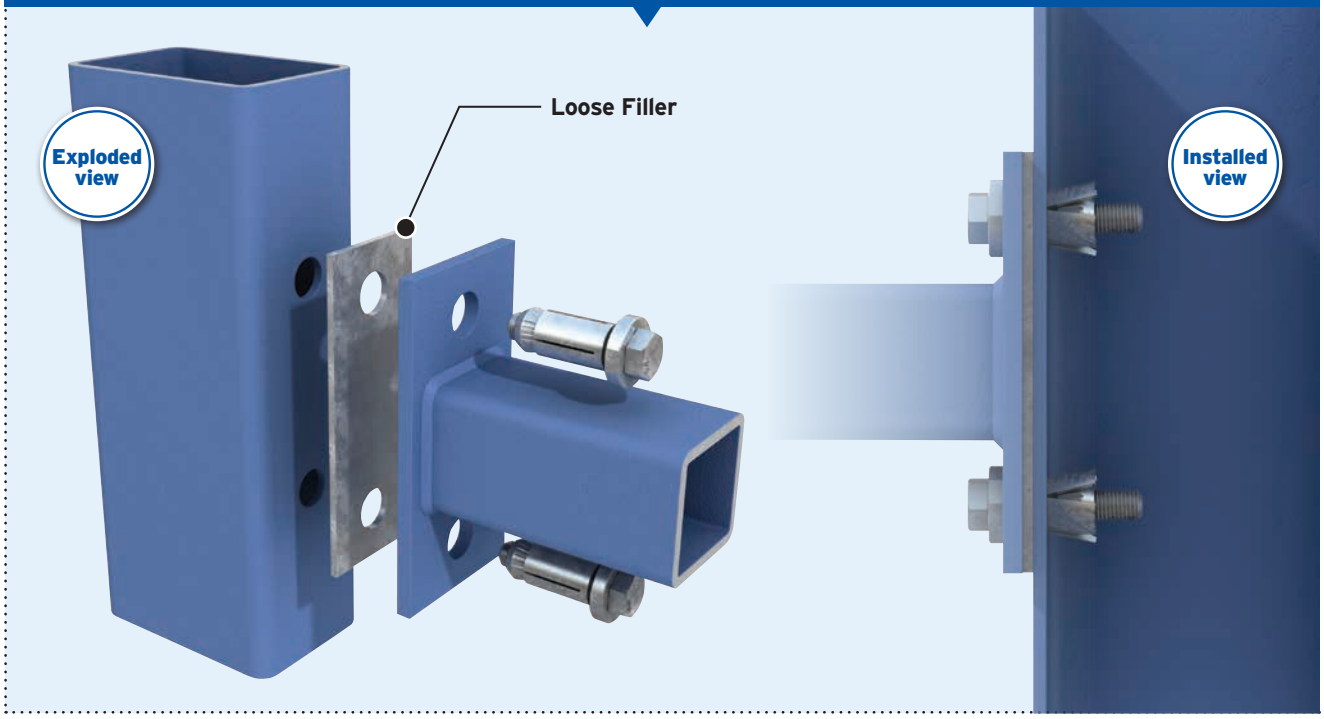
Watch the installation video at www.Lindapter.com



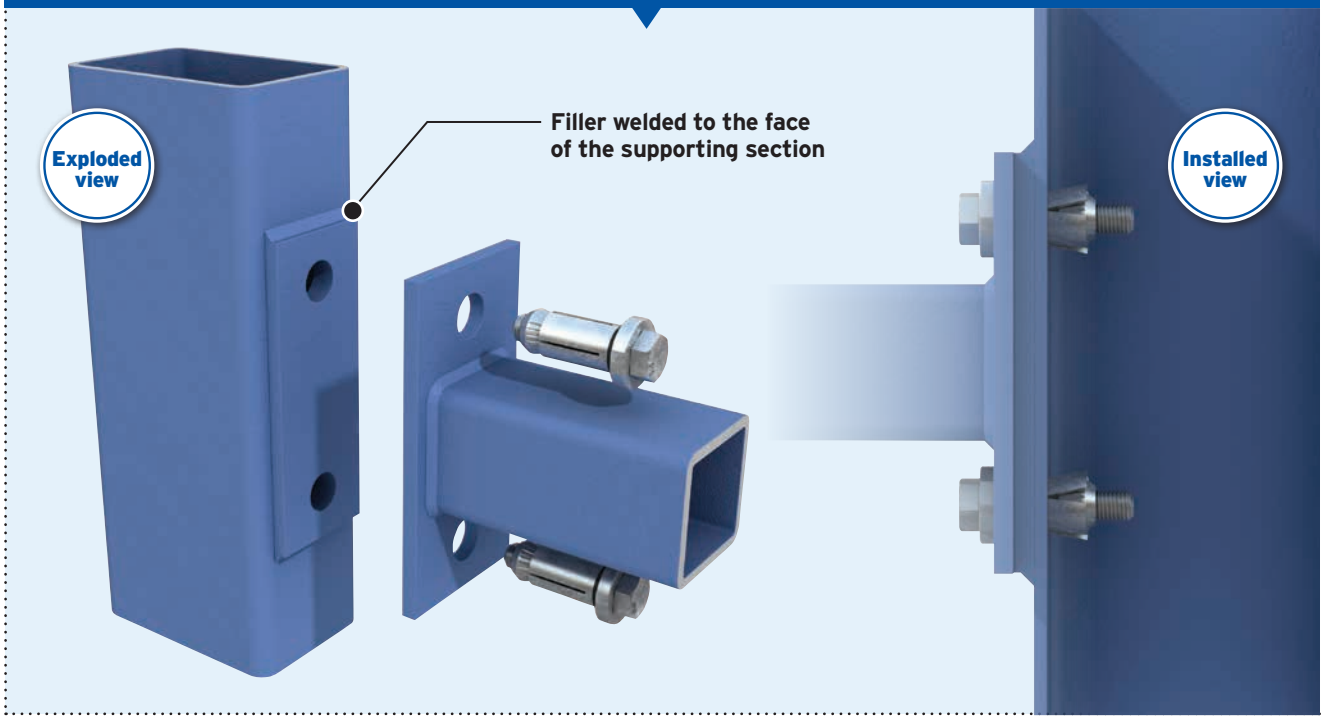
Fillers for Hollo-Bolt applications

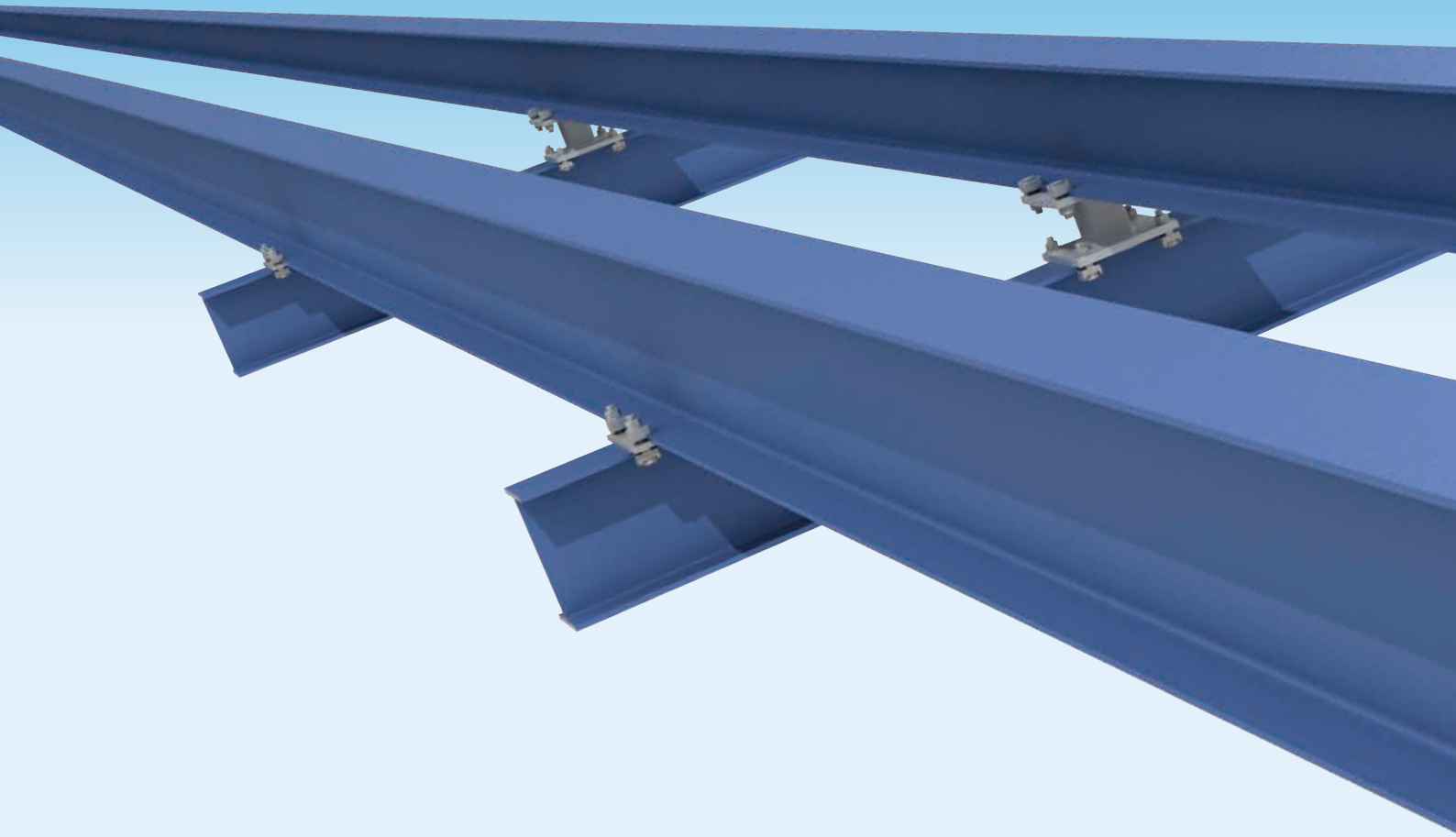
Fillers or shims are steel strips or plates used in bolted connections to fill gaps in the connecting steelwork. For guidance regarding the use of fillers/shims in Bolted-Bearing Type connections please refer to EN 1090-2 - Execution of Steel Structures and Aluminium Structures Section 8.

LOOSE FILLERS



WELDED FILLERS





Lindsay House
Brackenbeck Road
Bradford
West Yorkshire
BD7 2NF
United Kingdom

T: +44 (0) 1274 521444
E: enquiries@Lindapter.com
support@Lindapter.com

www.Lindapter.com

Follow us on LinkedIn

LindUKJul25