Girder Clamp - The Connection Concept

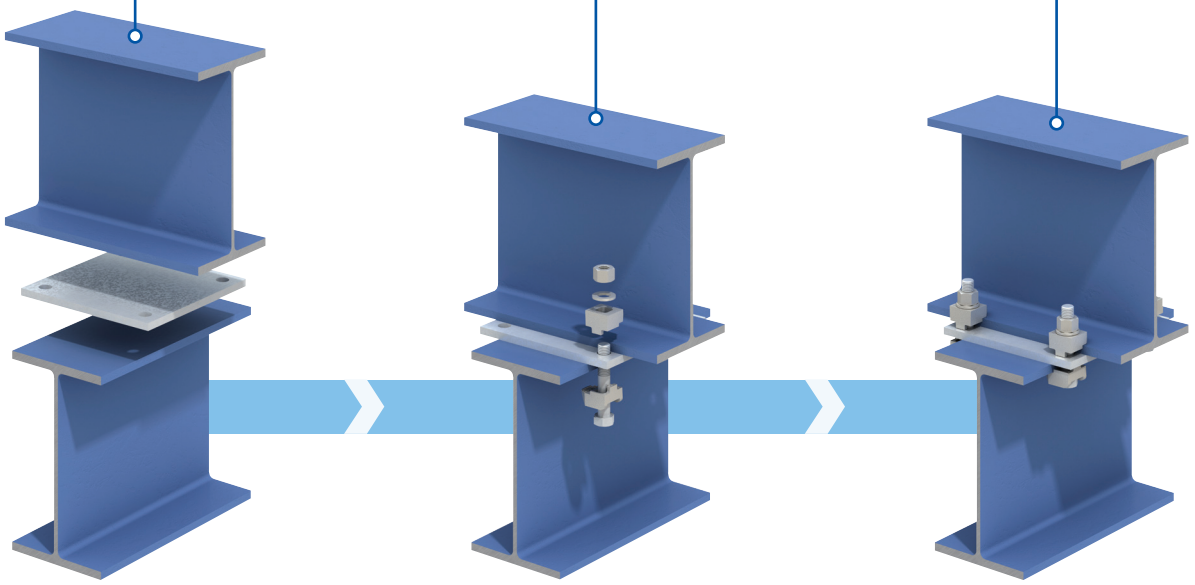
Lindapter products provide a faster, cost-effective alternative to drilling or welding in the field and are designed to reduce installation time and labor costs. A high strength, permanent (or temporary) connection is quickly achieved by clamping two steel sections together.

Quick and easy to install

1) Bring the location plate and the lower beam into position below the upper beam.

2) Fit the bolts with two Lindapter clamps, any packings required, a nut and a washer.

3) Using a torque wrench, simply tighten each bolt to the recommended torque.



REASONS TO USE...

Save time and money
Clamping two steel sections together avoids time-consuming welding or conventional drilling and bolting.

Safer connections
Drilling and welding in the field is avoided, removing the need for hot work permits and encouraging safer site conditions.

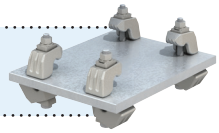
High strength
Lindapter clamps are manufactured from high strength materials to resist high load requirements and harsh environments.

Industry leading approvals
Lindapter has earned a reputation synonymous with safety and reliability, gaining multiple independent approvals. Further details can be found on **page 66**.

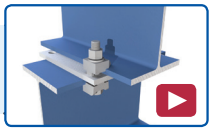
Adjustable
Quickly align steel sections by sliding the section into the correct position before tightening the Girder Clamp to complete the installation.

Free connection design
Lindapter's experienced Engineers can design a custom connection based on your specific requirements free of charge. See **page 67** for more details.

Turn to **page 6** to see the components of a Girder Clamp in more detail.



Watch how to install Girder Clamps at **www.LindapterUSA.com**



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Typical Configurations

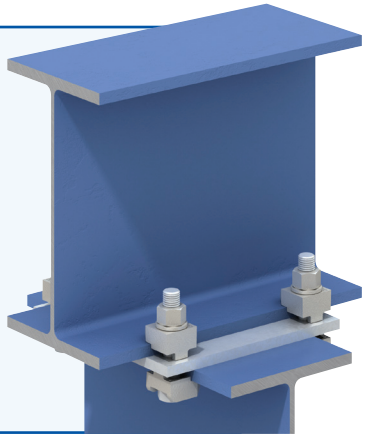
The Girder Clamp represents a range of Lindapter products that are compatible with virtually any shape or size of steel section and can withstand loading conditions in a wide variety of applications, for example:

STANDARD

Beam-to-beam (tensile loading)

The original configuration is designed to secure steel sections and resist tensile loading. It features a pre-drilled location plate that is placed between the beams to locate the four bolts. Each bolt has two Lindapter components to clamp the flange immediately above and below the plate. For larger beams with increased flange thicknesses, packing pieces may be required to raise the height of the clamp to ensure the component is positioned correctly on the beam.

See the components of a Girder Clamp in more detail on **page 6.**



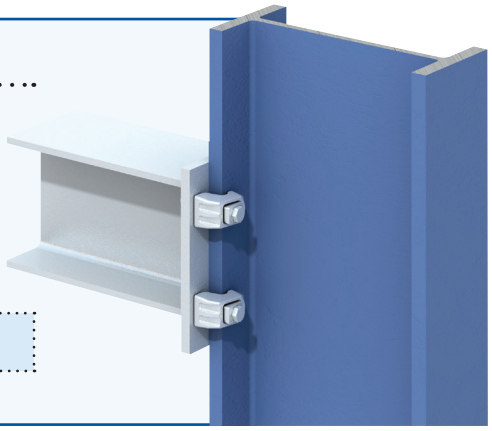
HIGH SLIP RESISTANCE

Beam-to-column (slip resistance)

This configuration utilizes a High Slip Resistance (HSR) clamp to achieve a secure connection to vertical columns.

An end plate is pre-fabricated to the section that will be joined to the column. The purpose of this plate is to locate the bolts and provide a fastening position for the Lindapter clamps.

Lindapter's range of HSR clamps can be found on **pages 8 - 13.**



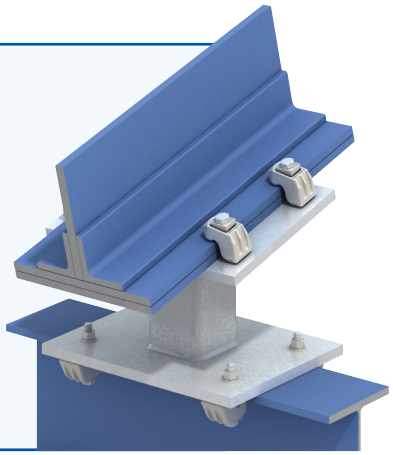
ADJUSTABLE

Inclined beam-to-beam (combined loading)

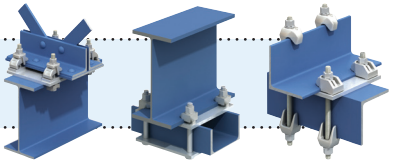
A fabricated assembly, optimized with Lindapter's adjustable High Slip Resistance clamps to resist both tensile loading and slip.

This solution is adjustable, allowing for a connection to a wide range of flange thicknesses for added convenience. Lindapter can design and supply the entire assembly to suit individual applications.

Read more about the free connection design service on **page 67.**



Lindapter has a solution for connecting almost any type of steel section including W beams, S beams, channels, angles and more. See **pages 24 - 27** for examples.



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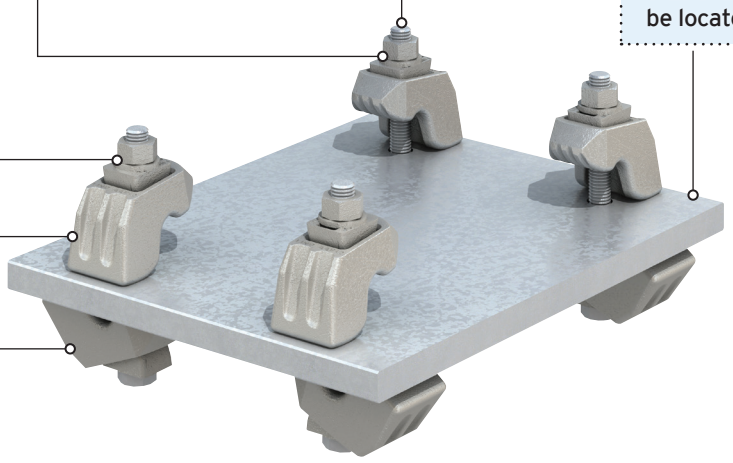
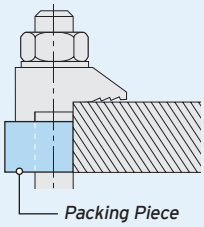
Girder Clamp Configuration

A Girder Clamp is a connection system configured with components to suit specific application requirements, for example high tensile loading or high corrosion resistance. Take advantage of the free connection design service to find the best solution for your connection requirement.

Typical Girder Clamp Components



Packing Pieces (if required) increase the clamping range to suit increased flange thickness.

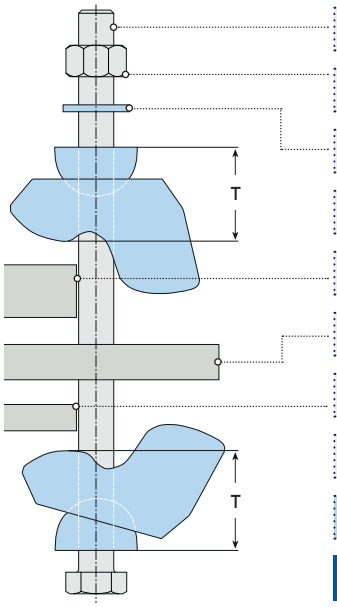


This example is configured with Lindapter AAF clamps (code LAAF075) and four A490 bolts.

› Safe working load up to 26,976lbs tensile or 11,240lbs slip resistance, see page 8 for details.
› For higher loads up to 56,200lbs tensile or 15,736lbs slip resistance, see the Type AF on page 10.

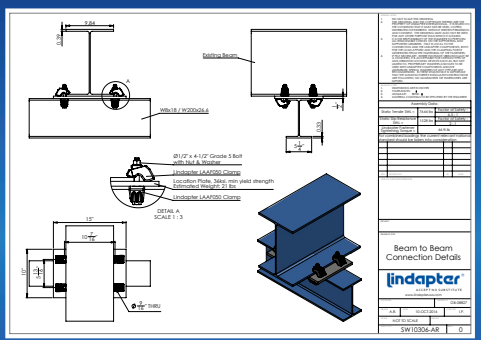
Bolt Length Calculator

To calculate bolt length, simply add up all parts the bolt will go through. The next standard bolt length should be used, see the example below (1/2" Type AAF to connect W12 x 26 below W14 x 61):



1/4"	0.5 bolt Ø as bolt protrusion
1/2"	Height of nut
1/8"	Washer
13/8"	T of top clamp
5/8"	Top section (W14 x 61)
1/2"	Plate thickness
3/8"	Lower section (W12 x 26)
13/8"	T of lower clamp
51/8"	= Total Length
51/2"	**Next standard bolt length**

Can we help? Try Lindapter's free connection design



For your next project, Lindapter's team of experienced Engineers can advise the correct product and detail the connection for you free of charge, providing drawings in 2D or 3D CAD files that can be imported into all major software. Please turn to **page 67** for more information.

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Product Configuration

The table below shows the various components that can be assembled in a Girder Clamp arrangement. Each product has specific properties, for example the Type AF heavy duty clamp can resist tensile loads up to 56,200lbs when used with four bolts (A490) in a Girder Clamp assembly.

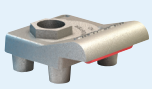
Single Components

Product	Parallel Flanges	Tapered Flanges	Tensile	High Slip Resistance	Slotted Clearance Holes	Adjustable	Stainless Steel
Type AAF page 8 	✔	✔	✔	✔	✔	✔	-
Type AF page 10 	✔	✔	✔	✔	✔	-	-
Type CF page 11 	✔	✔	✔	✔	-	✔	-
Type LR page 14 	✔	✔	✔	-	✔	✔	-
Type A page 16 	✔	-	✔	-	-	-	-
Type B page 17 	✔	-	✔	-	-	-	-
Type LS page 20 	✔	✔	✔	-	✔	✔	✔

Other Clamp Systems (these products do not require a location plate)

Product	Parallel Flanges	Tapered Flanges	Tensile	High Slip Resistance	Slotted Clearance Holes	Adjustable	Stainless Steel
Type FC page 22 	✔	✔	✔	-	-	✔	-
Type F9 page 23 	✔	-	✔	-	-	✔	-

Also available

Lindapter Rail Connections
See **pages 28 - 31** for more information.


Lindapter Lifting Points
See **pages 32 - 35** for more information.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