

Viribeam Purlins & Accessories Range

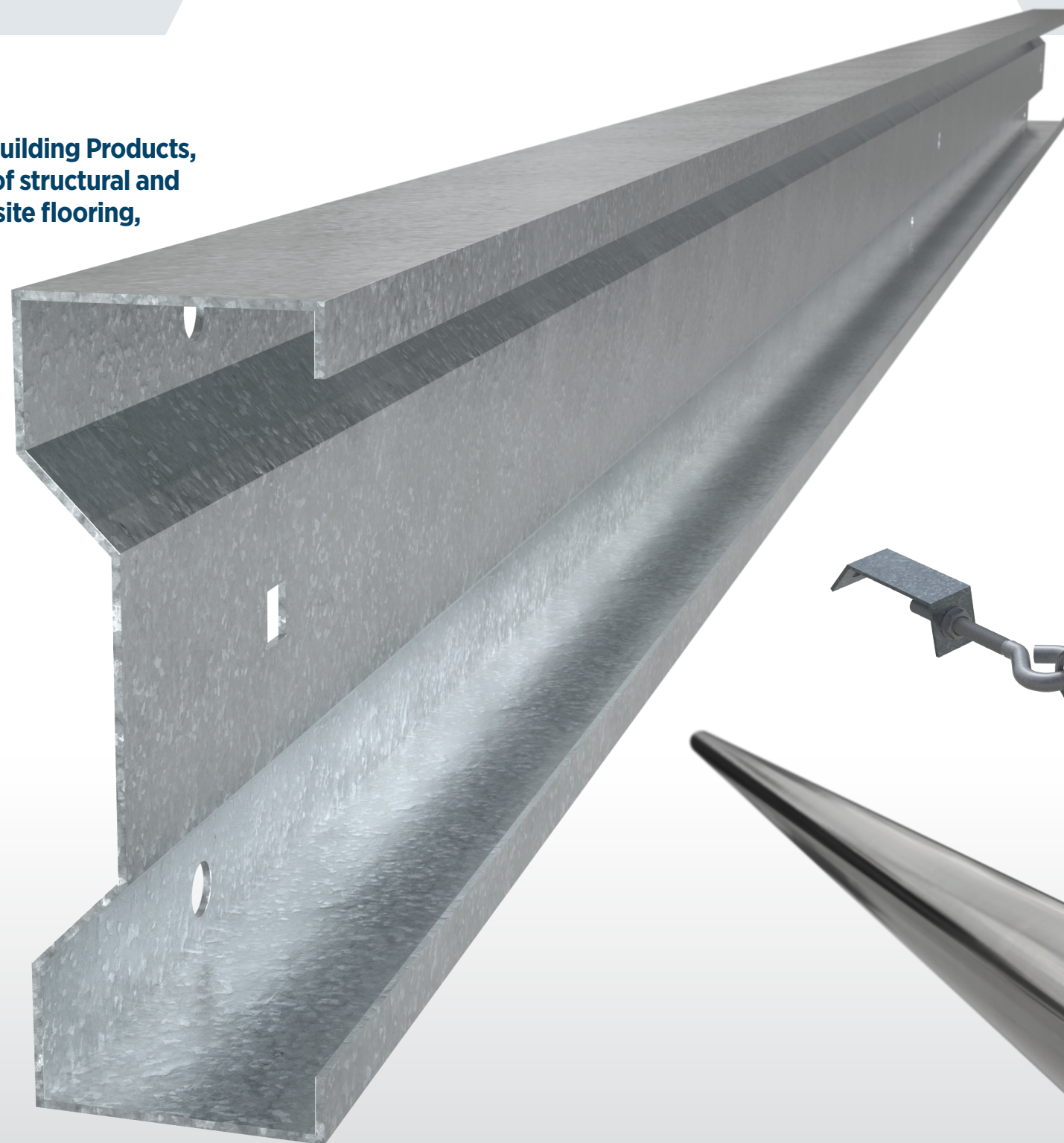
Contents

About Viriform	/ 04
About Viribeam	/ 05
Viribeam Standard Purlins and Rails	/ 06
Viribeam Section Properties	/ 07
Viribeam Coated Purlins and Rails	/ 08
Viribeam Section Properties	/ 09
Viribeam Spanning Systems	/ 10
Punching Details	/ 11
Anti-sag support	/ 12
Restraining against wind suction/pressure	/ 13
Viribeam Component details	/ 14-17
- Cleats	
- Sleeves	
- Rafter Stays	
- Apex Ties	
Viribeam Tie Ropes	/ 18-19
Viribeam Quick-lok Sag Bar	/ 20-21
Viribeam Tube Struts	/ 22-23
Viribeam Rafter Stay	/ 24-25
Viribeam Apex Tie	/ 26-27
Viribeam Eaves Tie	/ 28-29
Standard S450 Galv	/ 30
Load Spans	/ 31-37
Coated S390 Section Reference	/ 38-39
Viribeam Eaves Beam	/ 40-41
Viribeam Eaves Beam Section Properties	/ 42
Eaves Beam S450 Galv Load Span Tables	/ 43-44
Eaves Beam Coated Purlin S390 Load Span Tables	/ 45
Technical Support	/ 46
Sustainability and Standards	/ 47

About Viriform

Viriform, formerly known as Tegral Building Products, is one of Ireland's leading suppliers of structural and industrial metal products for composite flooring, roof decking and roofing and cladding.

Working with engineers and fabricators across Ireland for decades, we aim to create value by offering a sustainable and value-added steel product range supported by unrivalled customer service. Innovation and continuous improvement are at the heart of what we do, and by working in partnership with you, we strive to provide you with the best solutions to meet your needs and help your business to perform. Offering a wide range of products, systems and services specifically developed for the construction market.



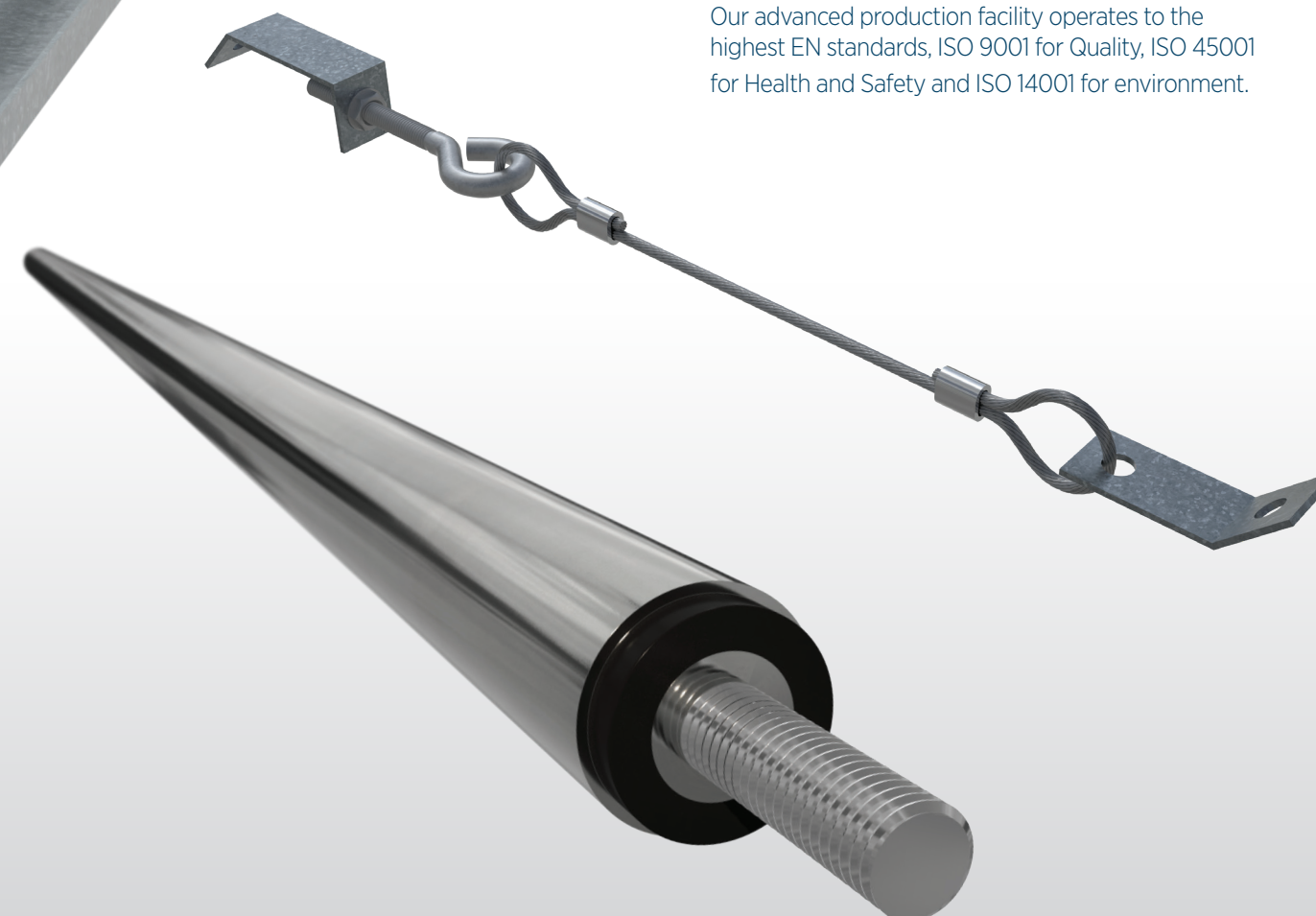
About Viribeam

Based on years of knowledge and experience Viriform's Viribeam offers a comprehensive range of Sigma profile purlins and compatible accessories.

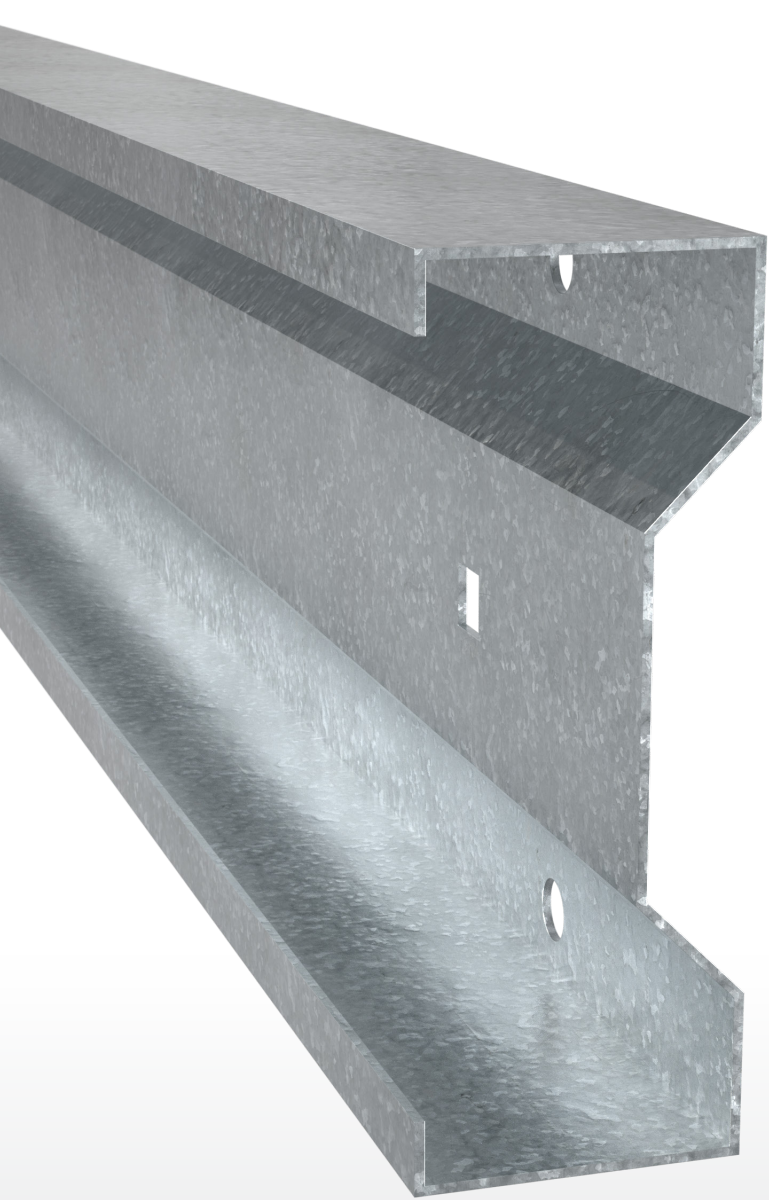
Designed for economy, quality, consistency and ease of use, Viribeam purlins are manufactured using steel coil, with hot dipped galvanised Z275 coating.

This complete system has been developed through testing and analysis to meet the needs of engineers and specifiers.

Our advanced production facility operates to the highest EN standards, ISO 9001 for Quality, ISO 45001 for Health and Safety and ISO 14001 for environment.



Viribeam Standard Purlins and Rails



Features and Dimensions

- 6 depths available
- Suits most types of roof and wall cladding
- Suitable for normal environments
- Lengths up to 16m
- M12 Bolts Used for Connections

Spanning System

- Double Span
- Single Span Sleeved
- Single Span Butted

Material Specification

Steel Grade:	S450GD BS EN 10346
Minimum yield strength	460MPa
Corrosion protection	Hot-dip zinc coating
Coating designation:	Z275
Coating mass:	275g/m ²

How to specify

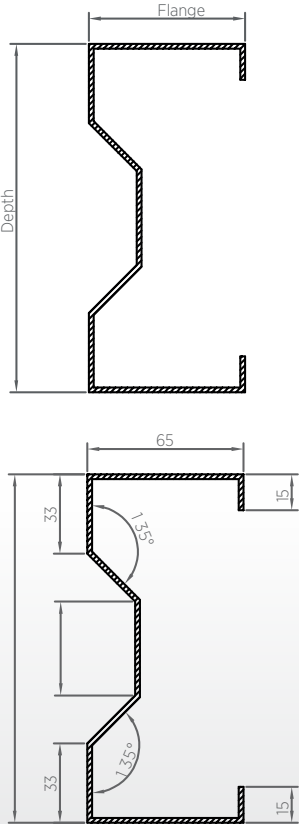
Product	Section Depth	Thickness
VB	145	15
VB 145/15		

Viribeam Section Properties

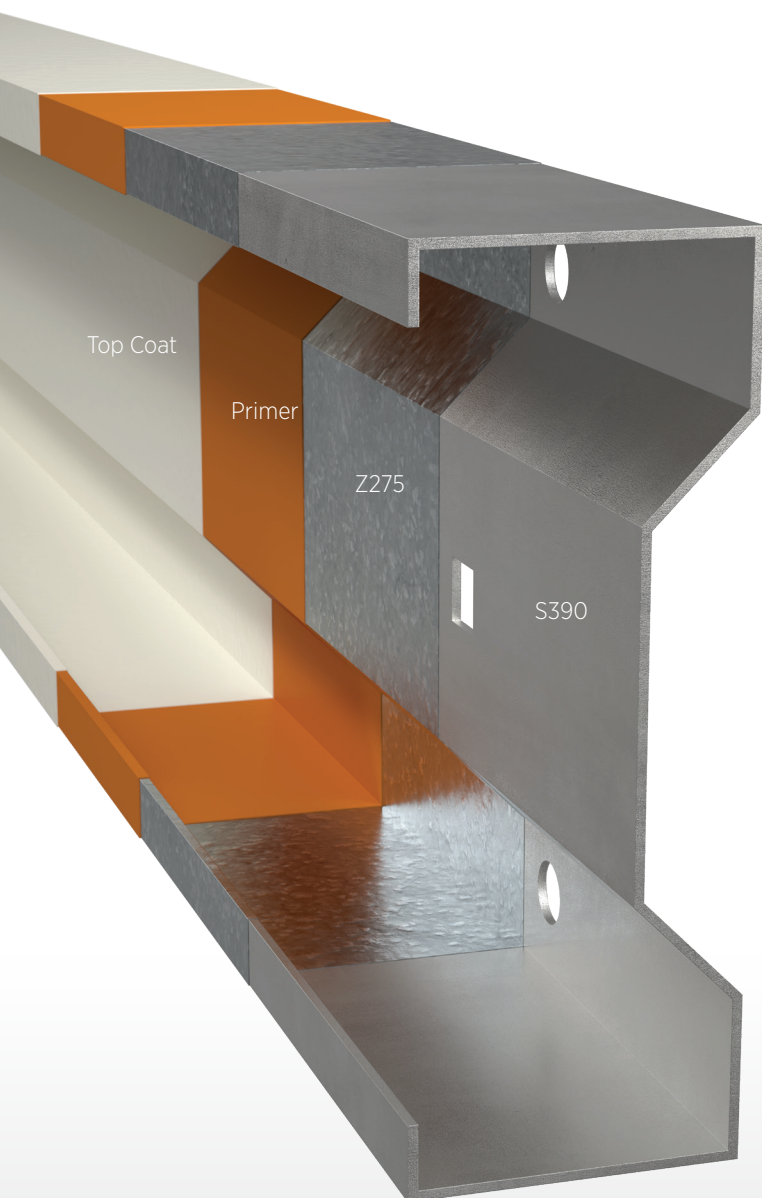
Standard Purlin - Section Range

Section Depth (mm)	Thickness (mm)
VB14515	Available in 1.5, 1.8, 2.0, 2.5mm gauge thickness
VB17515	
VB20515	
VB23515	
VB26515	
VB30015	
VB14518	
VB17518	
VB20518	
VB23518	
VB26518	
VB30018	
VB14520	
VB17520	
VB20520	
VB23520	
VB26520	
VB30020	
VB14525	
VB17525	
VB20525	
VB23525	
VB26525	
VB30025	

Important notes
Section properties have been calculated in accordance with Eurocode 3, BS EN 1993-1 3:2006. The top flange of the purlin must have adequate restraint provided by robust steel sheeting (or similar) fixed directly to the top flange.



Viribeam Coated Purlins and Rails



Product Features

- Lightweight
- Suitable for most roof and wall claddings
- Lengths of up to 16 metres
- Simple component fixings for maximum efficiency
- Suitable for most spanning systems
- Coated offers additional corrosion protection
- Polyester paint topcoat, on primer, on steel substructure
- Symmetrical for use on both sides of pitched roofs

Material Specification

Steel Grade:	S390
Minimum yield strength	390MPa
Corrosion protection	Organically coated Hot-dip zinc coating properties to EN 10169:2010
Zinc coating:	Z275
Primer:	25µm thick flexible primer applied on both sides.
Top Coat:	20µm thick flexible chemical and corrosion resistant Polyester Resin finish applied on each side.
Colour	White

Viribeam Section Properties

Coated Purlin - Section Range

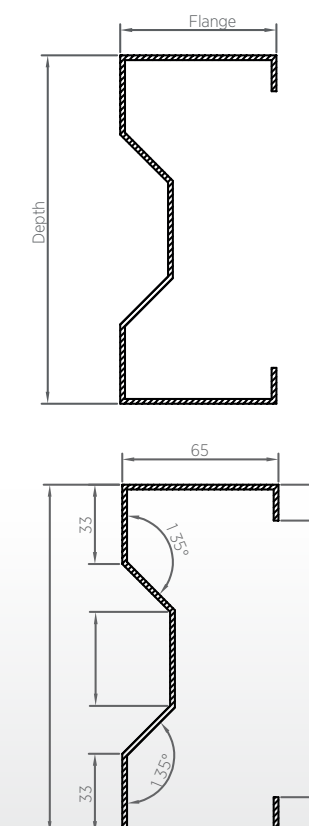
Section Depth (mm)	Thickness (mm)
VBC14515	Available in 1.5 and 2.0mm
VBC17515	
VBC20515	
VBC14520	
VBC17520	
VBC20520	

How to specify

Product	Section Depth	Thickness
VBC	145	15
VBC 145/15		

Important notes

Section properties have been calculated in accordance with Eurocode 3, BS EN 1993-1-3:2006. The top flange of the purlin must have adequate restraint provided by robust steel sheeting (or similar) fixed directly to the top flange.

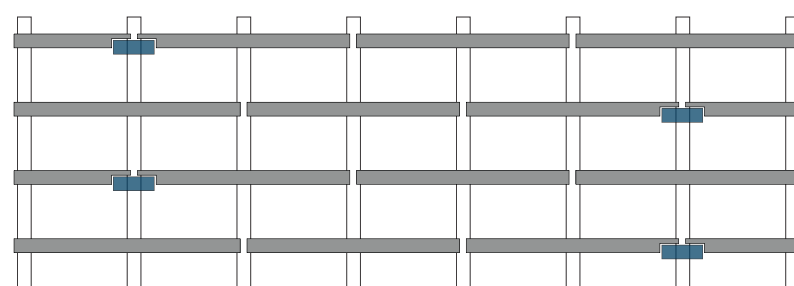


Viribeam Spanning Systems

Each arrangement of Viribeam purlins and ancillary members is intended to maximise efficiency and economy on site.

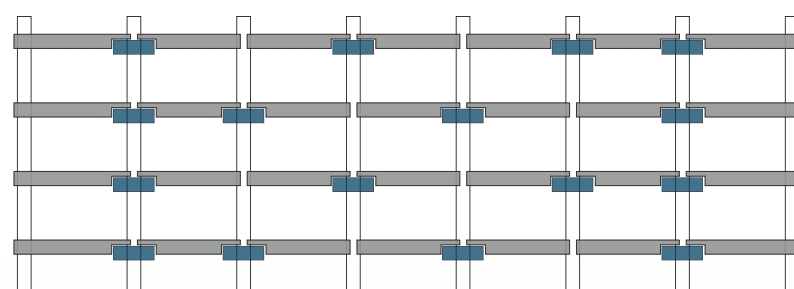
Double Span

Double spanning sections combined with single spanning sections with staggered joints and sleeves. Minimum number of components on site leading to faster erection.



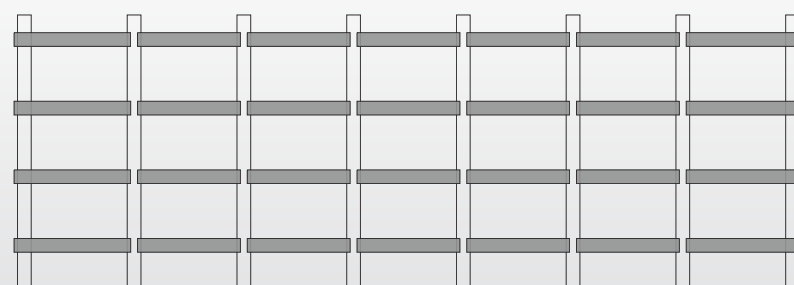
Single Span Sleeved

Single spanning sections with sleeves at alternate supports. Sleeves are required to all purlins across the penultimate support to maintain continuity of the system. Sleeves act as mechanical hinges to provide maximum structural efficiency for the number of components employed.



Single Span Butted

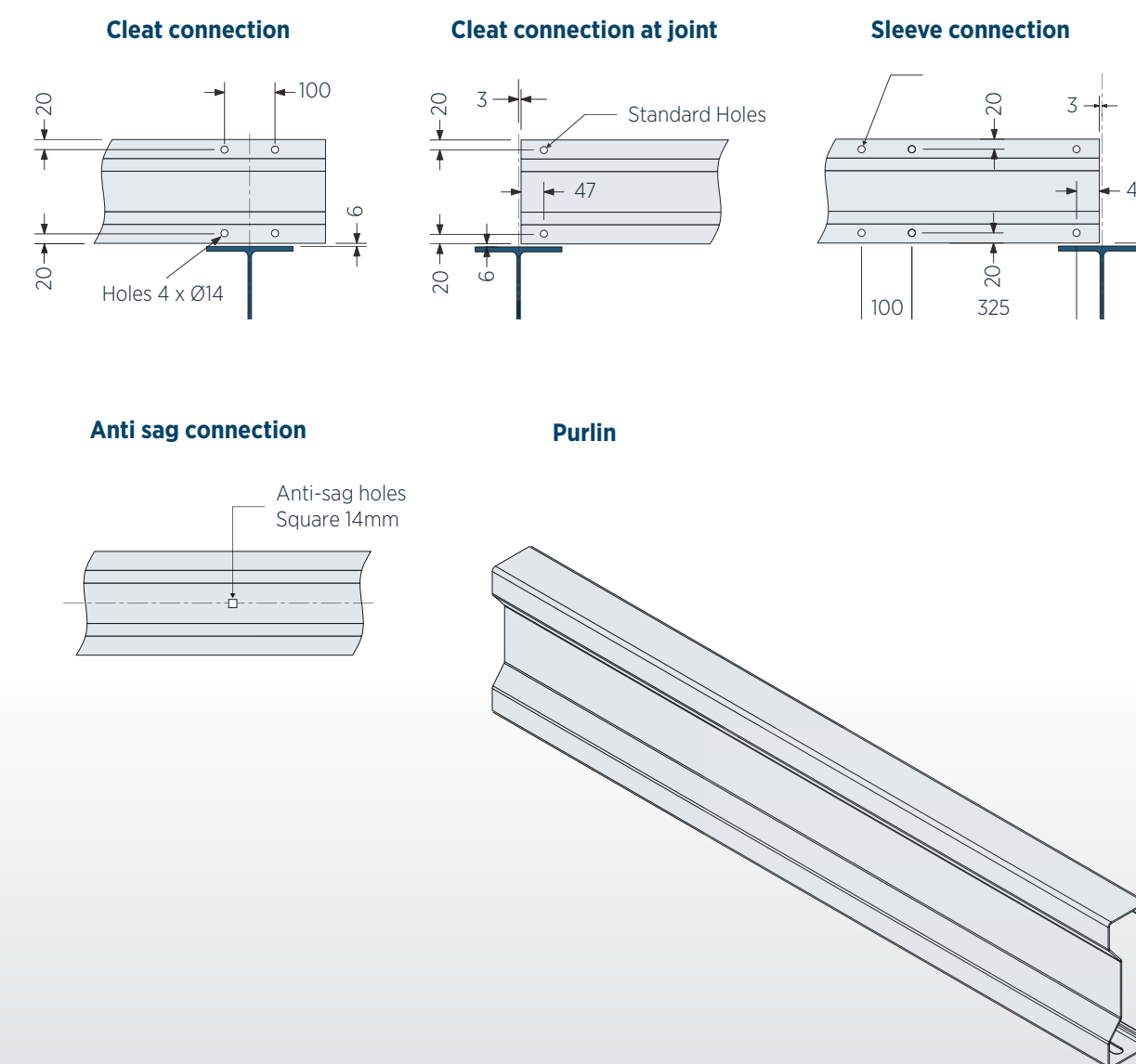
Single span, non-continuous may be used where depth restriction dictate that the sections must sit within the depth of the main frames or where a continuous system is not necessary to achieve the required load capacity.



Punching Details

The diagrams below show the typical punching details for many common connections.

"Component details" on page 16 for information on accessories.



Anti-sag support

To maintain the correct alignment and help prevent distortion of the purlin during sheeting, sag bars should be fitted in accordance with the minimum recommendations shown in the anti-sag requirements for common applications table.

The top flange of the purlin requires adequate restraint which is provided by robust steel sheeting screw fixed directly to the outer flange. (Consideration should be given to purlins clad with any other material as recommended restraints may vary).

The guidance below is applicable to the most common situations and should be read in conjunction with any additional information which may affect its design.

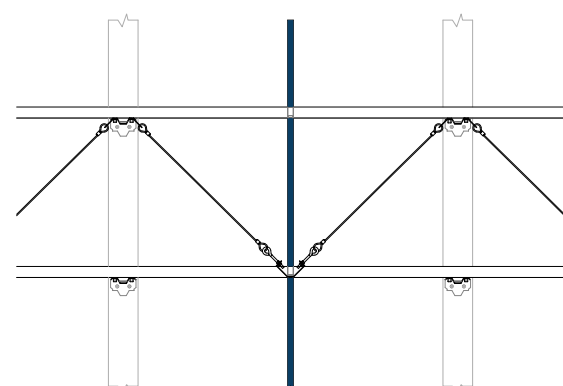
Anti-sag for common applications - Tube Strut & Tie Rope

Span (m) up to and including 6.1m

For spans up to and including 6.1m anti sag supports are recommended at:

Mid span

Components: Tube Struts and Tie ropes are used as shown



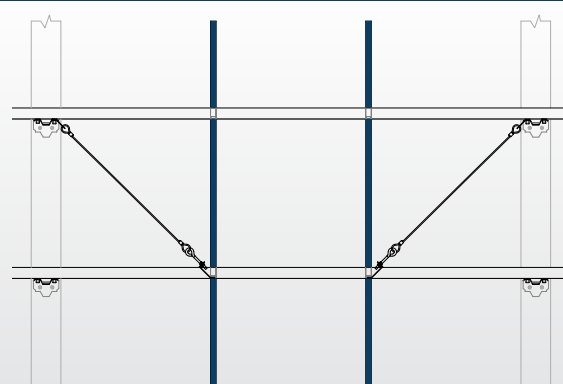
Anti-sag for common applications - Tube Strut & Tie Rope

Span (m): 6.1-9m

For spans greater than 6.1m up to and including 9m Anti-sag supports are recommended at:

1/3 span

Components: Tube Struts and Tie ropes are used as shown

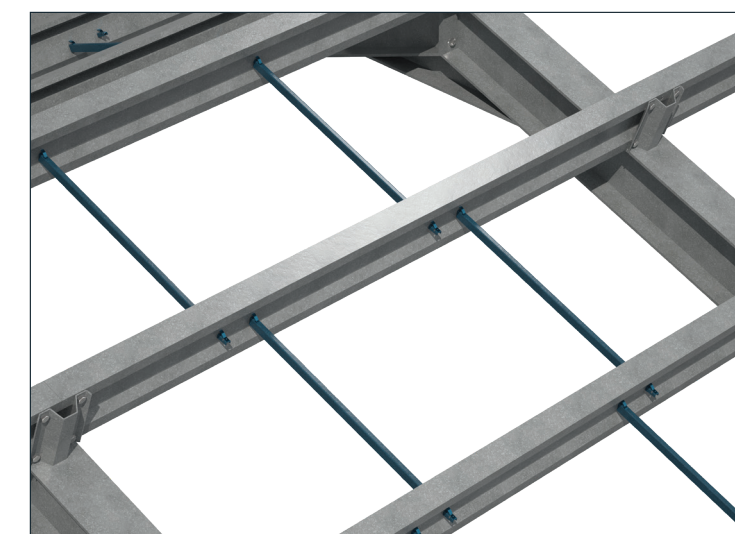


Restraining against wind suction/pressure

Anti-sag support restrains purlins during wind uplift and must be used in conjunction with Apex ties.

Working load capacities for wind pressure and suction must be checked on design tables. The load capacities assume the rails support a screw fixed steel cladding system.

Typical layouts are shown.



One and two restraints

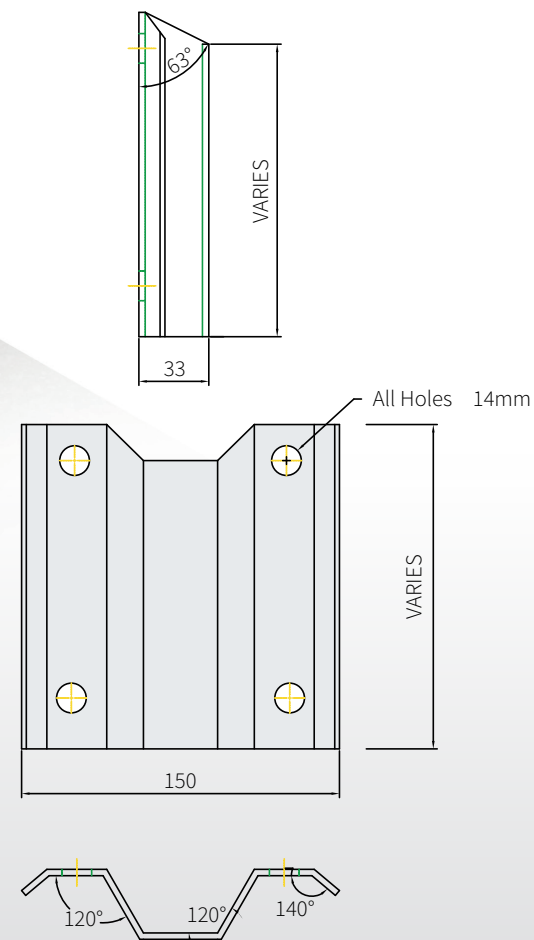
Sag Bar Requirements for Roof Purlins (Spans up to)

Roof Slope	Section Size	4.5m	5.0m	6.0m	7.0m	8.0m	9.0m	10.0m
<4°		Consult Technical Services Department						
4°-10°	145	No Anti-Sags Required			1 No Quick Lok	2 No Quick Lok	2 No Quick Lok	3 No Quick Lok
	175							
	205	N/A			1 No Quick Lok	2 No Quick Lok	2 No Quick Lok	3 No Quick Lok
	235							
	265							
10°-15°	300	1 No Quick Lok			1 No Quick Lok	2 No Quick Lok	2 No Quick Lok	3 No Quick Lok
	145							
	175							
	205							
	235							
	265							
	300							

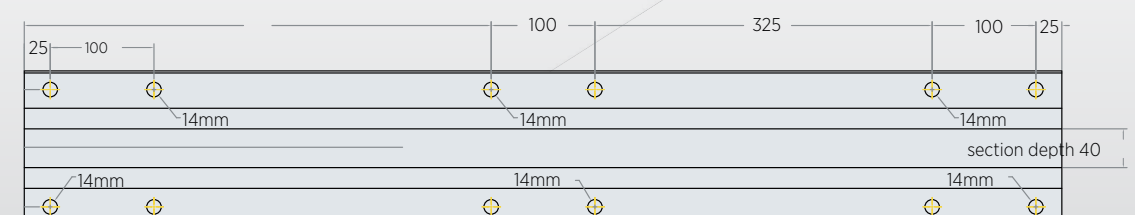
Viribeam Component details

Cleats

Weld on cleat shown.
Bolt on cleats also available.

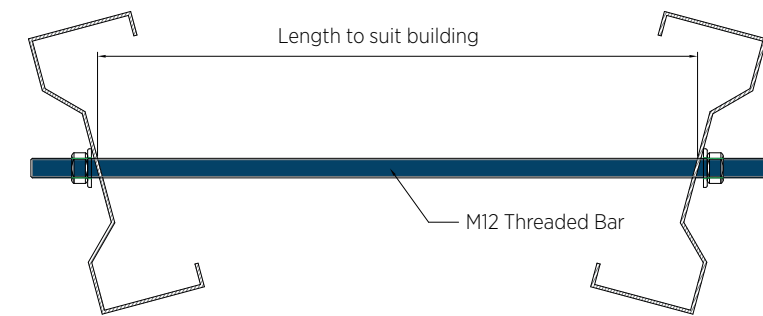
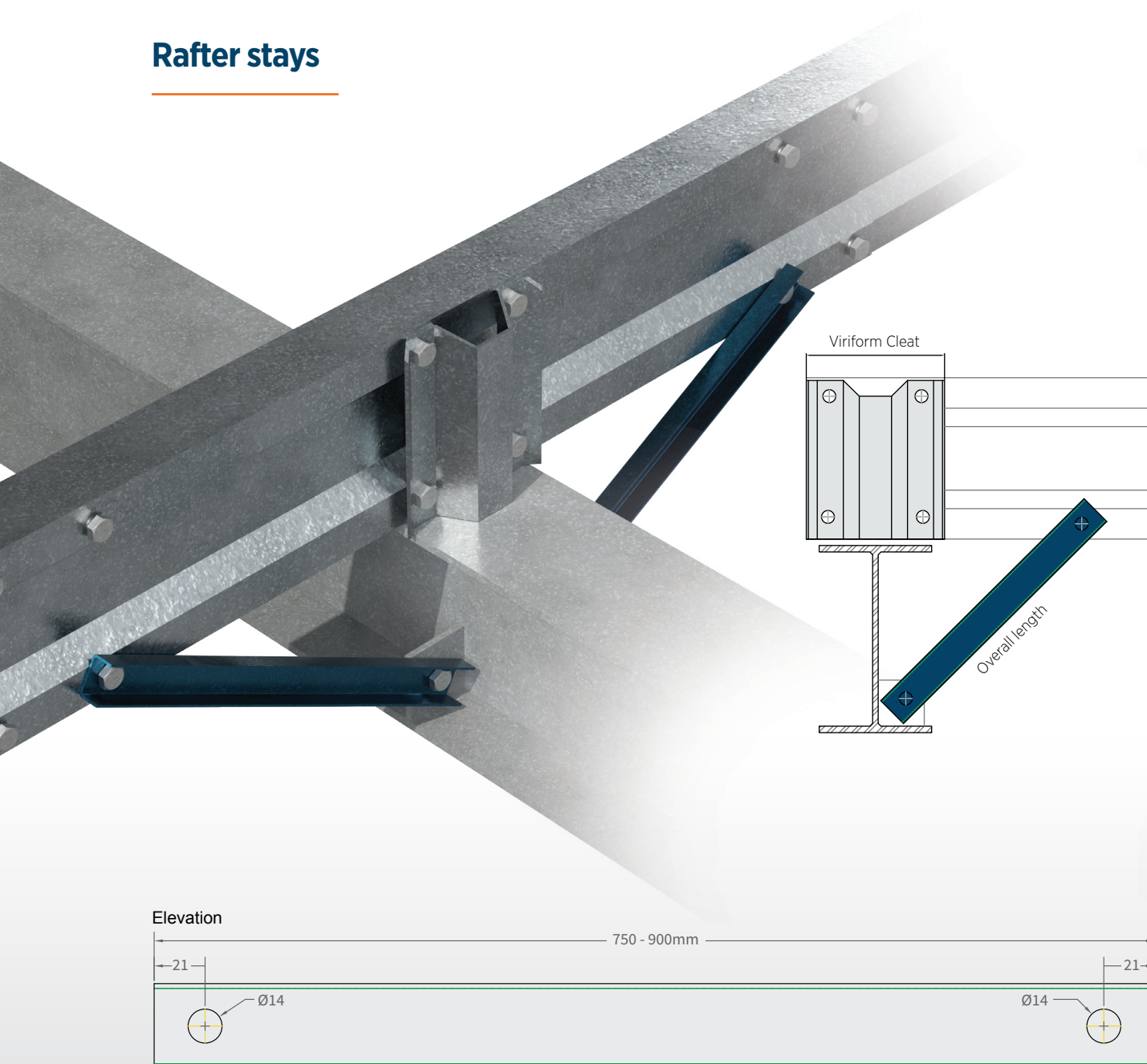


Sleeves

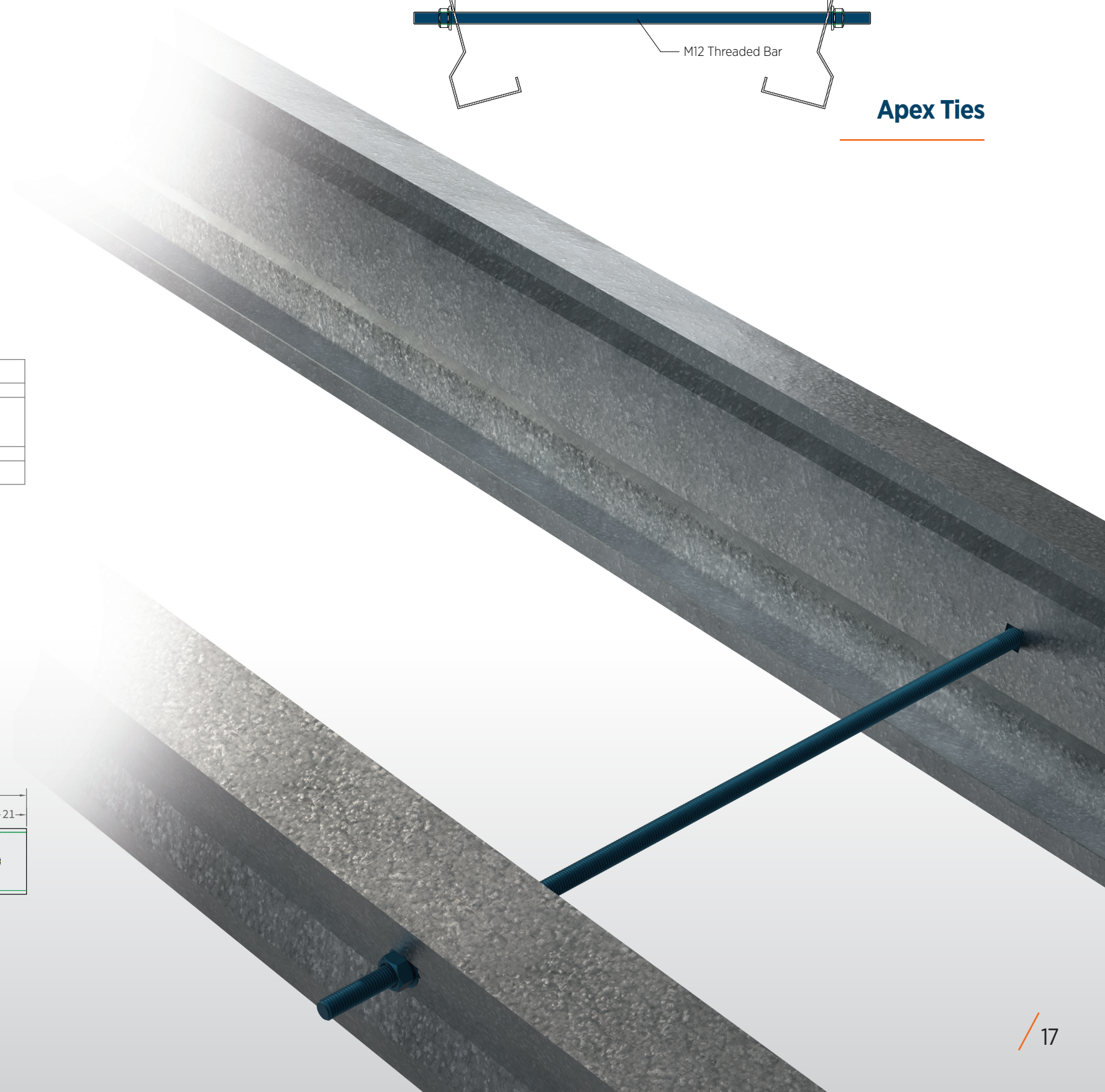


Viribeam Component details

Rafter stays



Apex Ties

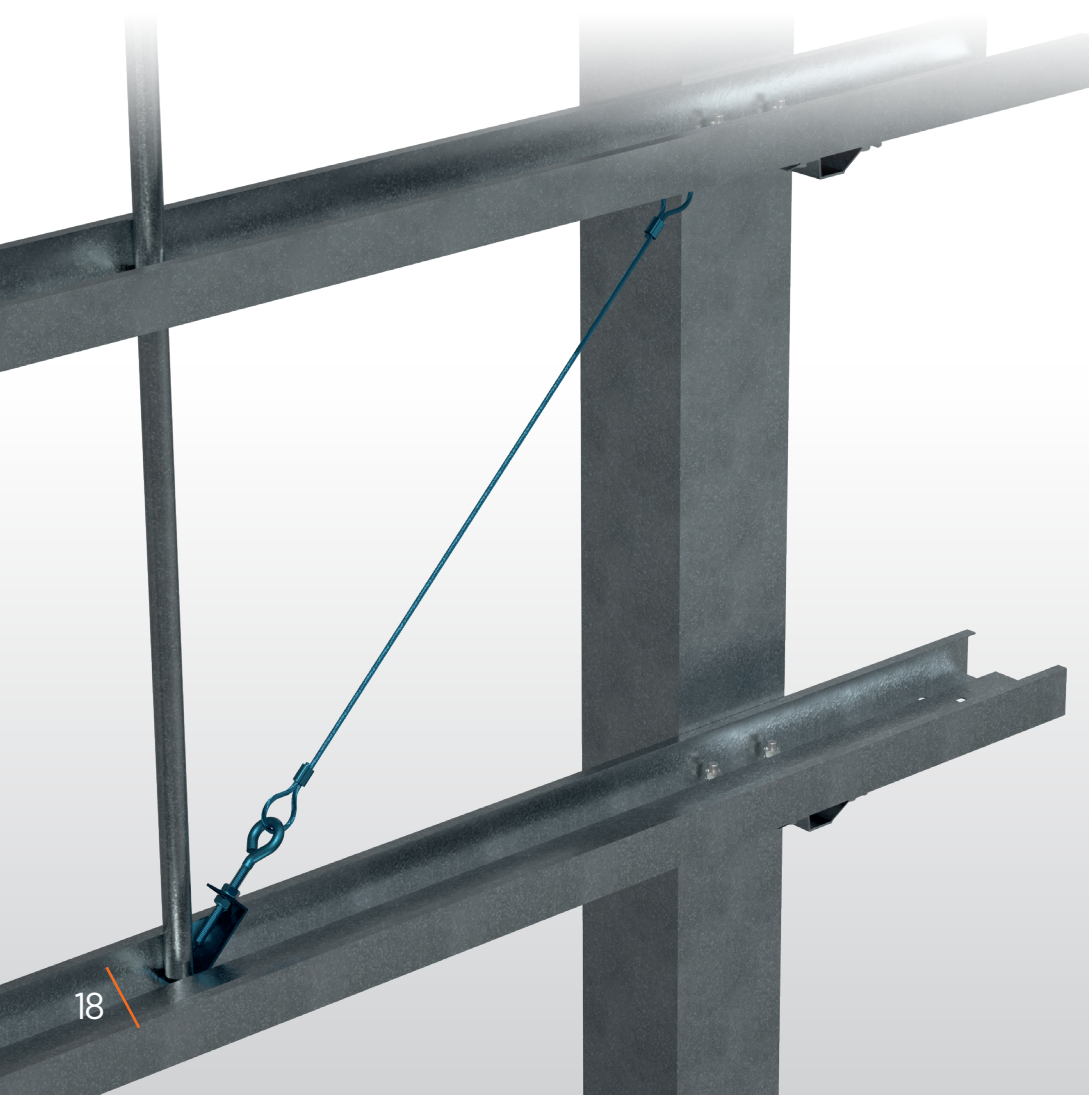
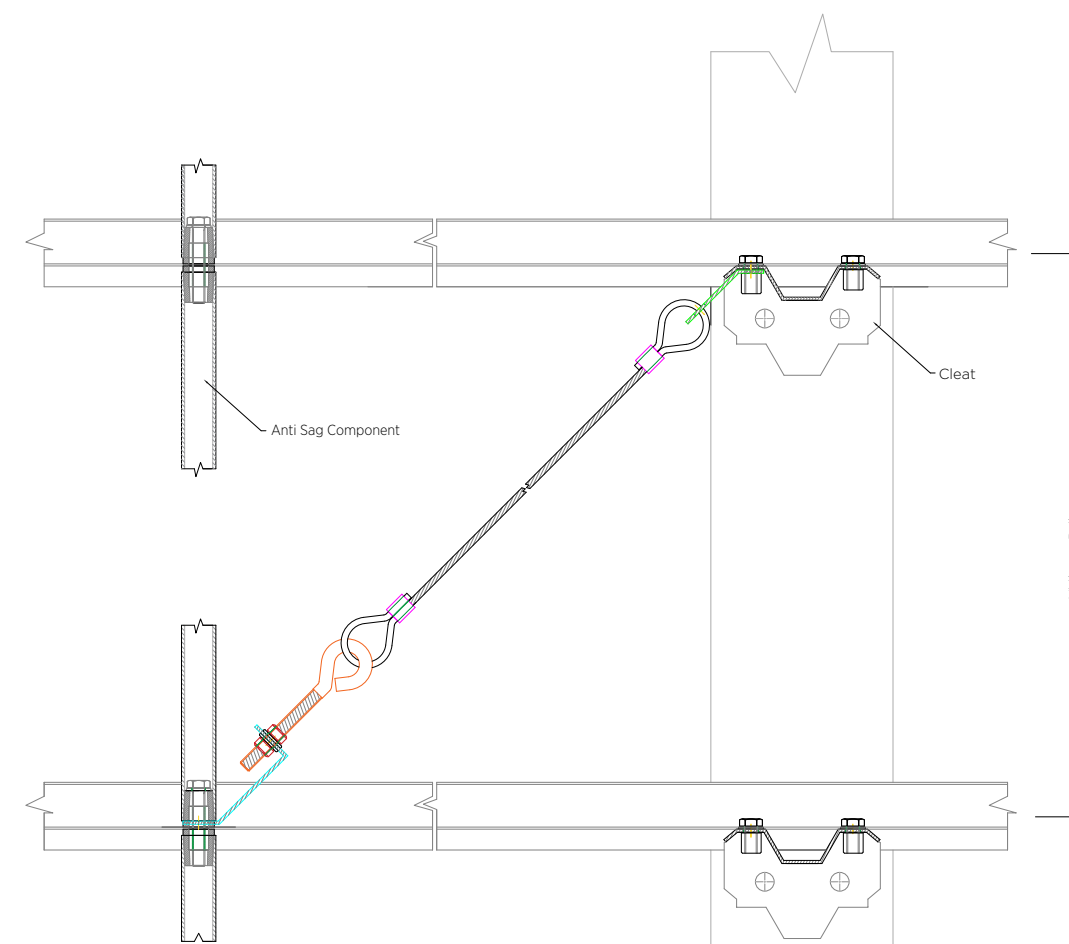


Viribeam Tie Ropes

Used as an anti-sag component

The Viribeam Tie Rope provides diagonal bracing that may be necessary to share load carrying capacities in both the roof and vertically through the cladding bays. The tie rope assembly overall length is measured from the fixing hole in the brackets at both ends.

The tie rope is tightened using the nut on the eyebolt which is included in the tie rope assembly. The length is made to your requirement. The tie rope is connected using a bracket to the anti-sag component and to the cleat on the stanchion.

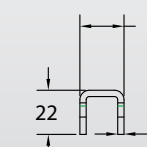
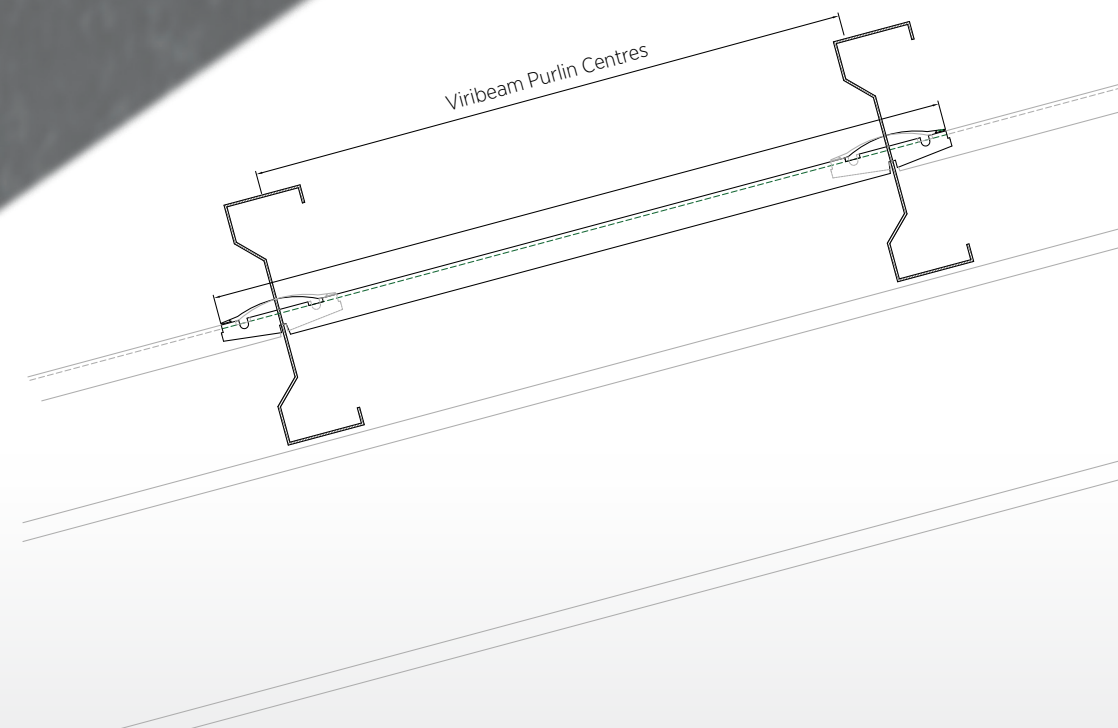
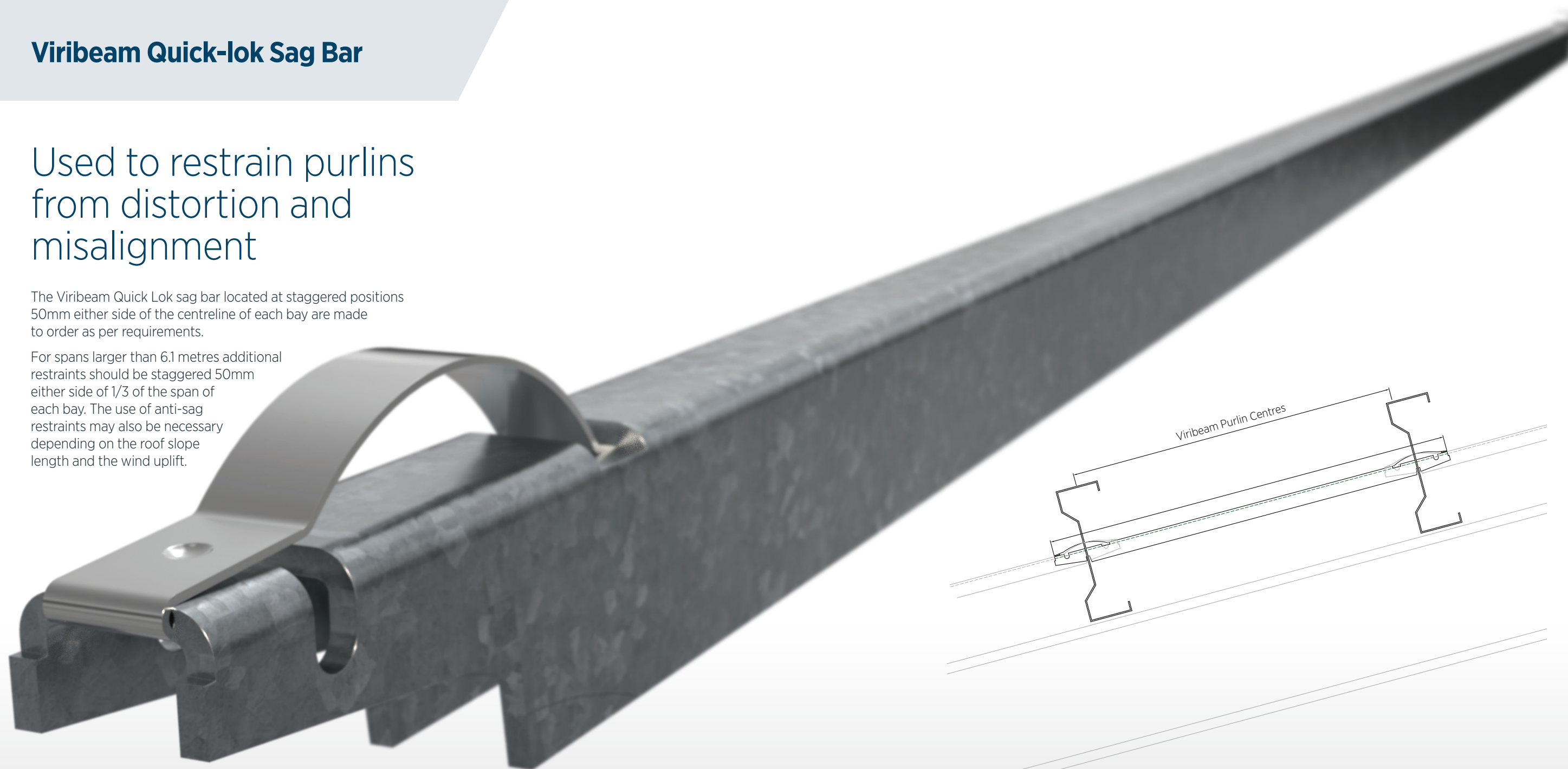


Viribeam Quick-lok Sag Bar

Used to restrain purlins from distortion and misalignment

The Viribeam Quick Lok sag bar located at staggered positions 50mm either side of the centreline of each bay are made to order as per requirements.

For spans larger than 6.1 metres additional restraints should be staggered 50mm either side of 1/3 of the span of each bay. The use of anti-sag restraints may also be necessary depending on the roof slope length and the wind uplift.

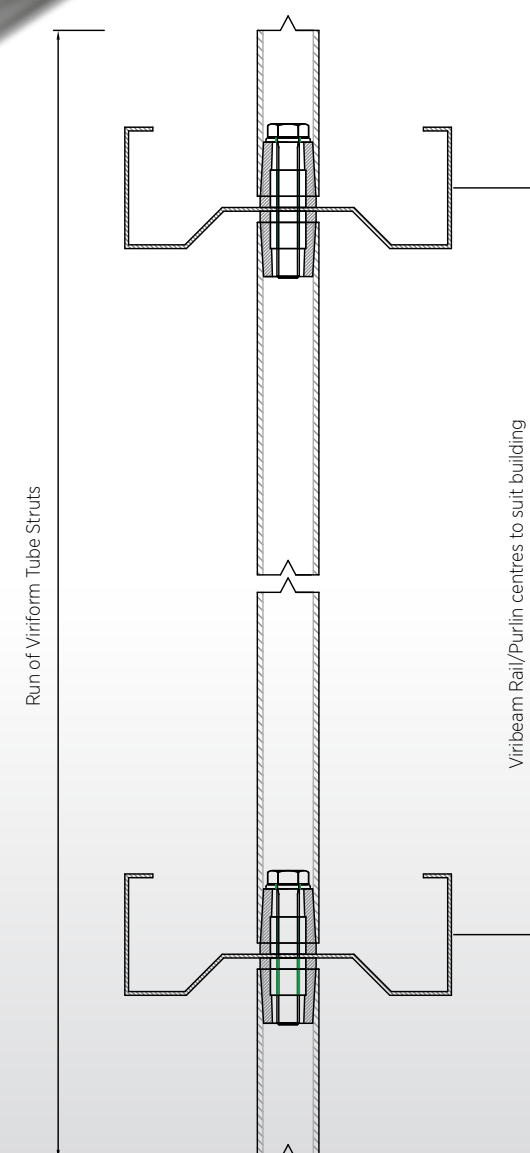
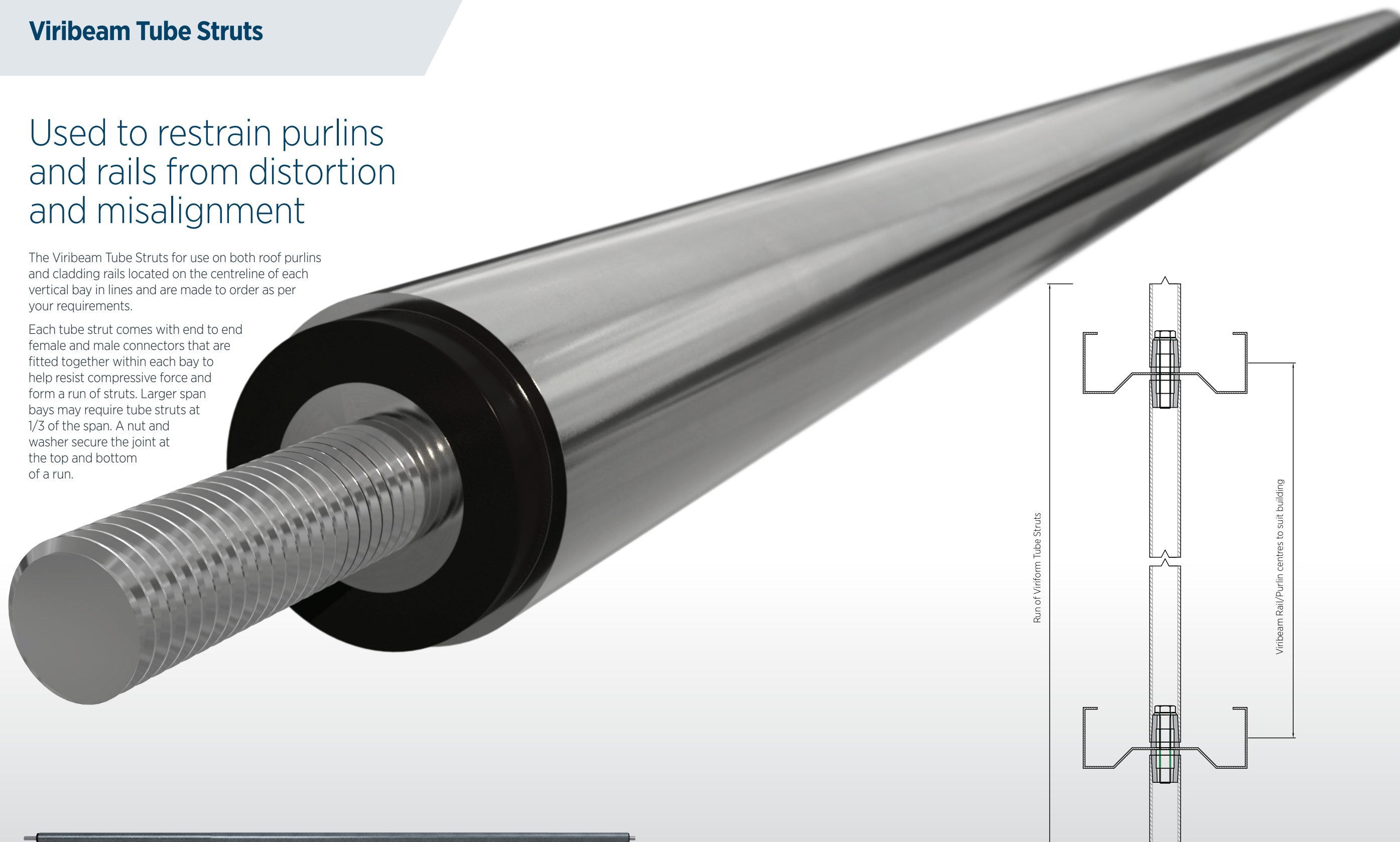


Viribeam Tube Struts

Used to restrain purlins and rails from distortion and misalignment

The Viribeam Tube Struts for use on both roof purlins and cladding rails located on the centreline of each vertical bay in lines and are made to order as per your requirements.

Each tube strut comes with end to end female and male connectors that are fitted together within each bay to help resist compressive force and form a run of struts. Larger span bays may require tube struts at 1/3 of the span. A nut and washer secure the joint at the top and bottom of a run.

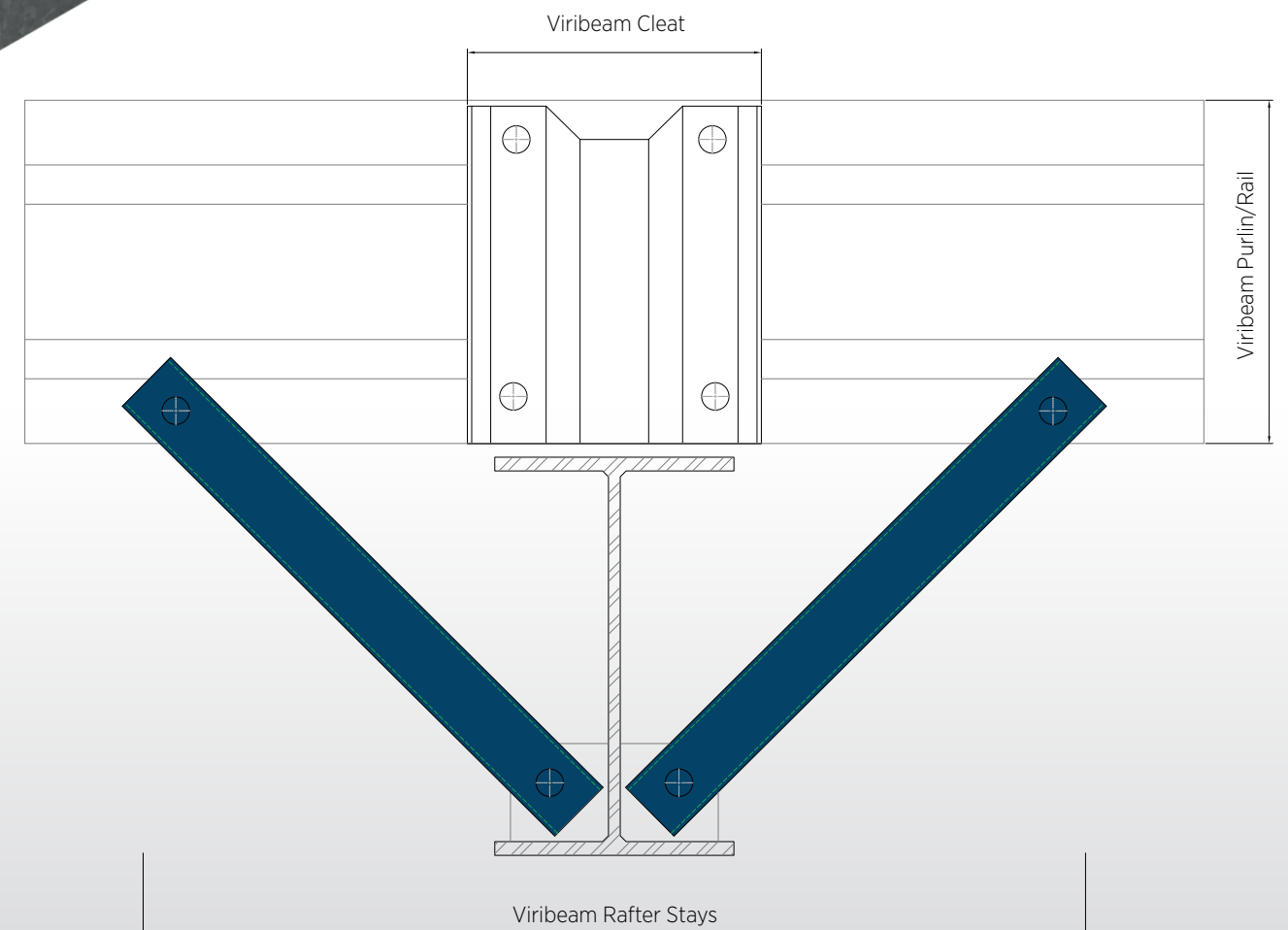
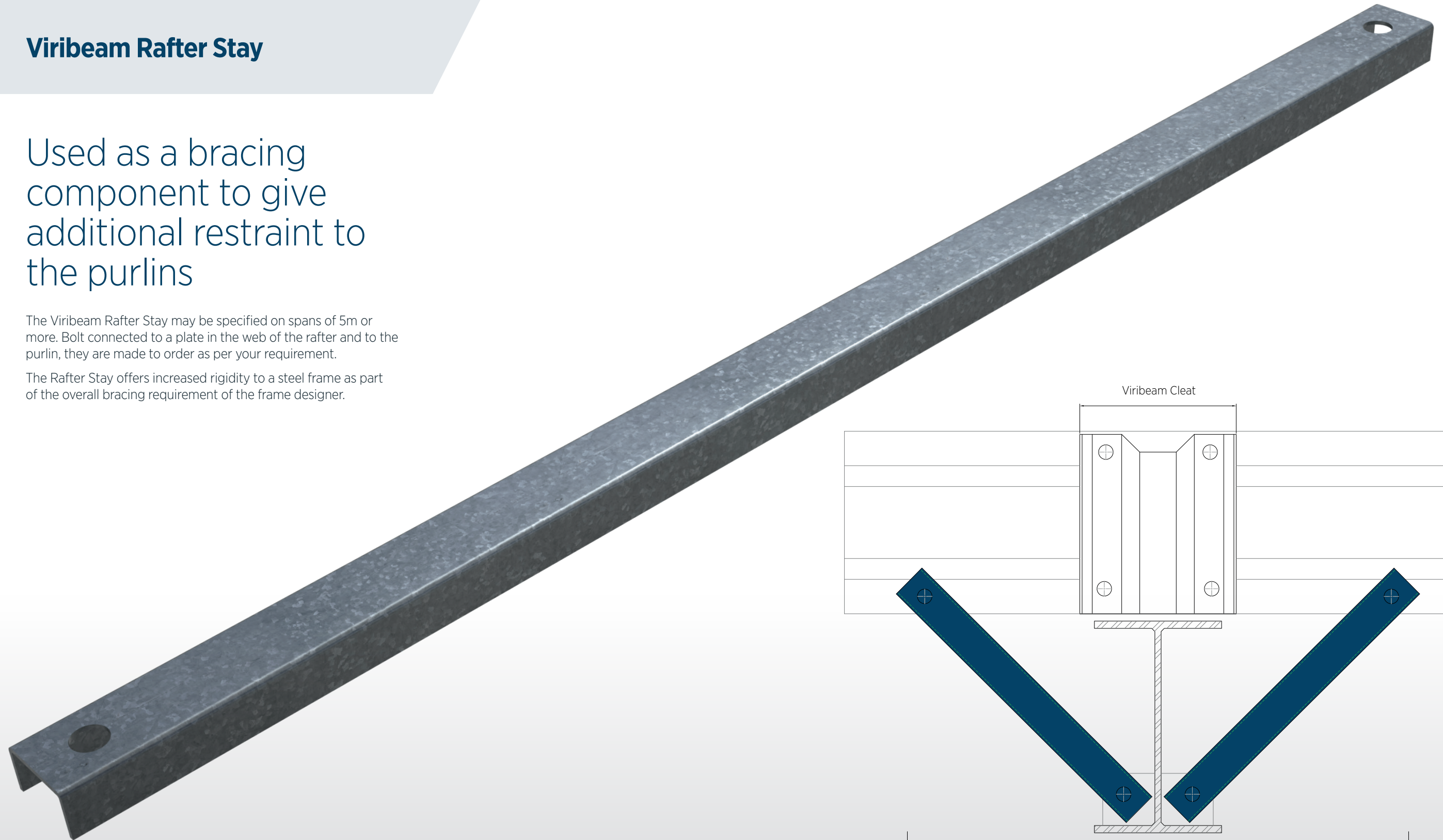


Viribeam Rafter Stay

Used as a bracing component to give additional restraint to the purlins

The Viribeam Rafter Stay may be specified on spans of 5m or more. Bolt connected to a plate in the web of the rafter and to the purlin, they are made to order as per your requirement.

The Rafter Stay offers increased rigidity to a steel frame as part of the overall bracing requirement of the frame designer.

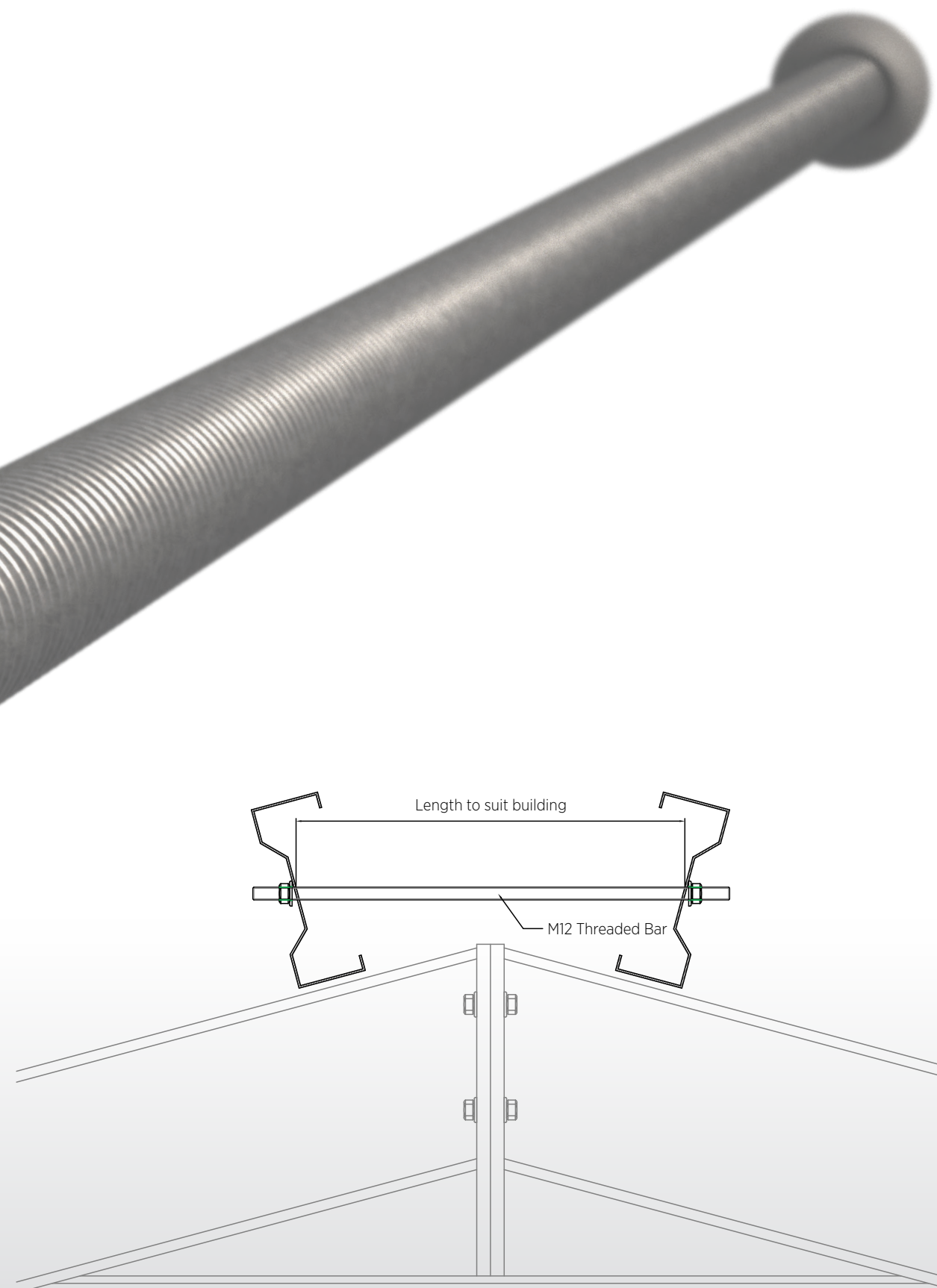


Viribeam Apex Tie

Used as an anti-sag component at the apex of the roof

The Viribeam Apex Tie reduces the down slope deflection of the purlins by tying the top row of purlins on both sides together. The increased rigidity allows further anti-sag components such as anti-sag bar or Tube Struts to be secured to the top row purlins.

The Apex Tie is made to order to suit your requirement.

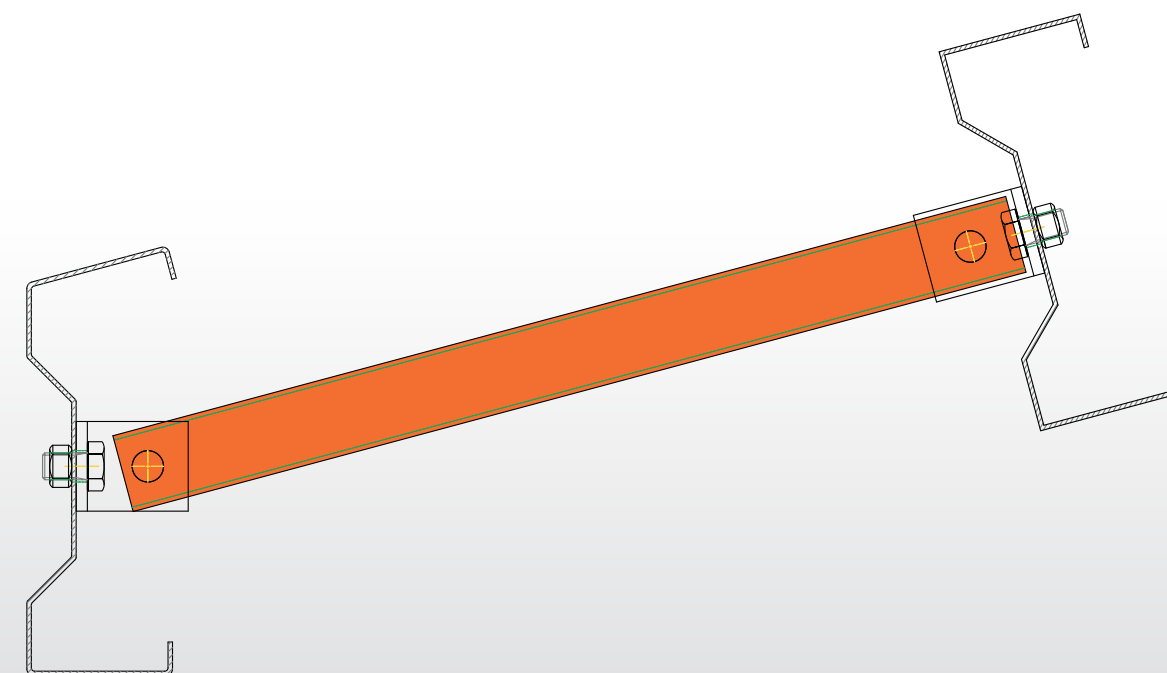
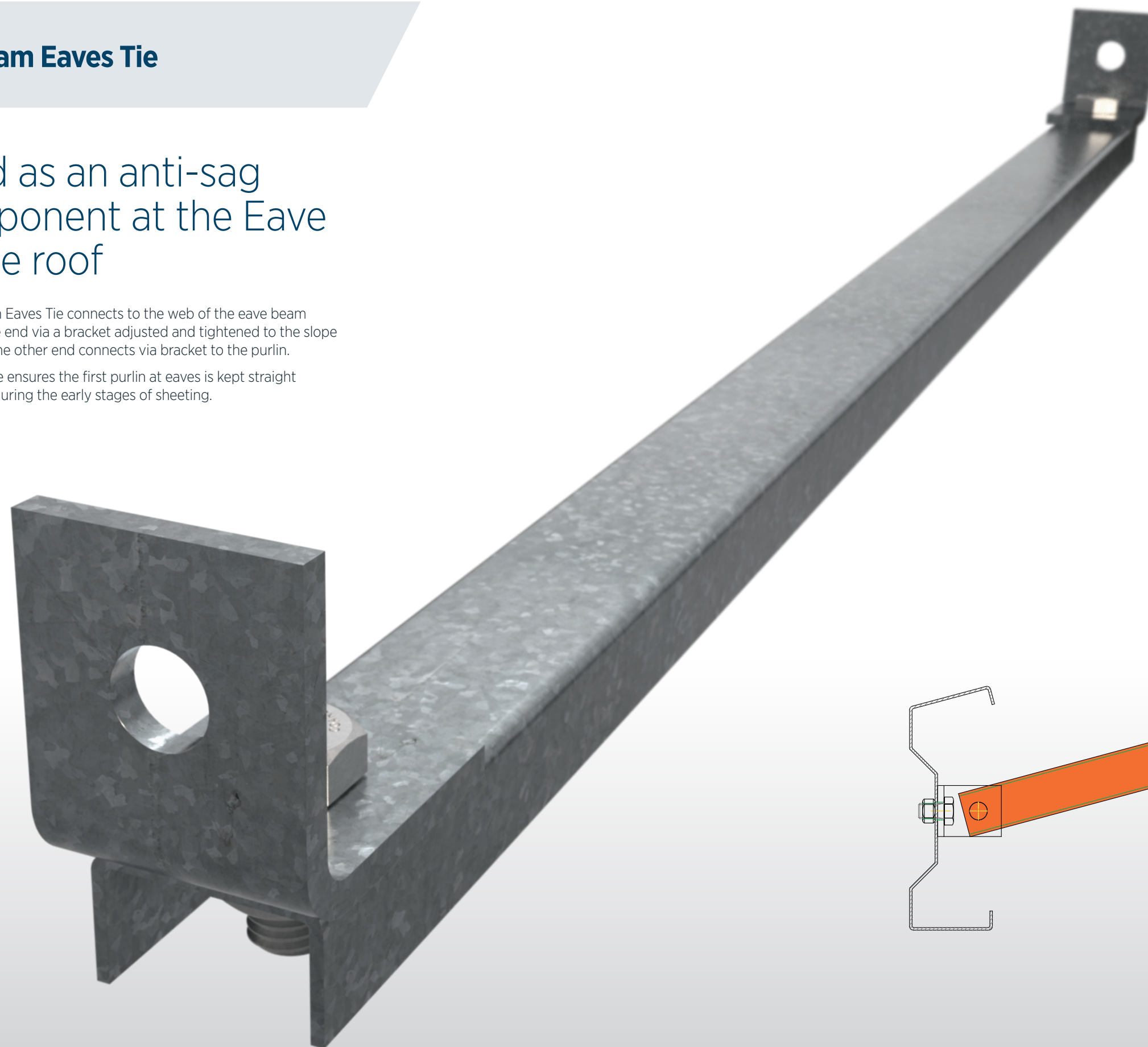


Viribeam Eaves Tie

Used as an anti-sag component at the Eave of the roof

The Viribeam Eaves Tie connects to the web of the eave beam purlin on one end via a bracket adjusted and tightened to the slope of the roof, the other end connects via bracket to the purlin.

The Eaves Tie ensures the first purlin at eaves is kept straight particularly during the early stages of sheeting.



Viribeam Standard S450 Galv Purlin and Rail

Section Designation	Gauge	Mass	Gross Properties						
Standard	tnom mm	M kg/m	A mm ²	I _{yy} cm ⁴	I _{zz} cm ⁴	I _y mm	I _z mm	W _{yy} mm ³	W _{zz} mm ³
S145065150	1.5	3.5	452.7	146.4	20.3	56.9	21.2	20348.2	5004.9
S145065180	1.8	4.2	543.3	175.0	24.0	56.8	21.0	24370.1	5962.3
S145065200	2.0	4.6	603.2	193.9	26.5	56.7	20.9	27021.6	6587.4
S145065250	2.5	5.7	751.6	240.1	32.3	56.5	20.7	33546.4	8104.8
S175065150	1.5	3.8	496.5	227.8	20.3	67.7	20.2	26202.0	5004.6
S175065180	1.8	4.6	596.2	272.7	24.1	67.6	20.1	34396.5	5953.0
S175065200	2.0	5.1	662.1	302.2	26.6	67.6	20.0	34823.8	6589.1
S175065250	2.5	6.3	825.5	374.7	32.4	67.4	19.8	43268.2	8109.9
S205065150	1.5	4.2	540.4	331.7	20.4	78.4	19.4	32530.8	5004.1
S205065180	1.8	5.0	649.0	397.2	24.2	78.2	19.3	38994.2	5963.4
S205065200	2.0	5.5	721.0	440.4	26.7	78.2	19.2	43261.6	6590.3
S205065250	2.5	6.9	899.4	546.6	32.6	78.0	19.0	53785.0	8113.9
S235065150	1.5	4.5	584.2	460.0	20.5	88.7	18.7	39321.8	5003.6
S235065180	1.8	5.4	701.9	551.1	24.3	88.6	18.6	47148.4	5963.7
S235065200	2.0	6.0	779.9	611.1	26.7	88.5	18.5	52318.5	6591.3
S235065250	2.5	7.5	973.2	759.0	32.7	88.3	18.3	65077.3	8117.2
S265065150	1.5	4.8	628.0	614.7	20.5	98.9	18.1	46567.5	5003.2
S265065180	1.8	5.8	754.7	736.6	24.3	98.8	18.0	55850.4	5963.9
S265065200	2.0	6.5	838.7	817.1	26.8	98.7	17.9	61985.1	6592.0
S265065250	2.5	8.0	1047.1	1015.5	32.7	98.5	17.7	77133.8	8120.1
S300065150	1.5	5.2	679.2	831.1	20.6	110.6	17.4	55589.8	5002.6
S300065180	1.8	6.3	816.4	996.3	24.4	110.5	17.3	66688.0	5964.0
S300065200	2.0	7.0	907.4	1105.5	26.9	110.4	17.2	74025.7	6592.7
S300065250	2.5	8.7	1133.3	1374.7	32.8	110.1	17.0	92156.3	8122.9

Viribeam Purlin Load Span 4.5m

Span (m)	Section	# of Anti Sag Bars	Weight (kg/m)	Ultimate total UDL kN		load (kN) to reach deflection limit (L/180)
				Gravity	Suction	
4.50	S145065150	0	3.47	15.81	12.98	14.21
	S145065180	0	4.15	17.71	17.71	17.33
	S145065200	0	4.61	23.55	19.36	19.43
	S145065250	0	5.72	28.64	24.72	24.47
	S175065150	0	3.81	18.52	15.16	21.60
	S175065180	0	4.57	22.15	22.15	26.58
	S175065200	0	5.07	28.25	23.08	29.89
	S175065250	0	6.30	34.30	29.60	37.85
	S205065150	0	4.16	20.83	17.62	30.64
	S205065180	0	4.98	26.30	23.20	37.78
	S205065200	0	5.53	32.05	27.00	-
	S205065250	0	6.88	39.10	35.20	-
	S35065150	1	4.50	26.40	26.40	-
	S235065180	1	5.40	43.70	37.20	-
	S235065200	1	5.99	45.98	43.50	-
	S235065250	1	7.46	68.90	58.20	-

Viribeam Purlin Load Span 5.0m

Span (m)	Section	# of Anti Sag Bars	Weight (kg/m)	Ultimate total UDL kN		load (kN) to reach deflection limit (L/180)
				Gravity	Suction	
5.00	S145065150	0	3.47	13.20	12.50	11.60
	S145065180	0	4.15	16.35	16.35	14.12
	S145065200	0	4.61	19.30	19.00	15.80
	S145065250	0	5.72	23.26	23.00	19.84
	S175065150	0	3.81	16.03	15.35	17.60
	S175065180	0	4.57	20.15	20.15	21.66
	S175065200	0	5.07	24.05	23.70	24.33
	S175065250	0	6.30	29.10	29.10	30.75
	S205065150	0	4.16	18.70	15.75	25.16
	S205065180	0	4.98	23.52	20.85	30.90
	S205065200	0	5.53	28.30	24.30	34.90
	S205065250	0	6.88	34.67	31.80	44.40
	S235065150	1	4.50	30.18	24.72	34.30
	S235065180	1	5.40	38.00	31.30	41.98
	S235065200	1	5.99	45.50	36.62	47.40
	S235065250	1	7.46	59.13	48.92	60.73

Viribeam Purlin Load Span 6.0m

Span (m)	Section	# of Anti Sag Bars	Weight (kg/m)	Ultimate total UDL kN		load (kN) to reach deflection limit (L/180)
				Gravity	Suction	
6.00	S145065150	0	3.47	12.47	10.43	8.15
	S145065180	0	4.15	14.40	14.34	9.90
	S145065200	0	4.61	17.92	15.78	11.07
	S145065250	0	5.72	22.22	20.39	13.88
	S175065150	0	3.81	14.34	11.82	12.47
	S175065180	0	4.57	17.30	16.53	15.23
	S175065200	0	5.07	20.96	18.31	17.08
	S175065250	0	6.30	25.75	23.74	21.52
	S205065150	0	4.16	15.78	12.95	17.80
	S205065180	0	4.98	19.76	17.29	21.81
	S205065200	0	5.53	23.16	20.25	24.52
	S205065250	0	6.88	28.60	26.60	31.12
	S235065150	1	4.50	23.65	18.03	24.35
	S235065180	1	5.40	29.41	22.95	29.68
	S235065200	1	5.99	35.42	26.89	33.39
	S235065250	1	7.46	46.10	36.00	42.60
	S265065150	1	4.84	25.64	19.50	31.75
	S265065180	1	5.81	33.30	25.80	39.20
	S265065200	1	6.45	38.70	29.25	43.80
	S265065250	1	8.04	50.40	39.35	56.10

Viribeam Purlin Load Span 7.0m

Span (m)	Section	# of Anti Sag Bars	Weight (kg/m)	Ultimate total UDL kN		load (kN) to reach deflection limit (L/180)
				Gravity	Suction	
7.00	S175065150	1	3.81	13.91	11.00	9.25
	S175065180	1	4.57	17.56	15.05	11.28
	S175065200	1	5.07	20.93	16.92	12.62
	S175065250	1	6.30	26.86	22.10	15.85
	S205065150	1	4.16	16.16	12.46	13.25
	S205065180	1	4.98	20.80	16.50	16.20
	S205065200	1	5.53	24.50	19.30	18.15
	S205065250	1	6.88	31.76	25.60	23.00
	S235065150	1	4.50	18.80	13.86	18.15
	S235065180	1	5.40	23.30	17.78	22.10
	S235065200	1	5.99	27.80	20.95	24.80
	S235065250	1	7.46	36.25	27.88	31.50
	S265065150	1	4.84	20.20	14.60	23.78
	S265065180	1	5.81	26.12	19.46	29.20
	S265065200	1	6.45	30.10	22.15	32.62
	S65065250	1	8/04	39.20	29.80	41.68
	S300065150	1	5.24	22.15	15.66	31.30
	S300065180	1	6.30	28.70	20.83	-
	S300065200	1	6.99	34.50	24.80	-
	S300065250	1	8.71	43.50	32.30	-

Viribeam Purlin Load Span 8.0m

Span (m)	Section	# of Anti Sag Bars	Weight (kg/m)	Ultimate total UDL kN		load (kN) to reach deflection limit (L/180)
				Gravity	Suction	
8.00	S175065150	2	3.81	13.07	10.99	5.61
	S175065180	2	4.57	16.80	14.73	8.70
	S175065200	2	5.07	19.78	16.80	9.72
	S175065250	2	6.30	25.75	22.05	12.20
	S205065150	2	4.16	15.45	12.90	10.25
	S205065180	2	4.98	20.04	16.92	12.50
	S205065200	2	5.53	23.50	19.78	14.00
	S205065250	2	6.88	30.05	26.30	17.68
	S235065150	2	4.50	18.20	14.95	14.05
	S235065180	2	5.40	22.77	19.03	17.08
	S235065200	2	5.99	27.00	22.30	19.15
	S235065250	2	7.46	35.70	29.90	24.30
	S265065150	2	4.84	19.98	16.40	18.45
	S265065180	2	5.81	26.05	21.61	22.62
	S265065200	2	6.45	29.80	24.51	25.25
	S265065250	2	8.04	39.60	33.10	32.10
	S300065150	2	5.24	22.55	18.20	22.00
	S300065180	2	6.30	29.10	24.05	30.00
	S300065200	2	6.99	34.98	28.36	33.80
	S300065250	2	8.71	45.30	37.00	42.80

Viribeam Purlin Load Span 9.0m

Span (m)	Section	# of Anti Sag Bars	Weight (kg/m)	Ultimate total UDL kN		load (kN) to reach deflection limit (L/180)
				Gravity	Suction	
9.00	S205065150	2	4.16	12.40	10.68	8.17
	S205065180	2	4.98	16.15	14.08	9.95
	S205065200	2	5.53	18.71	16.45	11.13
	S205065250	2	6.88	24.78	21.89	14.02
	S235065150	2	4.50	14.35	12.15	11.20
	S235065180	2	5.40	18.03	15.55	13.60
	S235065200	2	5.99	21.05	18.25	15.25
	S235065250	2	7.46	28.05	24.40	19.31
	S265065150	2	4.84	15.50	13.12	14.74
	S265065180	2	5.81	20.26	17.36	18.05
	S265065200	2	6.45	22.80	19.71	20.10
	S265065250	2	8.04	30.60	26.60	25.55
	S300065150	2	5.24	18.30	14.38	19.50
	S300065180	2	6.30	23.59	19.05	23.93
	S300065200	2	6.99	28.30	22.55	26.80
	S300065250	2	8.71	36.50	29.40	34.00

Viribeam Purlin Load Span 10.0m

Span (m)	Section	# of Anti Sag Bars	Weight (kg/m)	Ultimate total UDL kN		load (kN) to reach deflection limit (L/180)
				Gravity	Suction	
10.00	S235065150	3	4.50	12.40	12.40	9.15
	S235065180	3	5.40	15.65	15.65	11.10
	S235065250	3	7.46	24.40	24.40	15.60
	S265065150	3	4.84	13.50	13.50	12.06
	S265065180	3	5.81	17.70	17.70	14.70
	S265065200	3	6.45	19.98	19.98	16.40
	S265065250	3	6.45	19.98	19.98	16.40
	S265065250	2	8.04	26.88	26.88	20.78
	S300065150	3	5.24	17.10	15.50	16.00
	S300065180	3	6.30	22.23	20.50	19.58
	S300065200	3	6.99	26.50	24.20	22.00
	S300065250	3	8.71	34.40	31.60	27.70

Viribeam Coated Purlin S390 Section Properties

Section Designation	Gauge	Mass	Gross Properties						
Standard	t _{nom} mm	M kg/m	A mm ²	I _{yy} cm ⁴	I _{zz} cm ⁴	I _y mm	I _z mm	W _{yy} mm ³	W _{zz} mm ³
S145065150-S390	1.5	3.62	452.7	146.4	20.3	56.9	21.2	20348.2	5004.9
S145065200-S390	2	4.82	603.2	193.9	26.5	56.7	20.0	27021.6	6587.4
S175065150-S390	1.5	3.96	496.5	227.8	20.3	67.7	20.2	26202.0	5004.6
S175065200-S390	2	5.28	662.1	302.2	26.6	67.6	20.0	34823.8	6589.1
S205065150-S390	1.5	4.31	540.4	331.7	20.4	78.4	19.4	32530.8	5004.1
S205065200-S390	2	5.75	721.0	440.4	26.7	78.2	19.2	43261.6	6590.3

Viribeam Coated Purlin S390 Section Properties

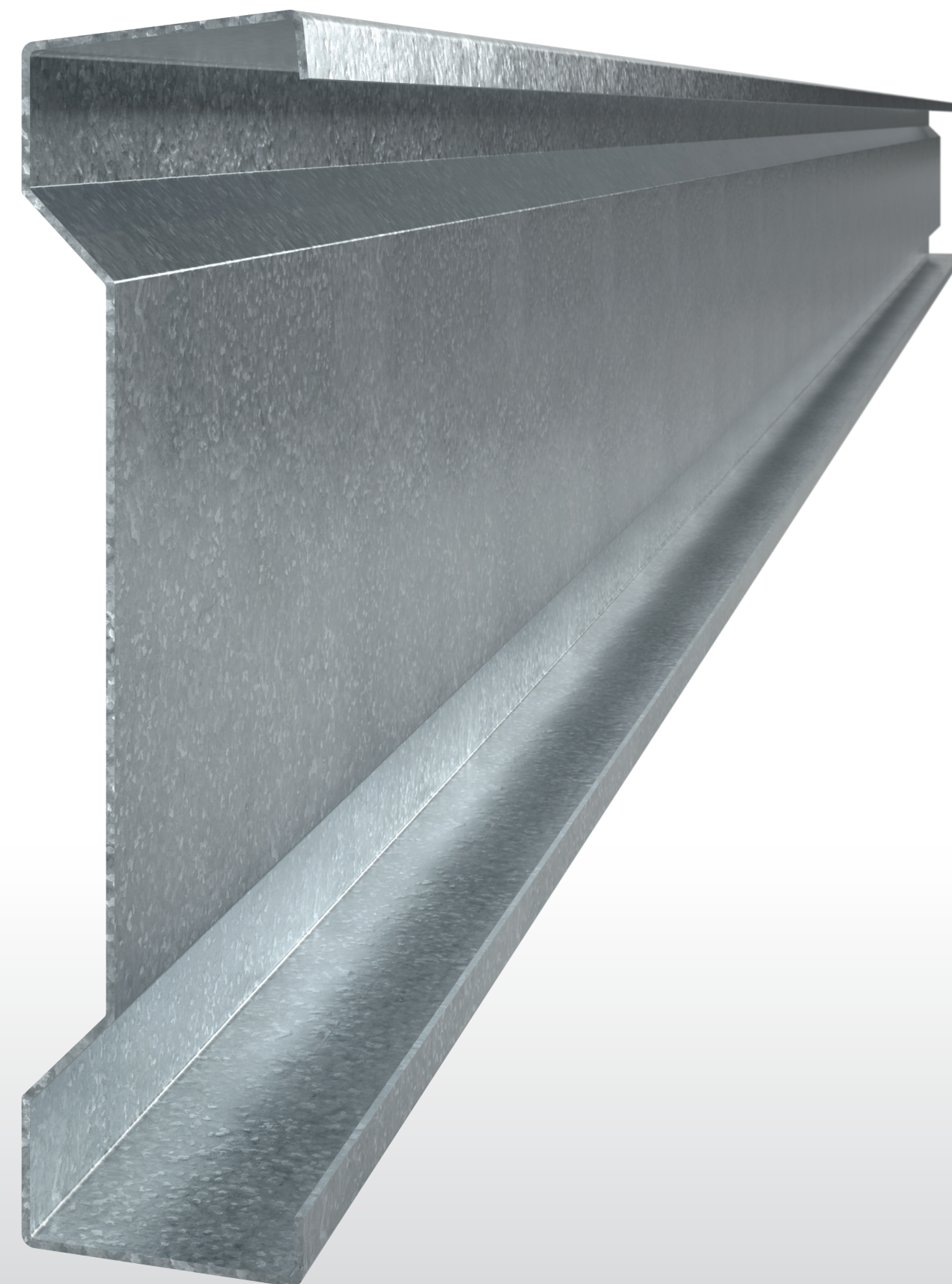
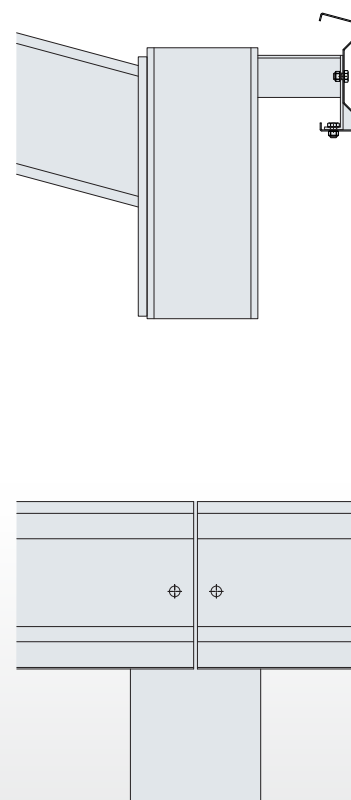
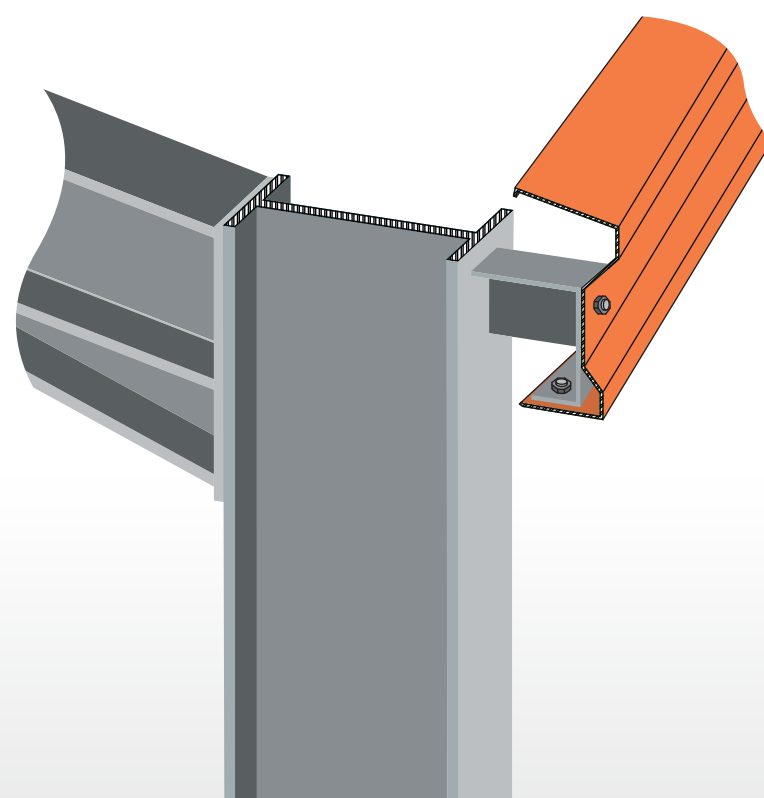
Span (m)	Section	# of Anti Sag Bars	Weight (kg/m)	Ultimate total UDL kN		load (kN) to reach deflection limit (L/180)
				Gravity	Suction	
4.50	S145065150-S390	0	3.47	13.05	14.30	14.21
	S145065200-S390	0	4.61	19.25	21.50	19.43
	S175065150-S390	0	3.81	16.20	16.90	21.60
	S175065200-S390	0	5.07	24.50	25.40	29.89
	S205065150-S390	0	4.16	19.30	17.10	30.64
	S205065200-S390	0	5.53	29.50	25.70	43.00
5.00	S145065150-S390	0	3.47	12.10	12.80	11.60
	S145065200-S390	0	4.61	17.60	19.30	15.80
	S175065150-S390	0	3.81	14.80	14.90	17.60
	S175065150-S390	0	5.07	22.20	22.60	24.33
	S205065150-S390	0	4.16	17.50	15.30	25.16
	S205065200-S390	0	5.53	26.30	23.50	34.90
6.00	S145065150-S390	0	3.47	10.80	10.50	8.15
	S145065150-S390	0	4.61	15.30	15.80	11.07
	S175065150-S390	0	3.81	12.80	12.20	12.47
	S175065200-S390	0	5.07	18.75	18.55	17.08
	S205065150-S390	0	4.16	14.80	12.80	17.08
	S205065200-S390	0	5.53	21.85	19.70	24.60
7.00	S175065150-S390	1	3.81	12.95	11.10	9.25
	S175065200-S390	1	5.07	19.35	16.90	12.65
	S205065150-S390	1	4.16	15.35	12.25	13.25
	S205065200-S390	1	5.53	23.20	18.75	18.25
8.0	S175065150-S390	2	3.81	12.30	10.80	7.15
	S175065200-S390	2	5.07	18.40	16.25	9.72
	S205065150-S390	2	4.16	14.65	12.45	10.25
	S205065200-S390	2	5.53	22.20	18.90	14.10
9.0	S205065150-S390	2	4.16	11.90	10.40	8.17
	S205065200-S390	2	5.53	17.70	15.90	11.13

Viribeam Eaves Beam

Viriform offers a range of Eaves Beam that are fully compatible with our Viribeam purlins and rails to suit a variety of conditions and roof pitches.

The Eaves beam is designed as a single span member combining the function of the purlin and the cladding rail and offering the facility of a station head or gutter support.

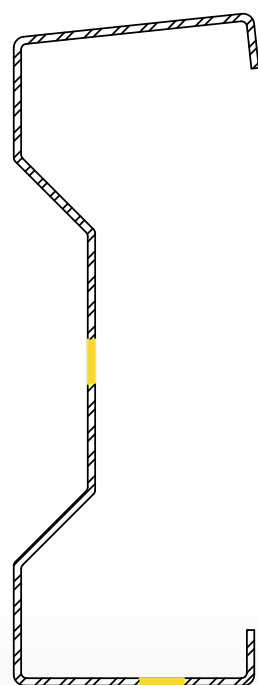
Eaves Beam Bracing Requirement		
	Span up to 6m	Span over 6m
175	1 No Eaves Tie at Mid-Point	2 No Eaves Tie at 1/3 points
205		
265		



Viribeam Eaves Beam Section Properties

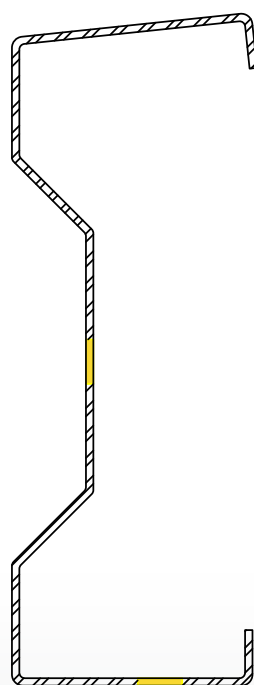
Important notes

Section properties have been calculated in accordance with Eurocode 3, BS EN 1993-1 3:2006. The top flange of the purlin must have adequate restraint provided by robust steel sheeting (or similar) fixed directly to the top flange.



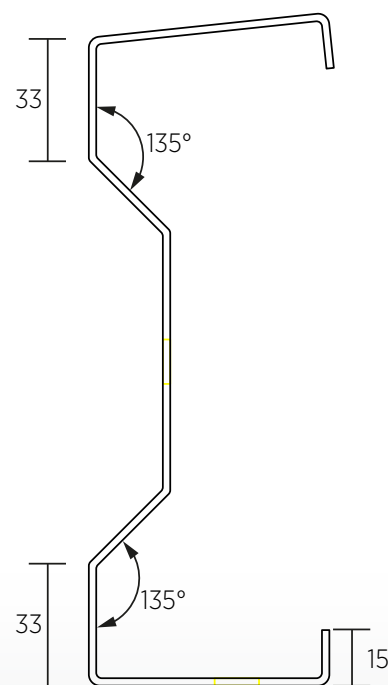
Available as per our Galv Specification

Section Size 175, 205 and 265 in 1.8, 2.0 and 2.5 gauge. to suit 6°, 12° and 15° roof pitch



Available as per our Coated Specification

Section Size 175 and 205 in 2.0 gauge. to suit 6°, 12° and 15° roof pitch



Eaves Beam S450 Galv Load Span Tables

Span (m)	Section	# of ties	Weight (kg/m)	Ultimate total UDL kN		load (kN) to reach deflection limit (L/180)
				Gravity	Suction	
4.50	E175065180	1	4.57	20.20	15.35	26.56
6.00		1	4.57	15.00	10.10	15.20
7.00		2	4.57	12.90	9.80	8.50
8.00		2	4.57	11.10	8.00	6.80
9.00		2	4.57	10.10	6.80	5.45
4.50	E175065200	1	5.07	23.45	17.75	29.80
6.00		1	5.07	17.58	11.72	17.10
7.00		2	5.07	15.07	11.40	9.99
8.00		2	5.07	13.18	9.36	7.68
9.00		2	5.07	11.70	7.91	6.09
4.50	E175065250	1	6.30	31.00	23.30	37.78
6.00		1	6.30	23.28	15.40	21.50
7.00		2	6.30	19.92	15.00	12.50
8.00		2	6.30	17.45	12.30	9.60
9.00		2	6.30	15.50	10.39	7.60
4.50	E205065180	1	4.98	24.40	17.50	37.88
6.00		1	4.98	18.30	11.15	21.80
7.00		2	4.98	15.70	11.37	12.86
8.00		2	4.98	13.60	9.20	9.92
9.00		2	4.98	12.20	7.63	7.88
4.50	E205065200	1	5.53	28.40	20.28	42.50
6.00		1	5.53	21.30	13.00	24.50
7.00		2	5.53	18.25	13.21	14.41
8.00		2	5.53	15.95	10.70	11.08
9.00		2	5.53	14.20	8.89	8.80
4.50	E205065250	1	6.88	38.00	26.90	54.50
6.00		1	6.88	28.50	17.25	31.05
7.00		2	6.88	24.45	17.65	18.15
8.00		2	6.88	21.40	14.25	13.95
9.00		2	6.88	19.00	11.85	11.05

Eaves Beam S450 Galv

Load Span Tables

Span (m)	Section	# of ties	Weight (kg/m)	Ultimate total UDL kN		load (kN) to reach deflection limit (L/180)
				Gravity	Suction	
4.50	E265065180	1	5.81	34.00	23.39	65.00
6.00		1	5.81	25.50	13.70	39.20
7.00		2	5.81	21.84	14.94	23.35
8.00		2	5.81	19.10	11.60	18.00
9.00		2	5.81	17.00	9.34	14.35
4.50	E265065200	1	6.45	38.31	26.30	75.00
6.00		1	6.45	28.70	15.55	40.00
7.00		2	6.45	24.60	16.85	26.05
8.00		2	6.45	21.55	13.19	20.10
9.00		2	6.45	19.10	10.55	16.00
4.50	E265065250	1	8.04	51.90	35.40	90.00
6.00		1	8.04	38.90	21.00	56.10
7.00		2	8.04	33.40	22.78	33.05
8.00		2	8.04	29.20	17.80	25.45
9.00		2	8.04	25.95	14.25	20.20

Eaves Beam Coated Purlin S390

Load Span Tables

Span (m)	Section	# of ties	Weight (kg/m)	Ultimate total UDL kN		load (kN) to reach deflection limit (L/180)
				Gravity	Suction	
4.50	E175065200-S390	1	5.07	34.00	23.39	30.05
6.00		1	5.07	25.50	13.70	17.15
7.00		2	5.07	21.84	14.94	10.01
8.00		2	5.07	19.10	11.60	7.70
9.00		2	5.07	17.00	9.34	6.10
4.50	E205065200-S390	1	5.53	25.75	19.13	43.02
6.00		1	5.53	19.31	12.58	24.65
7.00		2	5.53	16.55	12.56	14.47
8.00		2	5.53	14.48	10.28	11.13
9.00		2	5.53	12.88	8.63	8.83

Technical Support

At Viriform, we are committed to providing outstanding customer care and technical support. Formerly under the brand name of Tegral, we have decades of knowledge and expertise in structural engineering solutions. Working alongside Tata Steel Construction, one of Europe's leading steel construction producers, we offer the widest range of highest quality products, services and construction innovations.



Design Service:

Our Technical support offer a design support service to all professionals. Contact our Technical Support team for more information.



For Technical Support:

Phone: +353 (0) 59 86 31316
Email: support@viriform.com



For Sales and Customer Service please contact us at:

Phone: +353 (0) 59 86 31316
Email: info@viriform.com

Sustainability and Standards



Sustainability

Viriform is the commercial and industrial sector of Etex Ireland which are part of the global building materials group, Etex. Both Etex Ireland, and Etex as a worldwide entity, have been leading the way in terms of light weight construction and environmental impact of construction for decades.

The company has fostered a strong environmental awareness among its workforce and invests a range of resources into achieving tangible environmental progress through its ongoing environmental improvement programme, as part of the ISO 14001 standard. Etex is also fully committed to the maintenance of a healthy and safe environment for its employees, for its customers and the local communities in which it operates through its ongoing certification to the ISO 45001 Health & Safety Management System.

Annual audits provide third-party assessment and verification of our efforts to manage our environment and social impacts.

Declarations of Performance are all available on www.viriform.com

We work alongside our customers to design more sustainable products that contribute to solutions which offer a number of key advantages in terms of sustainability. Our products are fully recyclable and are produced and built to last with consideration given to the components end of life options and the circular economy.



Standards



Your choice of products have a guaranteed level of quality as all of our products covered by an EN Standard carry an appropriate CE Mark. We operate to ISO 9001 (Quality), ISO 45001 (Health & Safety) and ISO 14001 (Environment). Factory produced with the backing of a robust quality management and environmental management standards, we offer full traceability of all components.



Based in Athy. Co. Kildare, we employ over 150 people and are proud to be founding Guaranteed Irish members. So when you choose Viriform, you have peace of mind that you are choosing high performance, top quality products as well as supporting local Irish jobs.

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VIRIFORM[®]

www.viriform.com

Etex Ireland Limited

Kilkenny Road, Athy, Co. Kildare, R14 VN84

Phone: +353 (0) 59 86 31316

Email: info@viriform.com

