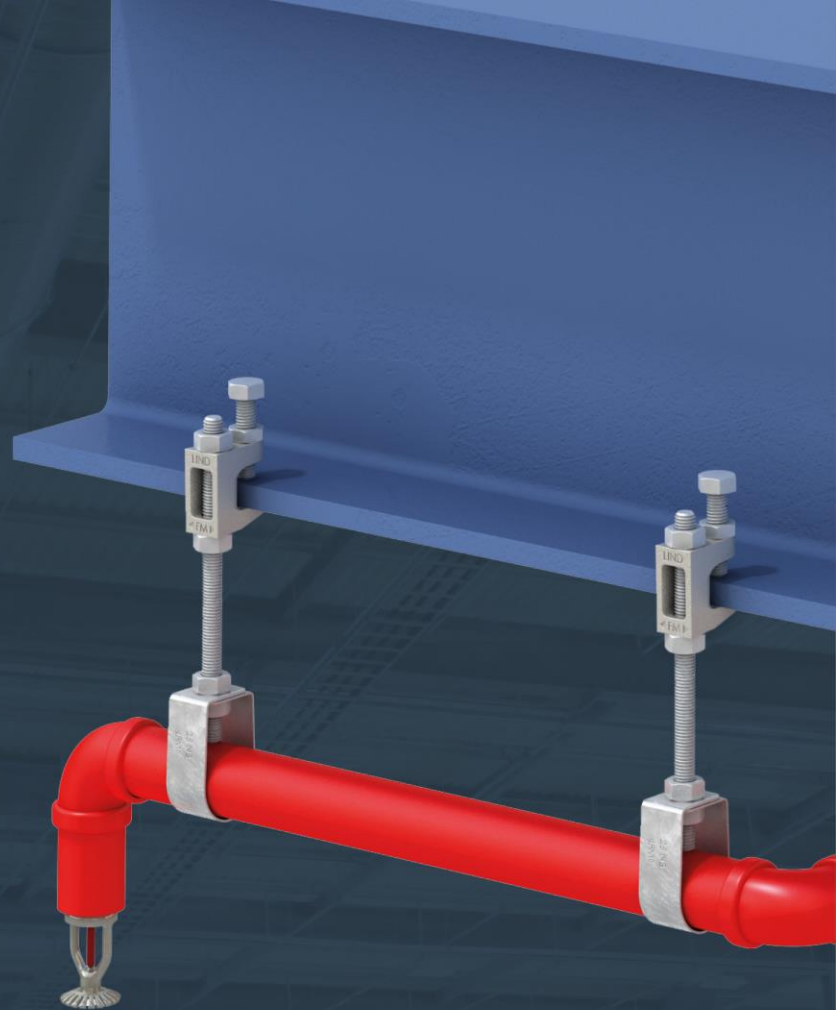




Lindapter®

How Lindapter can help MEP
Contractors comply with the
Building Safety Act

Presented by Mark Parkin
Specification Manager



Section 1

The Building Safety Act 2022



Building Safety Act
2022

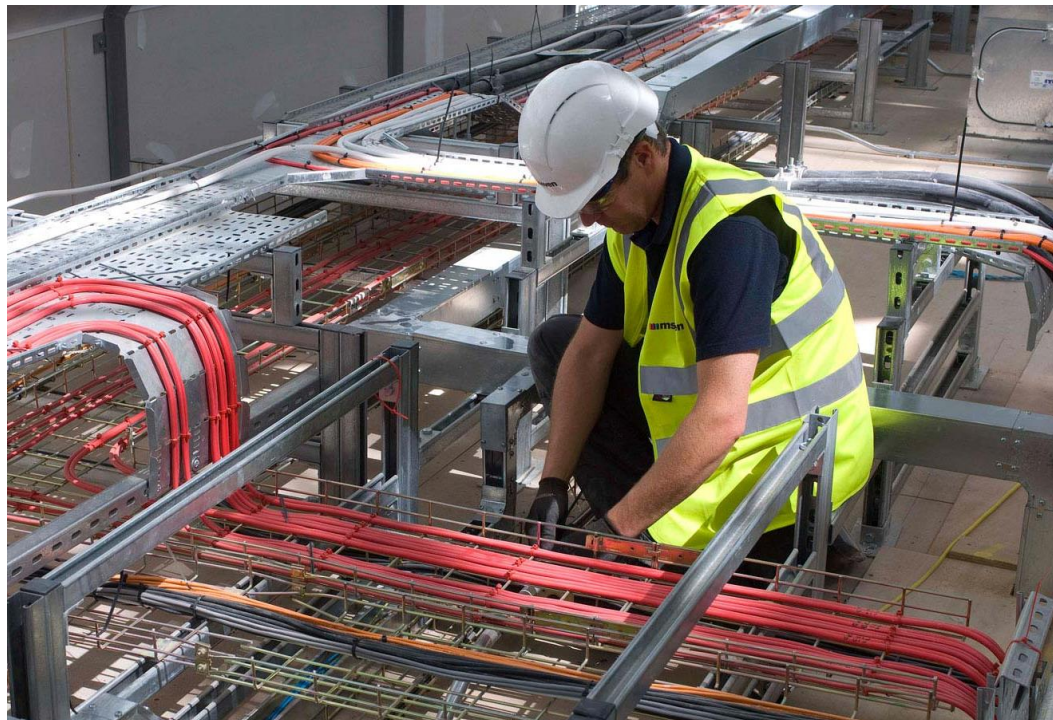
The Building Safety Act (BSA) is a critical reform aimed at improving building safety standards across the construction industry.

- It was prompted by the Grenfell Tower tragedy in 2017 and seeks to enhance accountability in designing, constructing, and maintaining buildings, especially those classified as higher-risk structures.
- The Building Safety Act legislation lays the groundwork for a safer future by addressing longstanding issues related to building safety throughout a structure's life cycle.



The Building Safety Act (BSA) defines Duty Holder Roles:

- Client
 - Principal Contractor
 - Principal Designer
 - **Contractor**
 - **Designer**
- Each role has its own obligations and responsibilities and a duty to champion greater building safety.
 - MEP contractors must comply with the BSA and be able to evidence competency in 4 key areas:
 - Skills
 - **Knowledge**
 - Experience
 - Behaviours





Golden Thread of Information

Competence

Compliance



PRODUCT

Approvals
Product Passports
Traceability
European Technical Assessments



PEOPLE

Training / Awareness
Competence = Skills,
Knowledge, Experience
and Behaviour (SKEB)

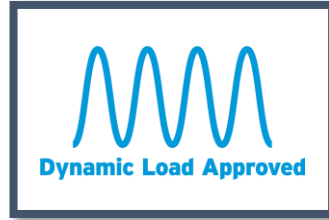
= Compliance & Competence

Section 2

How we can help you comply with the Building Safety Act



Building Safety Act
2022

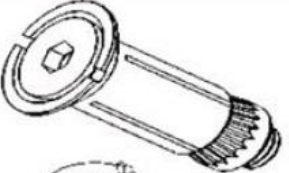


Lindapter products have earned a respected reputation synonymous with **safety** and **reliability**. Approvals provide you with the evidence that Lindapter products are fit for purpose, helping you prove compliance with the Building Safety Act.



- ISO 9001 quality management system
- UKCA/CE Approval
- Factory Production Control system
- Product labeling with full traceability
- “Golden Thread” of information for compliance.
- CPA (Construction Products Association) Members

**Golden Thread
of Information**

Quantity: 100 M8 (5/16") Flush Fit Size 1  Fixing Thickness (10 - 27mm) JS500 Cr3 Country of Origin United Kingdom		  Includes One M8 Flush Fit Hollo-Bolt Tool
HBFF08-1 LHBM08#1FF	Inspection: ??? No. ??? of ???	B2 LOT- ?????? 21-Apr-23
 0836 2023 0836-CPR-23F8822 UKTA 22/0493 DoG No: 191 Reaction to Fire: Class A1 www.lindapter.com/about/UKCA Lindsay House, Brackenbeck Road, Bradford, UK BD7 2NF	 2812 2011 2812-CPR-0208 ETA 20/0917 DoP No. 001 Reaction to Fire Class: A1 www.lindapter.com/about/CE	 5 051324 011598

- Fire
Rated** 

Lindapter Service

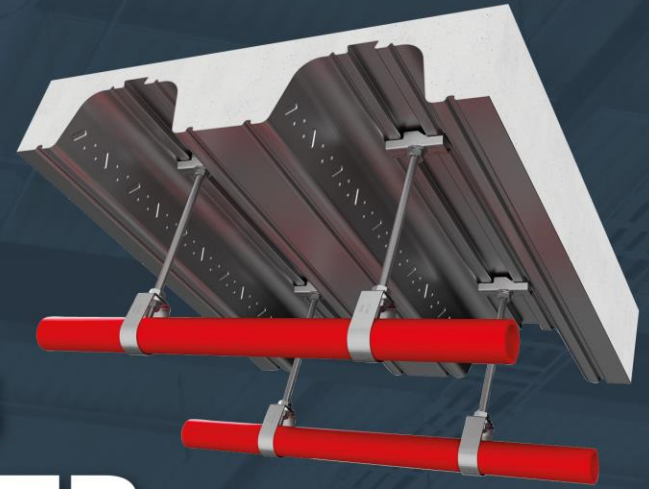
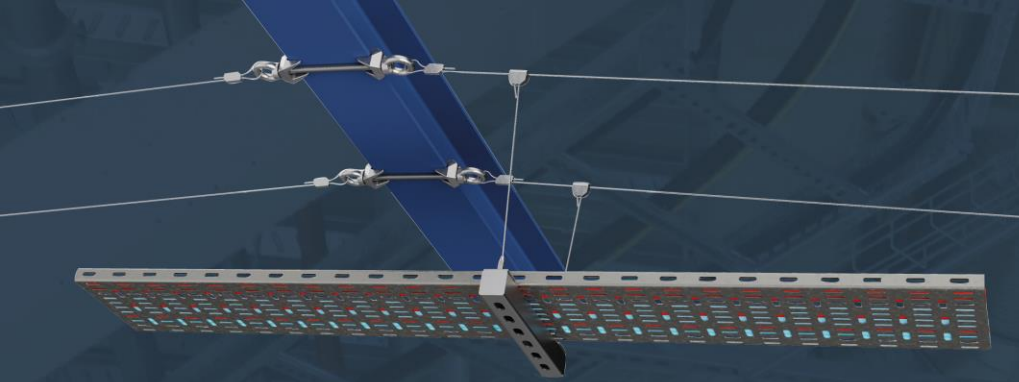


Providing on site training and certification to upskill your workforce and best practice.

- **Training**
- **Awareness**
- **Skills**
- **Knowledge**

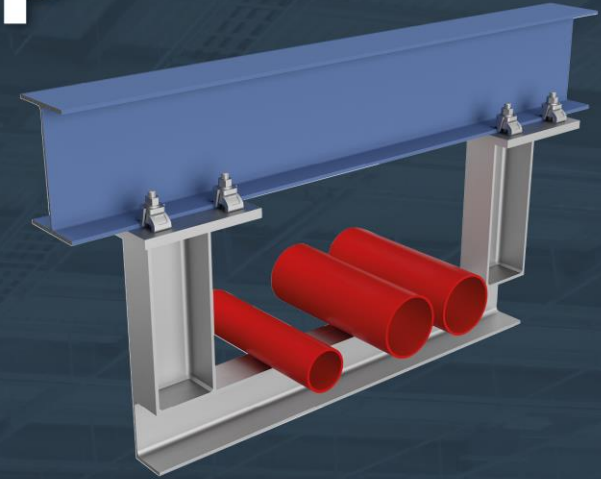
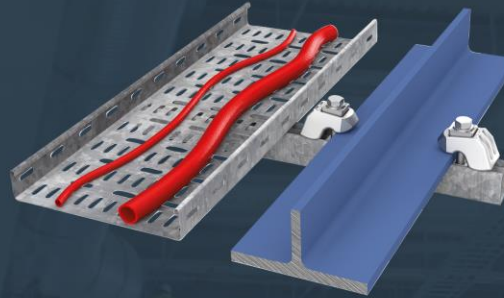


lindapter® Tensile Test Report			
Test Certificate No. LTT-154		Date of test: 11/06/2024	
SITE INFORMATION			
Site Name:	East Anglia 3		
Site Address:	On Shore Converter Station Bullen Lane Bramford IP8 4JL		
Contractor:	Siemens Energy		
Contact:	James King		
Tel. Number	07463 850682		
Email:	shashli.banerjee@siemens-energy.com		
PRODUCT INFORMATION			
Product Tested:	MW	Size:	M10
Deck Profile:	Multideck MD60 V2	SWL:	1.47kN
TEST INFORMATION			
No of tests conducted:	2		
Did all tested products reach capacity (SWL):	Yes		
If not, please provide details:			
Tests performed by:	Mark Parkin		
Unless otherwise stated, the test(s) carried out show that the M10 type MW Lindapter decking fixing can support the static safe working load of 1.47kN when correctly installed in the decking profile named.			
The report is made by the Lindapter acting as an expert, and not as an arbitrator or a mediator. No extension, implied or actual, of the scope of this service offered can be accepted and no liability in contract, tort or otherwise attaches to Lindapter or its employees in respect of any advice, or lack of advice, given in such report. Lindapter reserves the right, at its sole discretion, to decline any request for the service.			
Issued by:	Mark Parkin	Date of test:	11/06/2024
Test number:	LTT-154	Site:	East Anglia 3
		Revision No	1
		Revision Date	18/03/2024

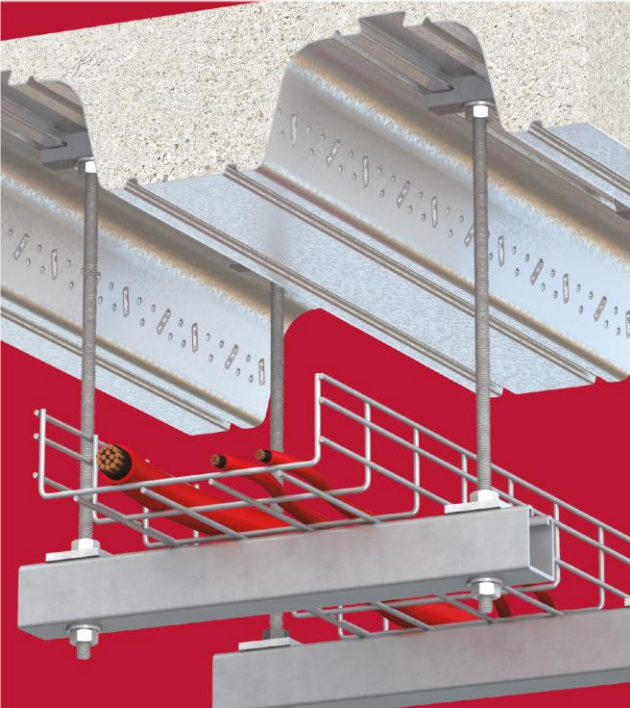


Section 3

Lindapter MEP Solutions



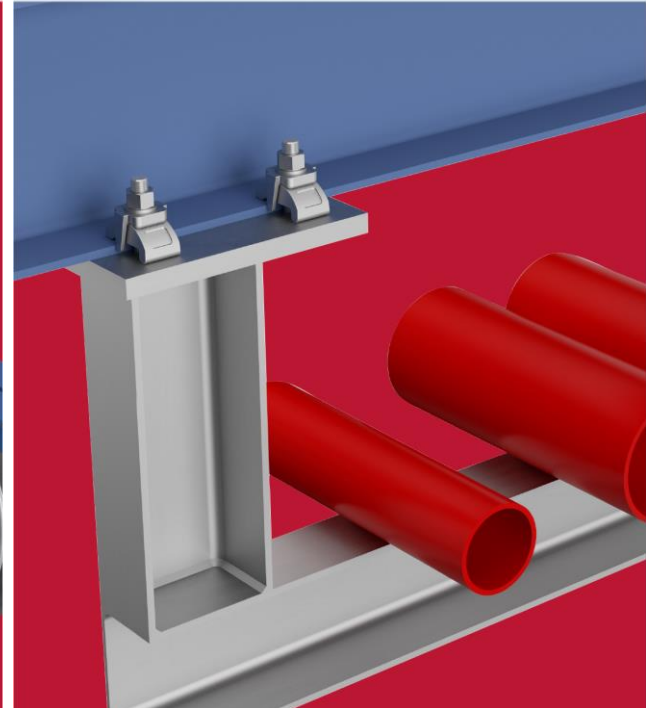
DECKING FIXINGS



SUPPORT FIXINGS



GIRDER CLAMPS





**Speed of
installation**



**Fire
Rated**



**Eliminates
Silica Dust**



Adjustable



**Zero-impact
installation**



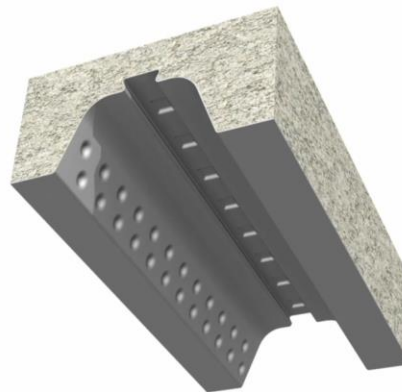
**Independent
approvals**

DECKING FIXINGS



**SWL 100kg-
210kg
FOS 3:1 or 4:1**

**Sizes to suit
M6-M10
Threaded Rod**



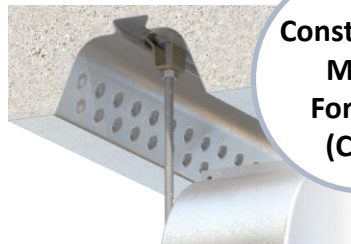
**Zero Impact
installation/
Hand tools
only**

**No drilling so
no exposure to
silica dust**

Lindapter supply decking fixings to suit all major profiles by:



**Structural
Metal Decks
(SMD)**



**Construction
Metal
Forming
(CMF)**



**Kingspan
Structural
Products**



**Tata
Steel**



**Hare
Decking**



**SMD/Tata
Steel/
Kingspan**



Type COM

Compatible with ComFlor® 60, 80 and 95 by Tata Steel



Type AW

Compatible with Ribdeck E60 by Richard Lees Decking



Type TR60

Compatible with TR60+™ 60 and TR80+™ by SMD®



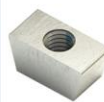
Type SM

Compatible with SigDeck 100 by Sigmat



Type MF

Compatible with MetFloor® 60 and MetFloor® 80 by CMF®



Type VN

Compatible with a wide range of composite decking profiles

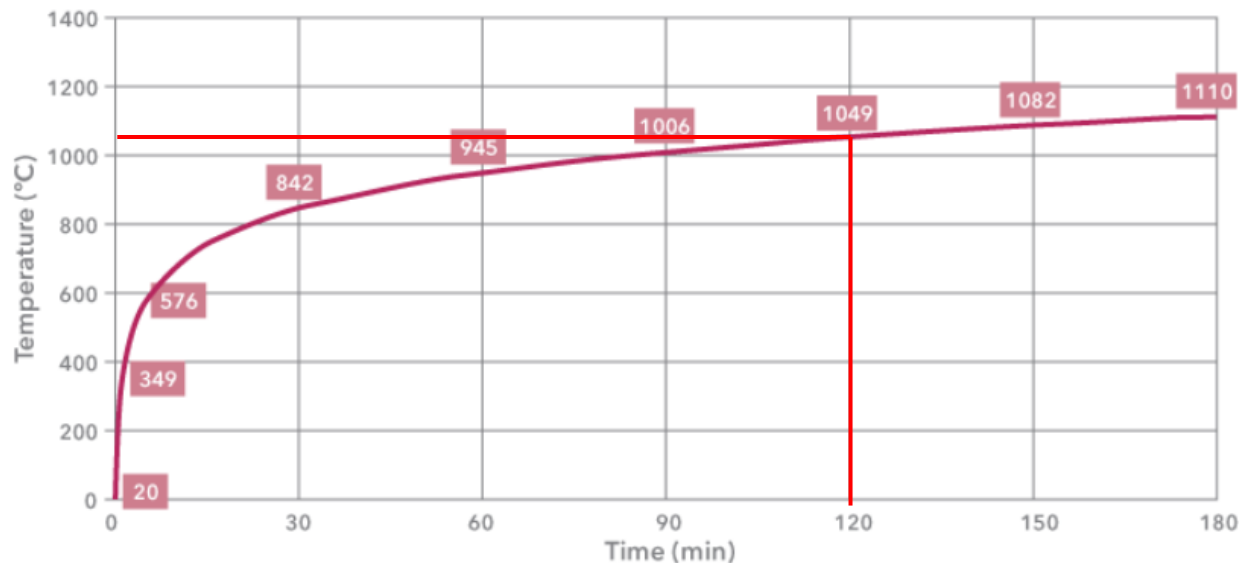


Type MW2

Compatible with Multideck MD60 and MD80 by Kingspan®



Standard time/temperature cellulosic curve



Independently
fire tested to
ISO 834

Fire rated up to
F120 (120
minutes)
1049 °C

BS EN 13501-
1:2018 A1
Steel Non-
Combustible

BS 8519 for
Safety Critical
Applications



Fire Ratings

BRE Global ran third party fire tests in accordance with BS EN 1991-1-2. The BRE test report P116310 Issue 1 verifies load limits for 60, 90 and 120-minute fire ratings.

- ✓ **Independently fire tested to BS EN 1991-1-2**
- ✓ **Fire rated up to F120 (120 minutes)**
- ✓ **Performance class A1 in accordance with 96/603/EC**



Maximum Temperature (°C)			945°C	1006°C	1049°C
Test Duration (minutes)			60 mins F(60)	90 mins F(90)	120 mins F(120)
Product	Threaded Rod (Property Class 8.8)	Product Code	Tensile Load* (kN)	Tensile Load* (kN)	Tensile Load* (kN)
Type MF	M8/M10	MF08/MF10	0.780	0.441	COMING SOON
Type MW	M8/M10	MW08/MW10	0.780**	0.441**	COMING SOON
Type COM	M10	COM10	0.600	0.375	0.300
Type TR60	M8/M10	TR6008/TR6010	0.400	0.250	COMING SOON
Type AW	M8/M10	AW08/AW10	0.400**	0.250**	COMING SOON
Type SM	M10	SM10	0.750	0.550	0.300
Type VN	M10	VN10	1.000	0.700**	0.400

* Loads based on tests performed using 8.8 rod. If using a lower grade, ensure the load does not exceed the fire rated capacity of the rod or the Lindapter fixing.

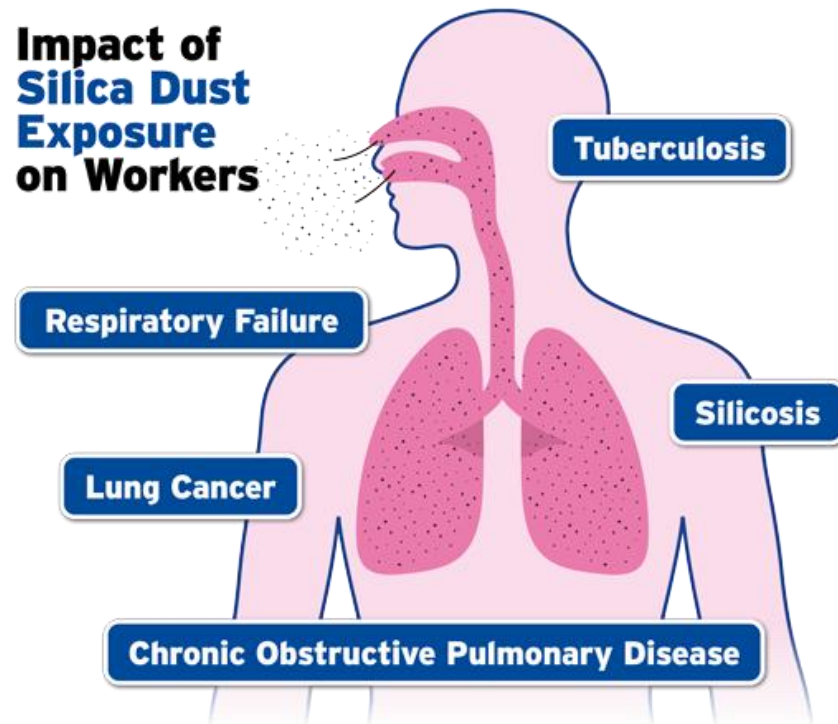
** Lindapter's calculated values based on BRE Global's testing of similarly designed Lindapter products.

Maximum Temperature 1049°C						
			F(120)		Tightening Torque	
Product Code	Drilled Hole Ø mm	Tapped Thread	Fire Rated Tensile Load Limit kN	Clamping Range mm	M10 Setscrew Nm	Locknut Nm
FL210	11	M10	0.50	3 - 20	8	22
FL312	13	M12	0.65	3 - 24	8	22
FL412	13	M10	0.70	9 - 29	8	22



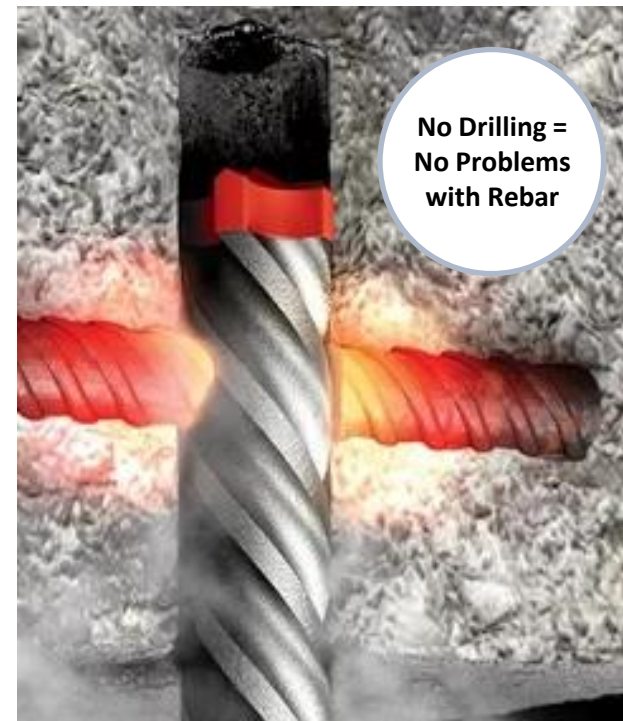
- Construction workers face numerous hazards on-site, including exposure to harmful silica dust when drilling.
- Lindapter Decking Fixings eliminate exposure for construction workers to silica dust because there is no need to drill into the concrete deck.
- Less PPE is required i.e. no respiratory equipment or dust extraction.
- Decking Fixings create a safer and more efficient workplace for construction workers.

Impact of Silica Dust Exposure on Workers





- Decking profile manufacturers say NOT to drill their profiles
- Decking manufacturers guidance is where the load to be suspended exceeds the wedge fixing recommendation, ensure the load does not exceed the slab design capacity before considering any alternative options, refer to a structural engineer/manufacturer for clarification.
- Drilling can cause delamination of the steel deck from the concrete
- Drilling weakens the concrete
- Drilling could be difficult due to hitting rebar
- Drilling causes dangerous silica dust
- Drilling reduces the fire performance of the concrete slab





Amazon Warehouse, UK

Solution: Type MF Decking Fixing

Application: Securing fire protection system to the roof decking profile

Building services (including fire protection system, electrical cables and plumbing pipes) were secured to the composite decking profile using Type MF decking fixings. A combination of threaded rod, strap hangers, catenary wire and strut provided the interface between the decking fixings, pipework and cable trays.







Astrazeneca Pharmaceutical Plant, UK

Solution: Type TR60 Decking Fixing

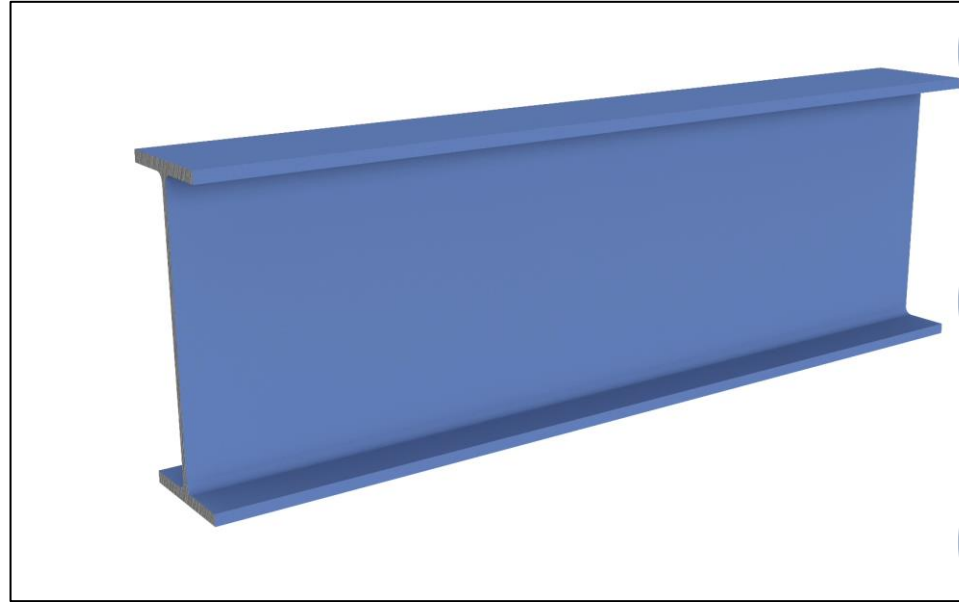
Application: Securing the HVAC system to the roof decking profile

The HVAC units, large spiral ducting and electrical cable basket were secured to the composite decking profile using Type TR60s. A combination of threaded rod and strut trapeze hangers provided the interface between the decking fixings and the various components, ensuring a fast and secure connection.





SUPPORT FIXINGS



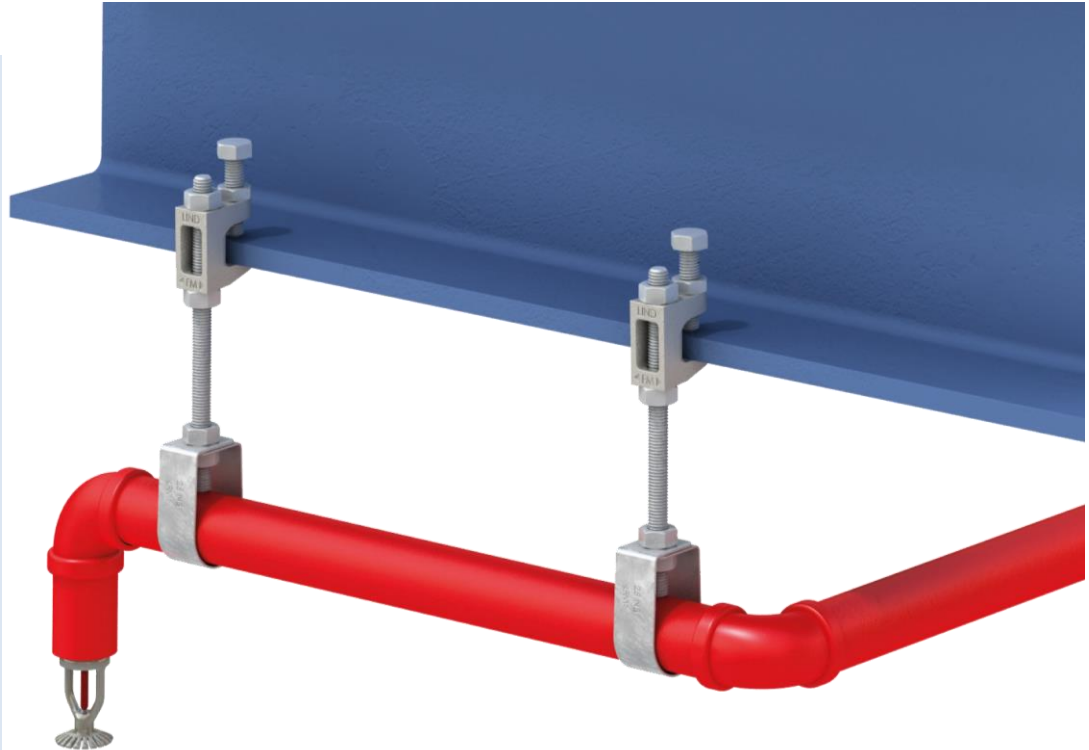
**No drilling so
no exposure to
silica dust**

**Quick and easy
to install**

**Multiple
independent
approvals (FM,
VdS & Fire
Ratings**

Parallel or Tapered Flange Beams

Lindapter is the only manufacturer of beam flange clamps that are Fire Rated, FM and VdS approved.



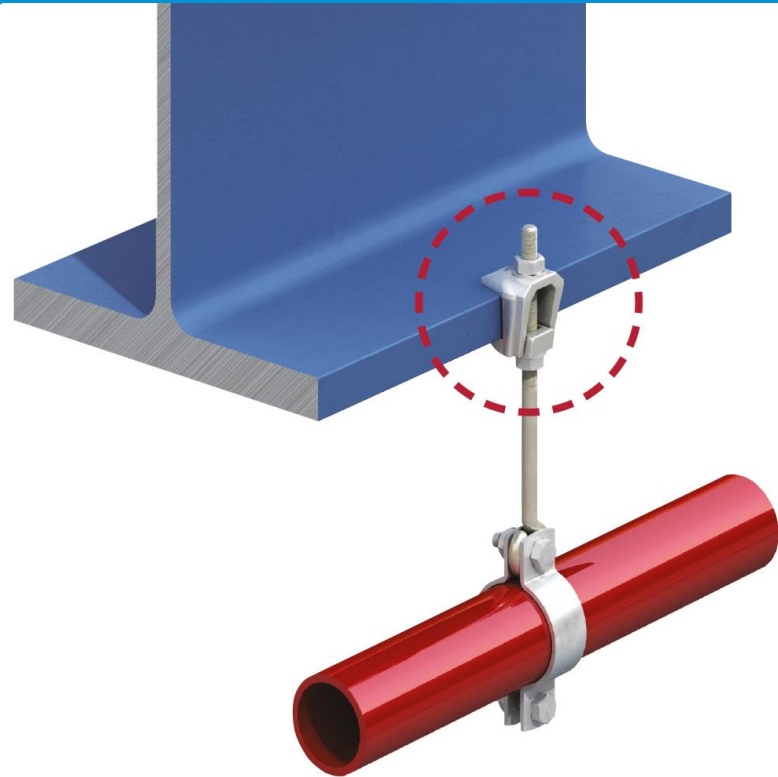
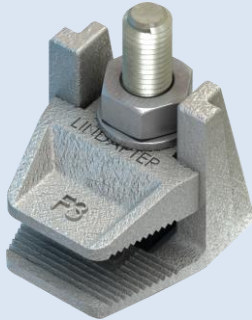
Parallel or Tapered Flange Beams & Trapeze

Type FL beam flange clamp with threaded rod and strut trapeze to suspend large HVAC units.



Beam Flange with Heavy Load

Type F3 is a high strength beam flange clamp with a large clamping range.



Purlin Web Connection

Type WF (Webfix) allows a quick installation directly from the web of purlins to support threaded rod with MEP services attached.





Purlin Web Connection

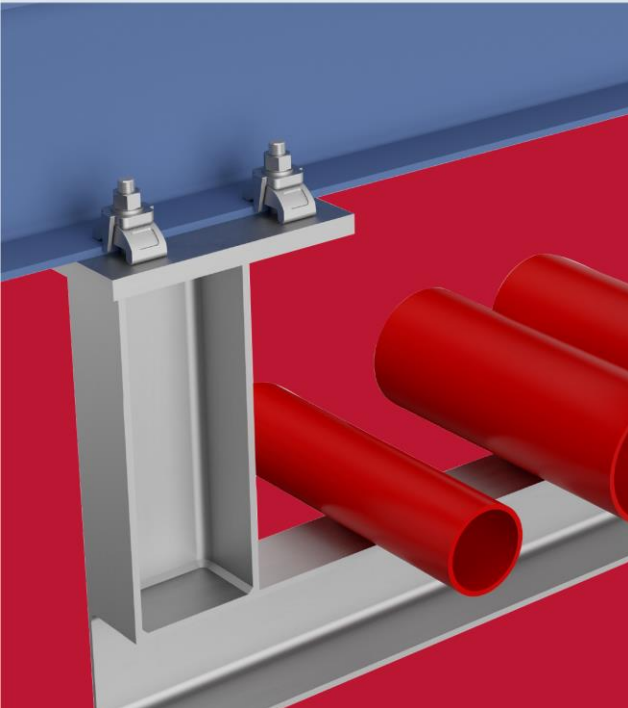
Type WF (Webfix) allows a quick installation directly from the web of purlins to support threaded rod with MEP services attached without the danger of overloading the bottom lip of the Purlin. Permission needs to be sought from a structural engineer/purlin manufacturer regarding the maximum load.

Inclined Beam Pipe Support

Type SW (Swivel Unit) is used in conjunction with Type FL beam flange clamp to allow MEP services to connect horizontally to an inclined beam.



GIRDER CLAMPS



**No drilling or
welding and
adjustable for
precise
installation**

**Quick and easy
to install**

**High strength
in tensile, slip
and combined
loads**

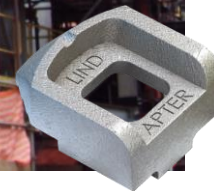


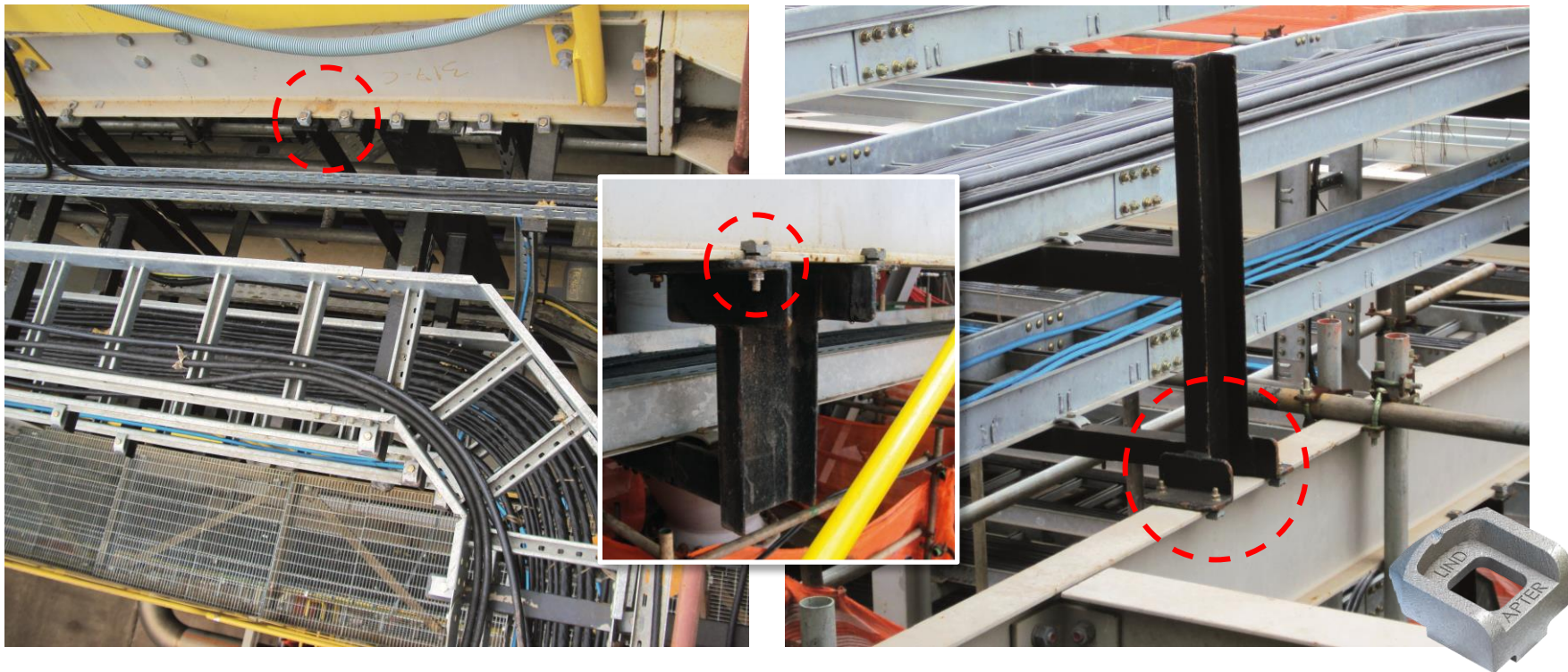
Petrochemical Plant, Brazil

Solution: Type A Girder Clamps

Application: Securing electrical cable ladder hangers and supports to steelwork

Heavy-duty steel support trees and hangers were connected to the primary steelwork of this petrochemical plant using Type As in a 4-bolt configuration. Industrial sized electrical cable ladders were then secured to the steel supports and the cabling installed. No drilling, welding or hot works ensured safe installation in a hazardous environment.





Forth Valley Hospital, UK

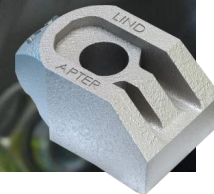
Solution: Type AF Girder Clamps

Application: Securing heavy duty pipe supports to inclined primary steel.

Secondary steel posts with end plates are connected to the inclined primary steel beam using Type AFs. The posts then have threaded rod dropping below vertically that are connected to a steel channel to form a trapeze on top of which the heavy-duty pipes sit.



Lloyd's
Register





Cambridge Biomedical Campus, UK

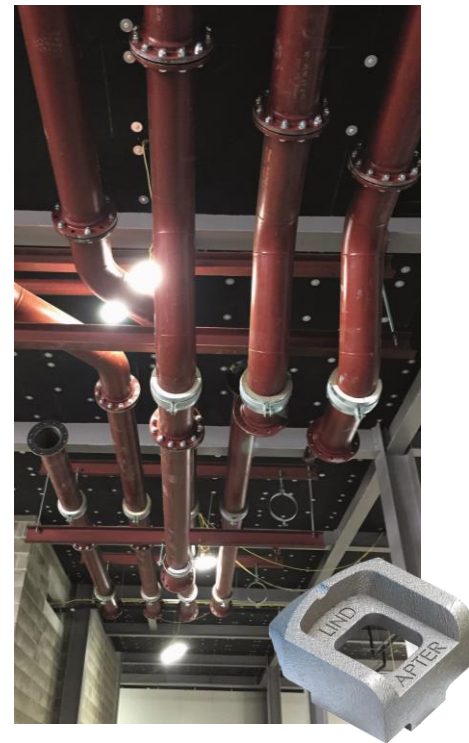
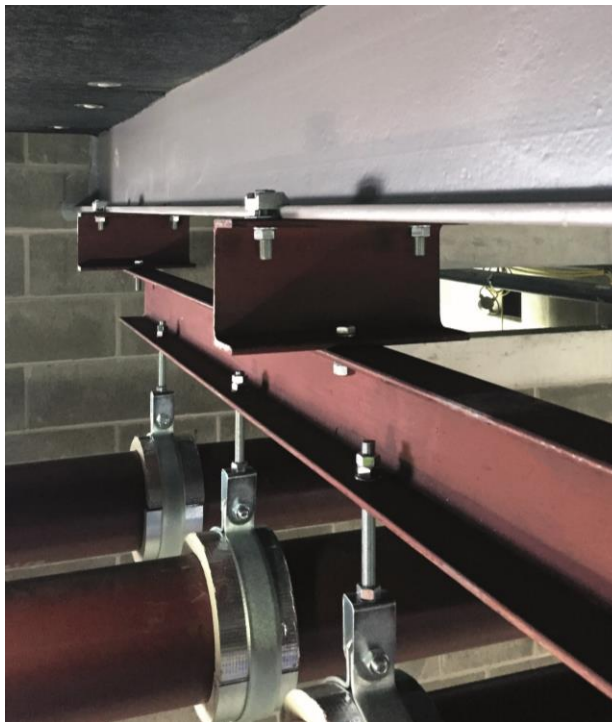
Product: Type A Girder Clamps

Application: Securing secondary steel to primary steel to support heavy duty pipework.

Secondary steel channels were connected to the primary steel beams using Type As. Additional secondary steel was then installed to the underside of the channels and from that the heavy-duty pipes were suspended. Type As offer a simple but effective solution for these types of applications.

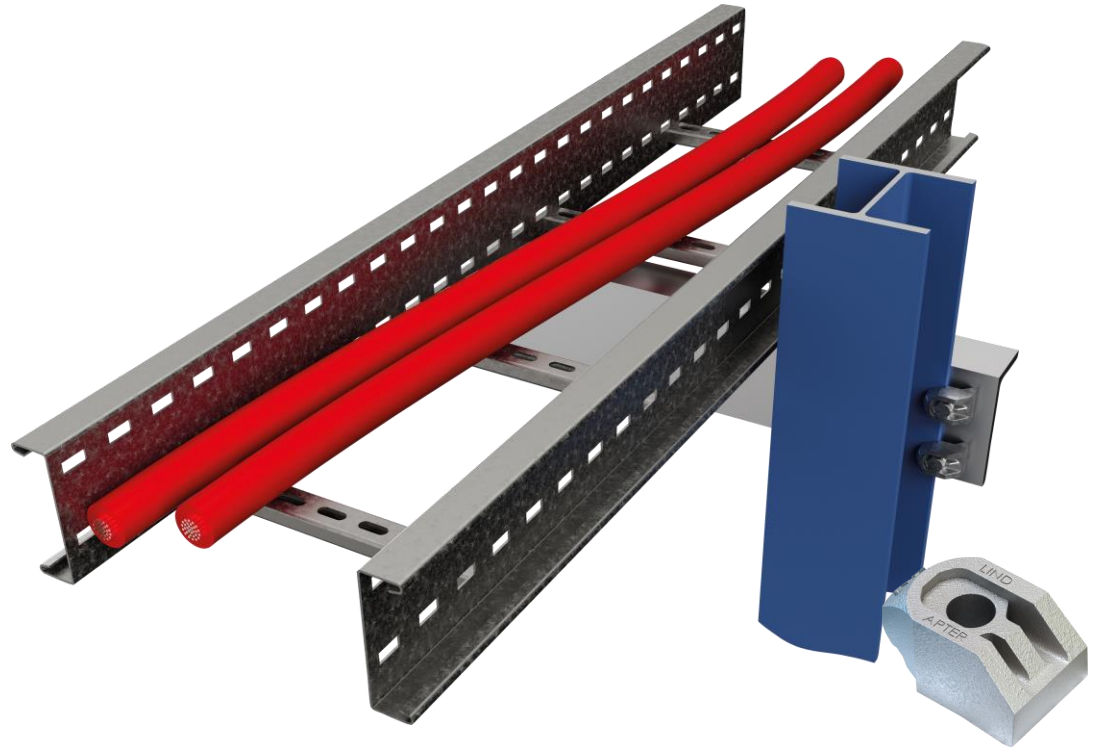
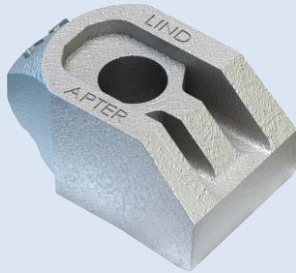


Lloyd's
Register



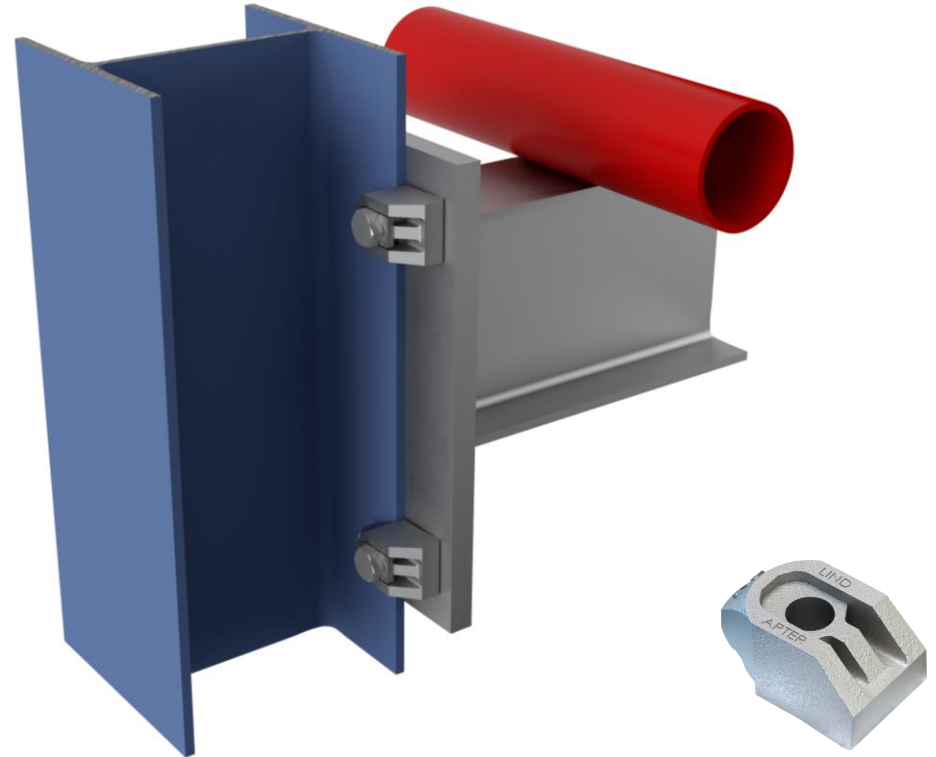
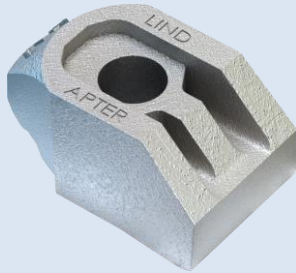
Cable Ladder Support Connected to Column

Type AFs connect support arms to the column. Cable ladder or cable tray is then installed on the support arms.



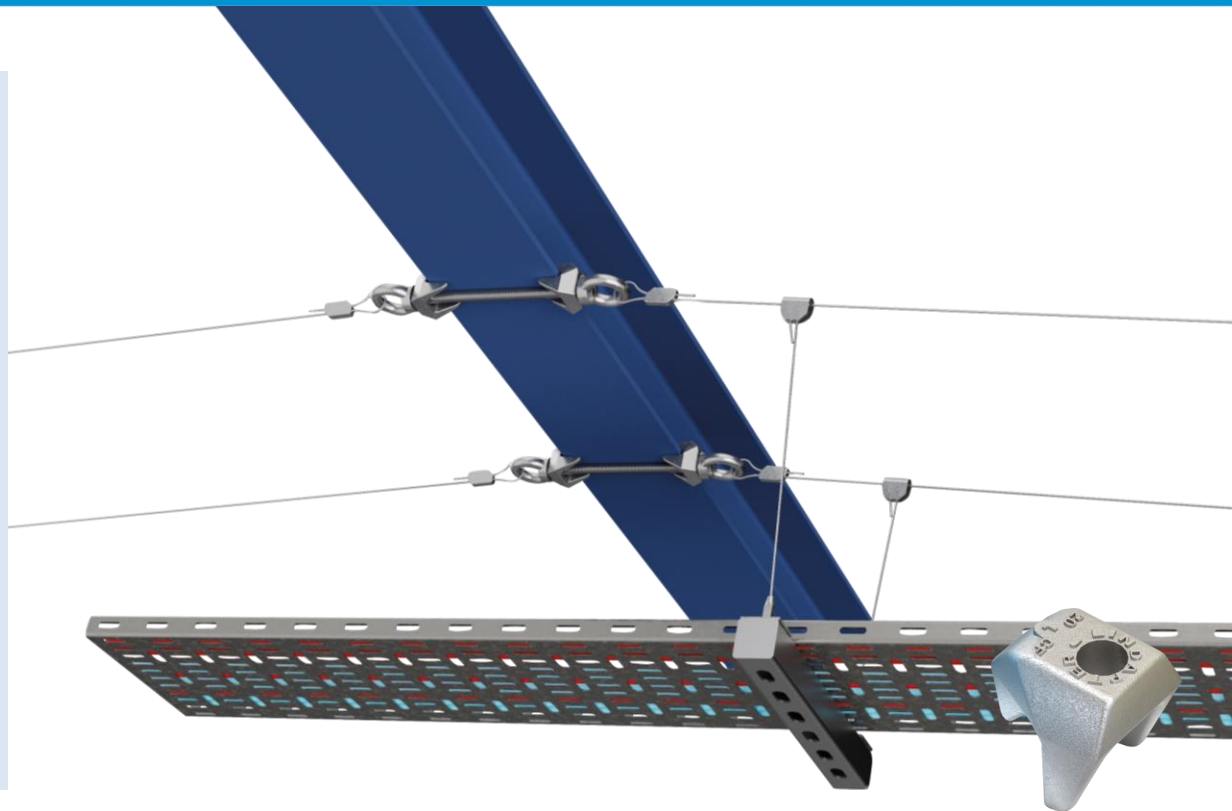
Pipe Support Beam to Column

Type AFs are used to connect a pipe support cradle to the primary steel.



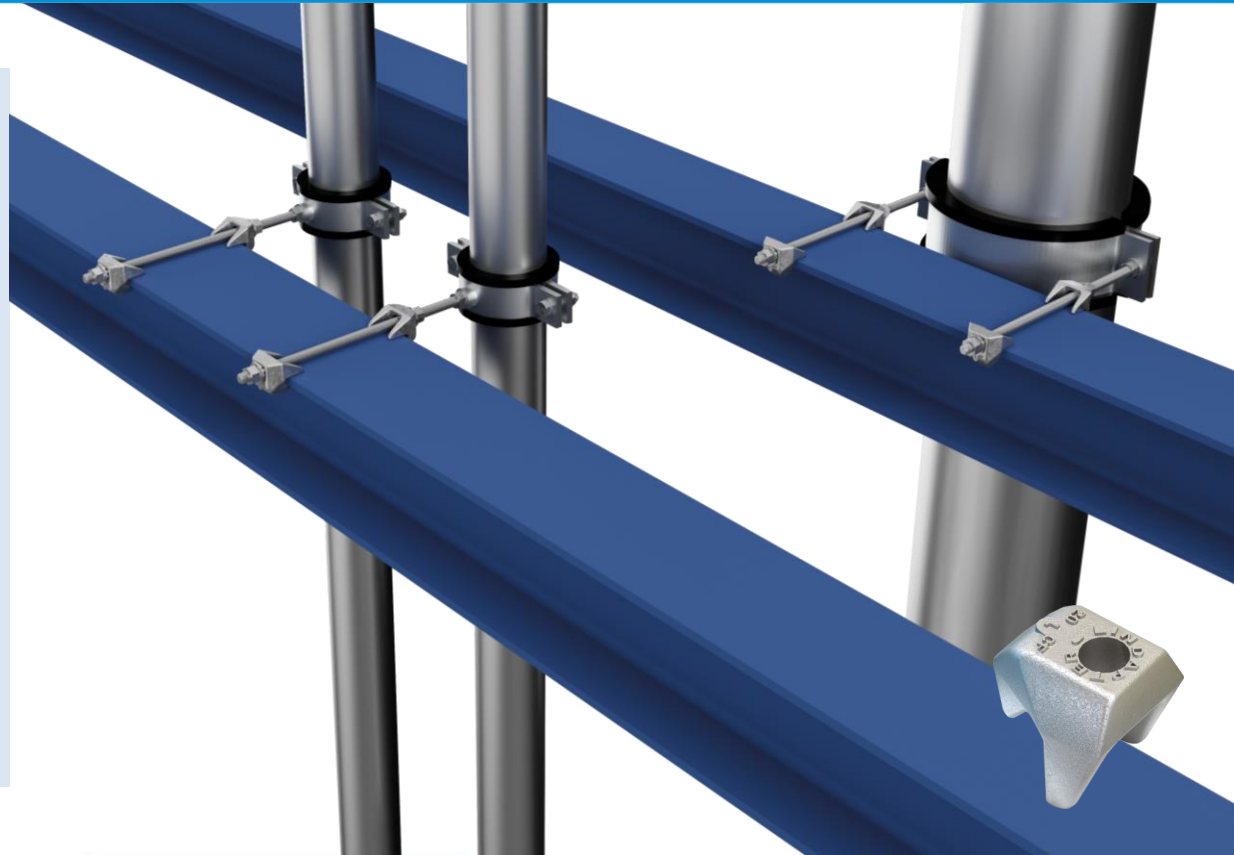
Catenary Wire to Beam Support

Type CFs hook around the flange of the beam. An eyelet is used to connect the catenary wire to the clamp. Strut is then connected to the wire to support the cable tray or basket.

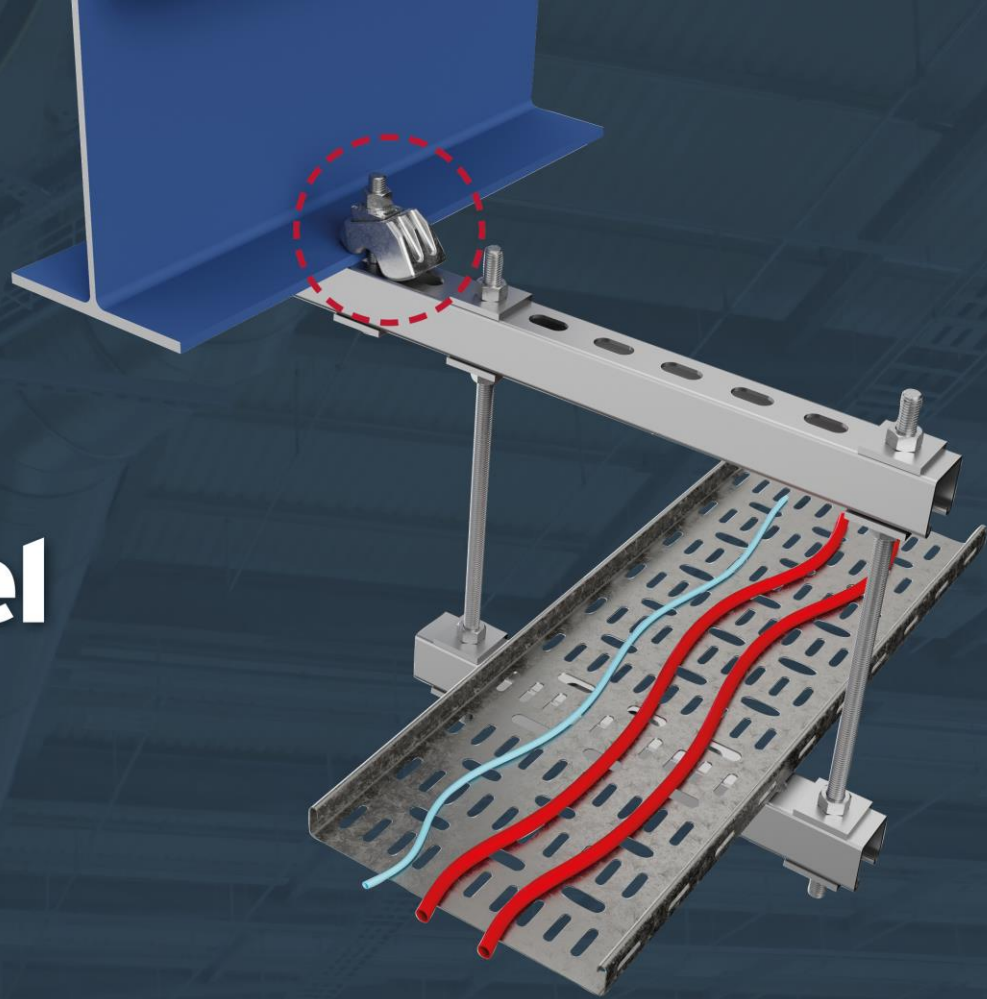


Pipe Riser Supports

Type CFs hook around the flange of horizontal beams and secures vertical pipework with threaded rod and insulated pipe clamps.



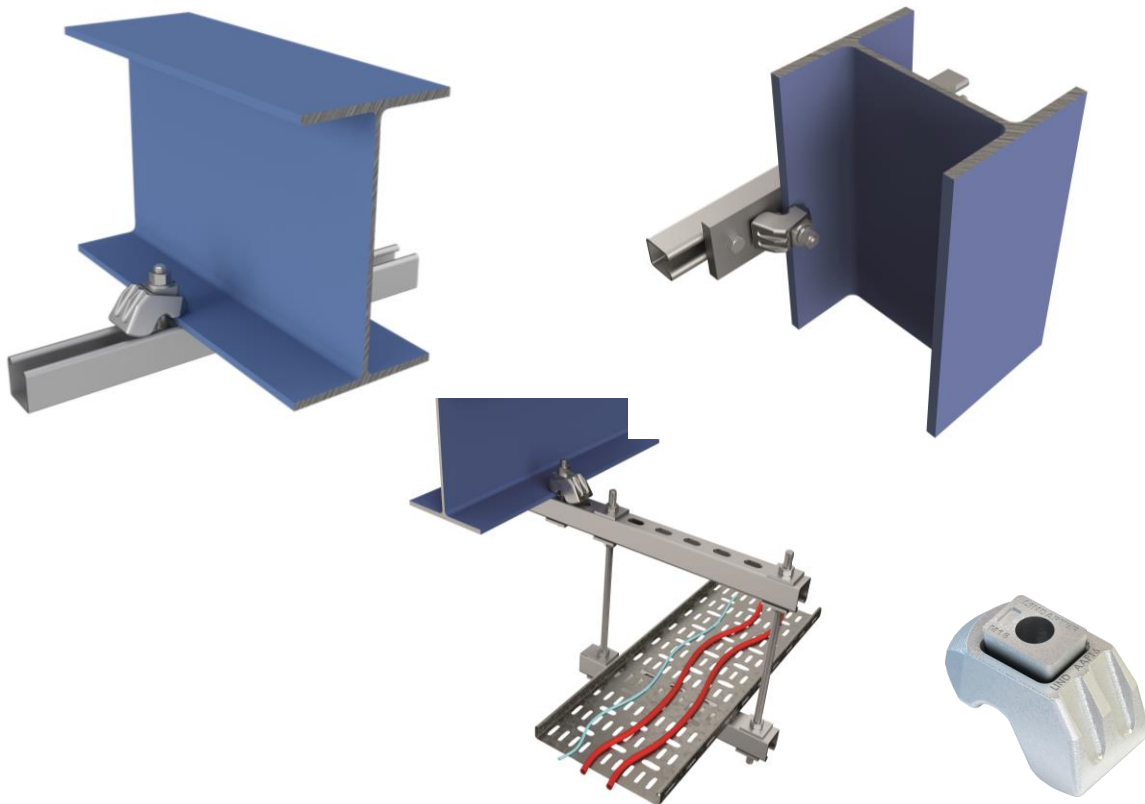
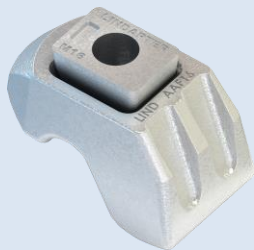
**Connection
Solutions for...**
Strut Channel





Strut Channel Framework to Beam

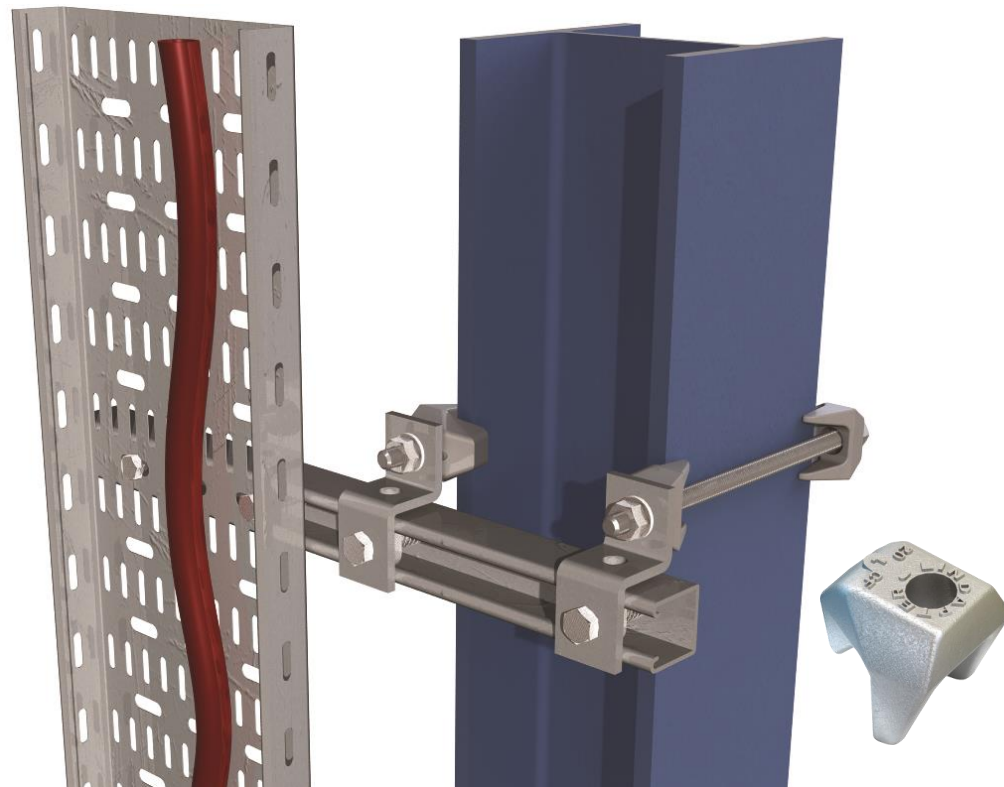
High strength Type AAFs are used to connect a strut channel support frame to the primary steel beam. MEP services can then be suspended from the strut channel framework.





Strut Channel Support to Column

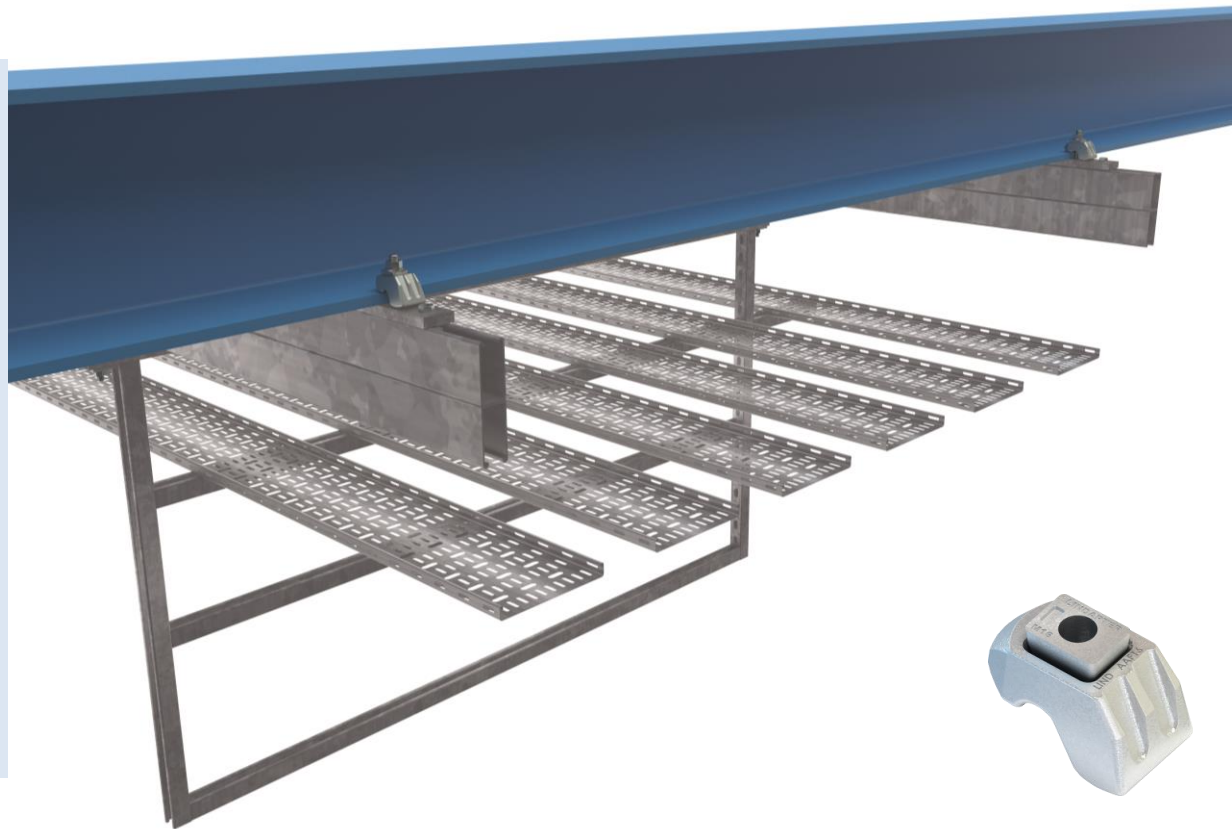
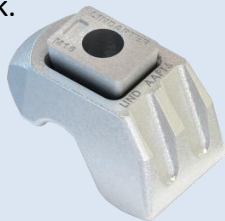
Type CF high slip resistance girder clamps and brackets are used to connect strut channel to the flanges of the primary steel column. The support can be used to hold cable tray or other MEP services vertically.





Back-to-back Strut Channel Framework to Beam

Type AAFs with end plate creates a high strength connection between a back-to-back strut channel framework and primary steel beam. MEP modules or other MEP services can then be suspended from the strut channel framework.



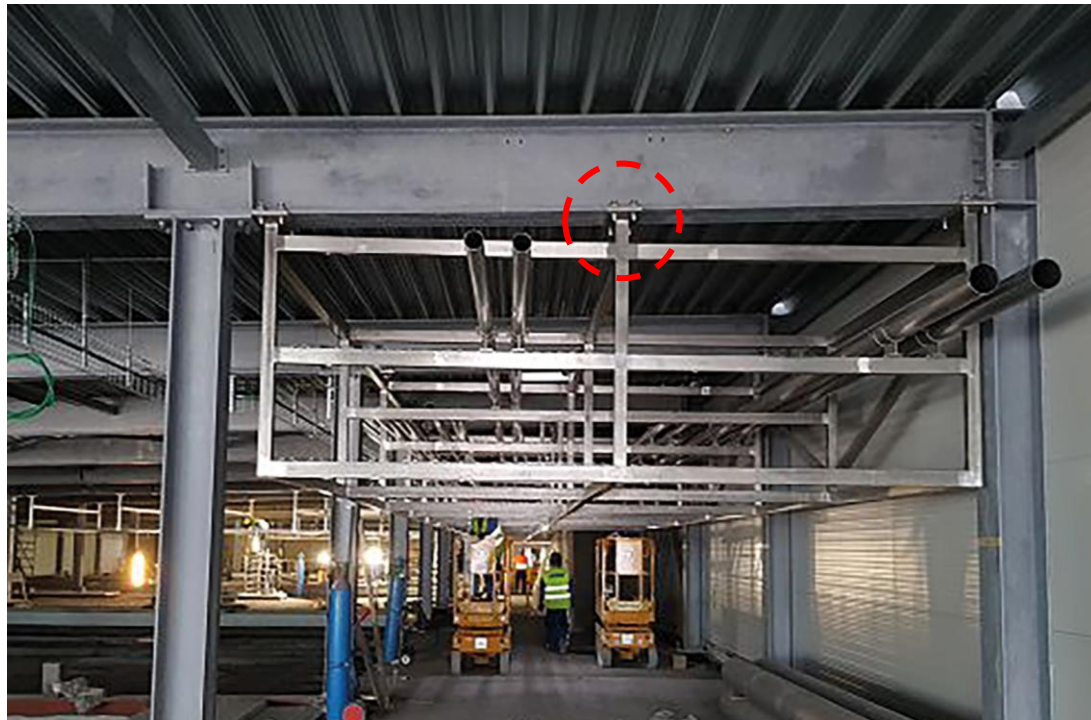
Bridge Example

Back-to-back strut with a stiffener plate is connected to the primary steel of a bridge in the UK using Lindapter Type AAF girder clamps and then the MEP modules are suspended from the strut.



Dairy Production Facility Example

The MEP modules were constructed with pre-drilled end plates. Lindapter Type LS stainless steel girder clamps in a four-bolt configuration were then used to connect the modules directly to the steel frame building in Germany.

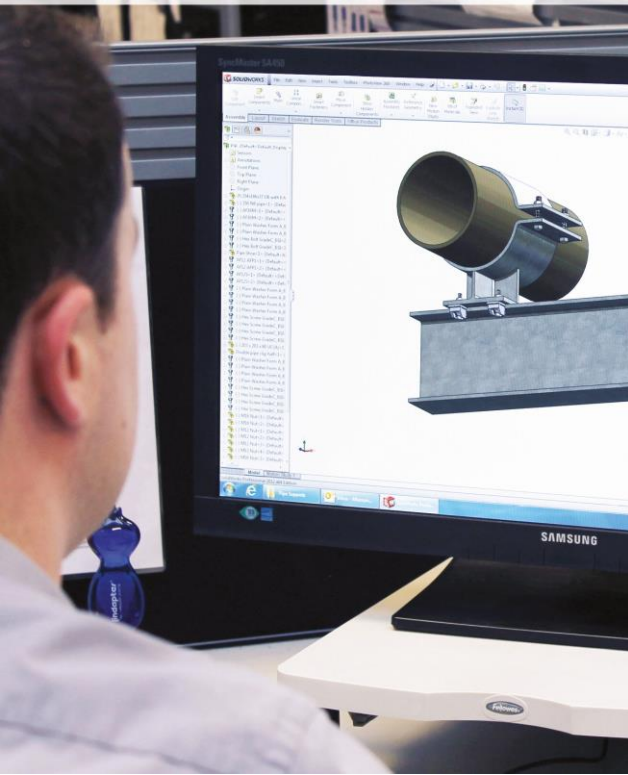


lindapter®
Here to help you...

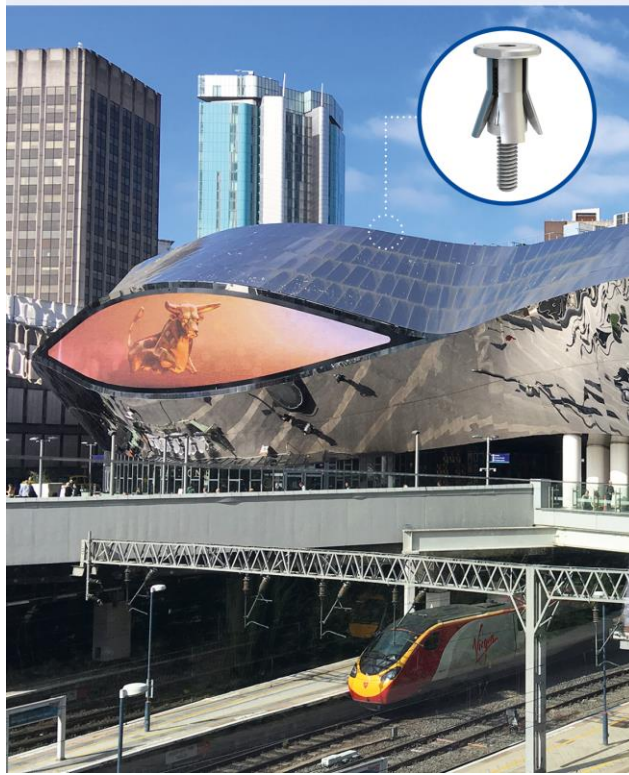


For more details visit
www.Lindapter.com

TECHNICAL SUPPORT



RESEARCH & DEVELOPMENT



lindapter®
Lindapter Ltd

FOR MORE INFORMATION...

**Technical Innovation
in Steelwork Connections**



Faster to Install



No drilling or welding!



Independently Approved



Click to learn more

Our approved steelwork fixings offer a solution for
overcoming challenging steel-to-steel connections.

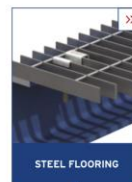
We are the global leader of steelwork clamping systems that provide a faster, cost-effective alternative to onsite drilling or welding. Whether you are designing a structural frame, connecting to existing steelwork or installing building services, our vast range of high quality products will provide a solution for the following applications...



STEEL-TO-STEEL



STRUCTURAL HOLLOW
SECTION



STEEL FLOORING



COMPOSITE DECKING



BUILDING SERVICES



LIFTING & RIGGING

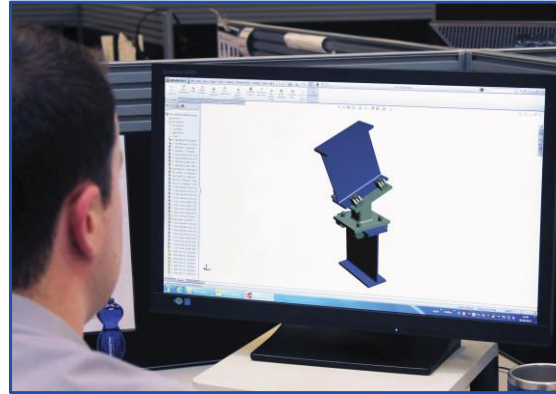
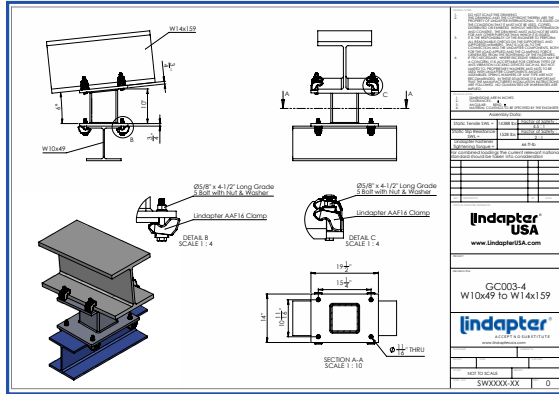


LOW SPEED RAIL

**We are here to
help and support
you**

Our friendly and
experienced team are on
hand to answer your
product or technical
queries.

GET SUPPORT



**Specialist
advice**



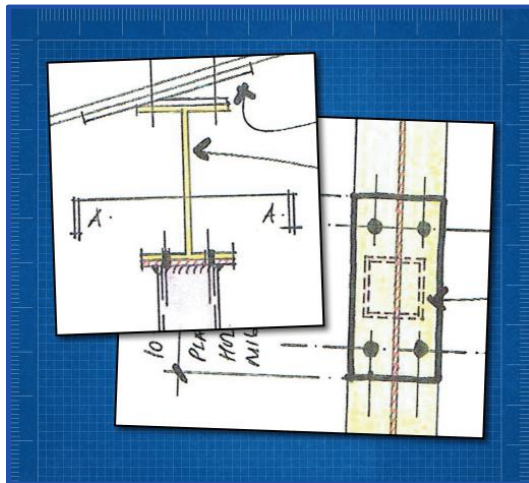
**Site
Visits
Proof/Capacity
checks**



**Contractor
training**

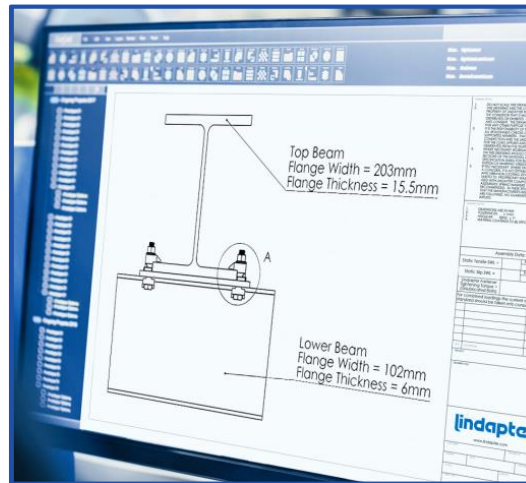


**Free
connection
detailing**



**General
arrangement
sketch**

you will then receive...



2D files



**Interactive
3D files**



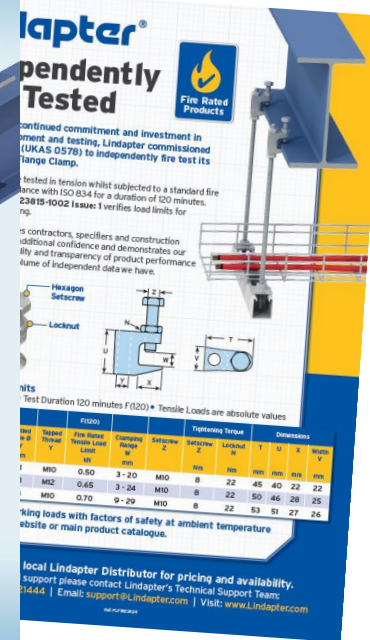
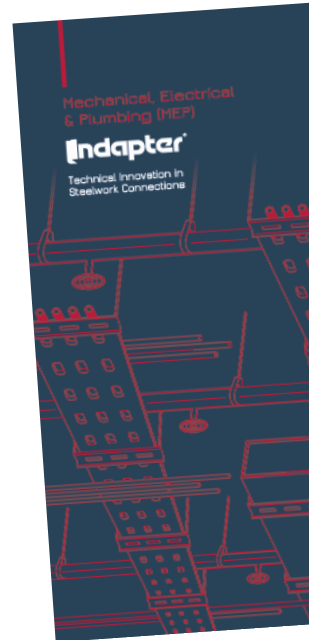
Product Catalogue

- English (Metric)
- English US (Imperial)
- German
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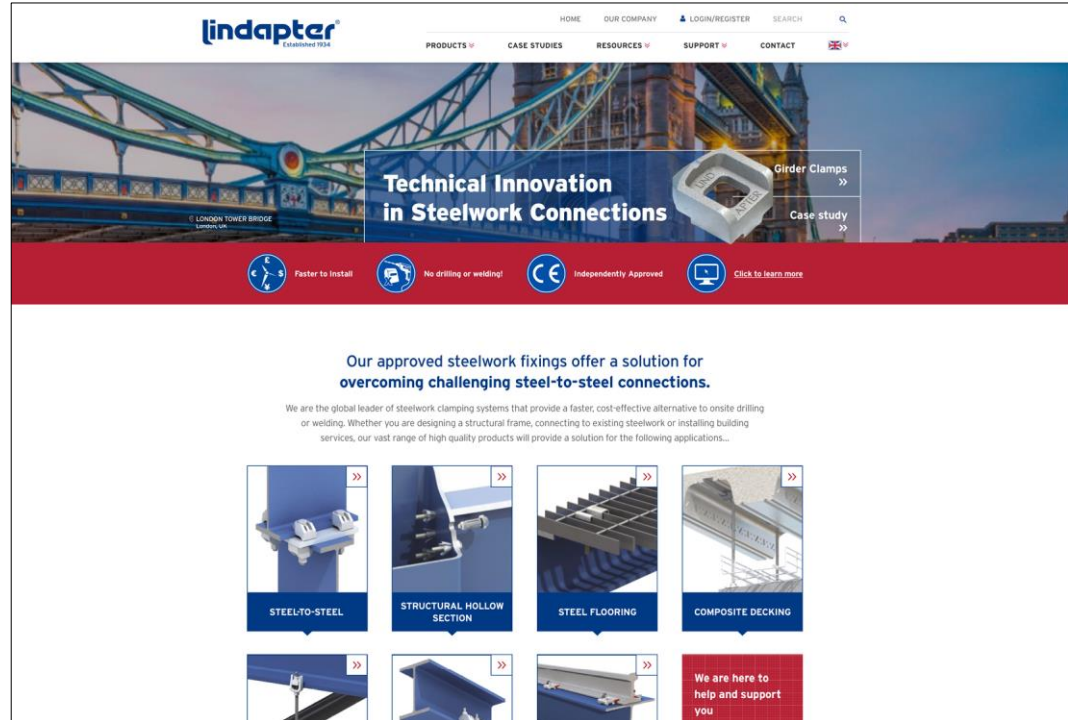
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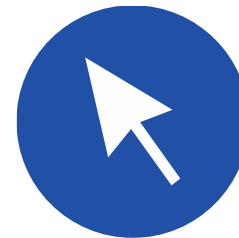




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