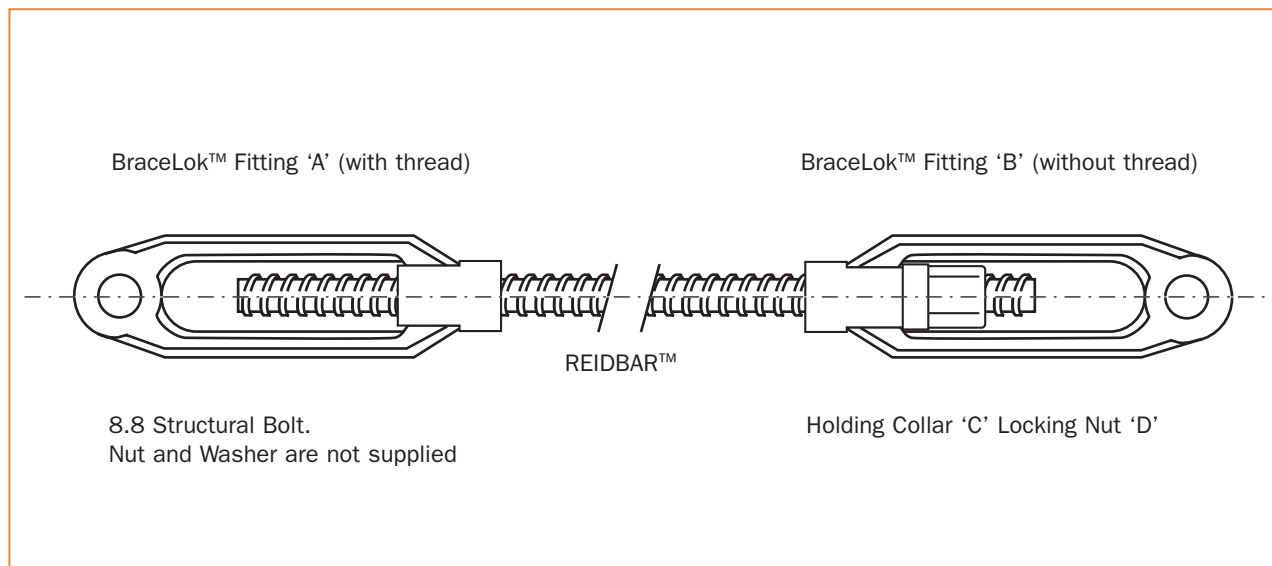
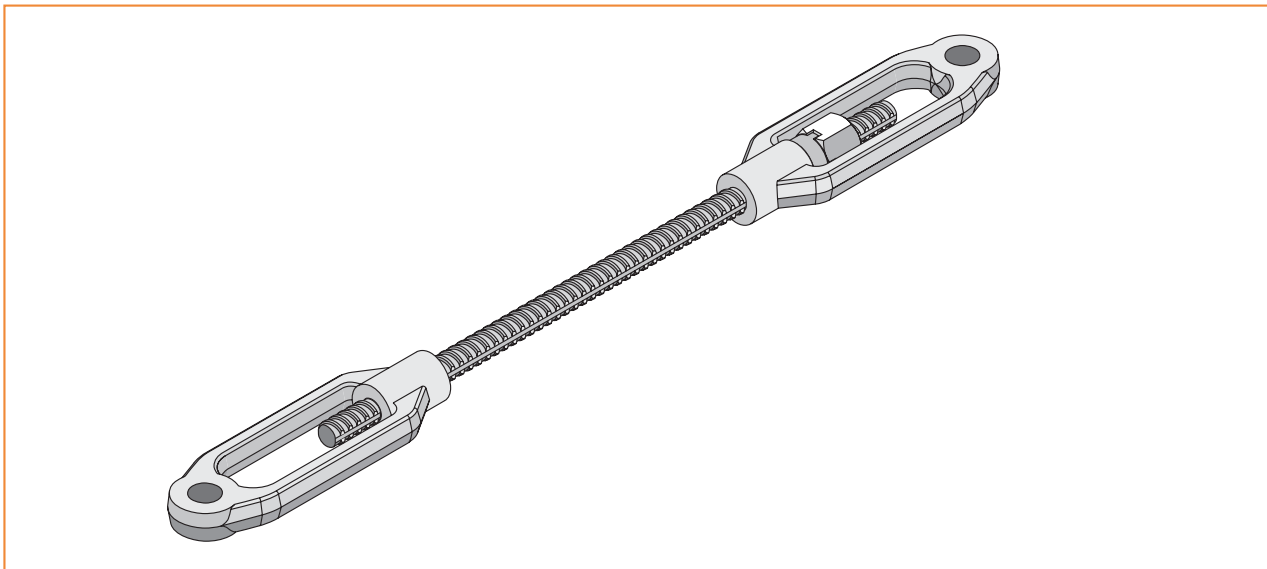


BRACELOKTM BRACING SYSTEM

The complete bracing system for all buildings. The BraceLokTM bracing system provides a cost-effective method of manufacturing and assembling threaded rod bracing for commercial and industrial buildings. The method is cost-effective in terms of both factory assembly and erection on site and ensures a high degree of technical credibility for specifiers.

REIDBARTM HIGH STRENGTH THREADED BAR

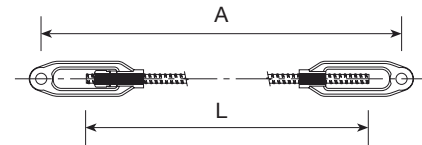
- Ease of installation
- Cost savings in both labour and materials
- No welding, no threading – just cut bar to length and it's ready to assemble.
- Adjustable on site



TECHNICAL DETAILS

The BraceLok™ bracing system has been designed, tested and certified to provide reliable and cost-effective bracing for steel portal framed buildings. BraceLok™ end connections are designed to exceed ultimate capacity of the GRADE 500 REIDBAR™. The capacity tables are for single shear cleats.

Size	Minimum Yield Strength (kN)	Minimum Ultimate Strength (kN)	Bolt Details Grade 8.8/S Bolt, N & W	Cut length (L) = Overall length of mechanism (A) – (B) e.g. if A = 8105 – B (130) then L=7975 B
RB12	56.5	61.0	1-M20 8.8/S	130
RBA16	100.6	108.5	1-M20 8.8/S	170
RB20	157.0	169.6	1-M24 8.8/S	200
RB25	245.5	265.1	1-M30 8.8/S	230



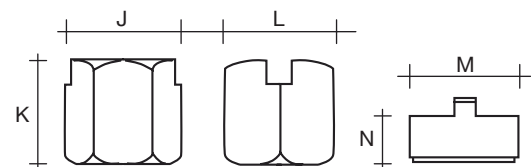
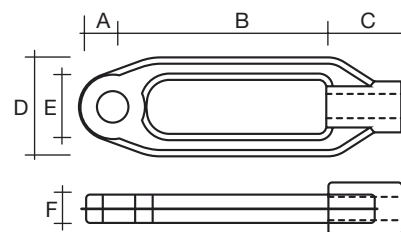
NOTE: Cleats to NZS 3404 Pt 1. Bolts fitted with threads included in the shear plan. For bar ultimate use double cleats. Bolts are not supplied.

BRACELOK™ FITTINGS

Size	A	B	C	D	E	F
RB12	20	130	50	60	36	16
RBA16	22	142	50	66	36	20
RB20	30	174	65	87	60	24
RB25	45	212	80	113	92	30

Size	J	K	L	M	N
RB12	29	40	25	30	17
RBA16	35	40	30	30	17
RB20	40	45	35	35	20
RB25	52	55	45	43	25

All dimensions are nominal and subject to change without prior notice by the manufacturer.



SUBSTITUTION TABLES

BraceLok™ Size	Bracing Rods 4.6S or GR300 Size
RB12	M16
RBA16	M20
RB20	M25
RB25	M30

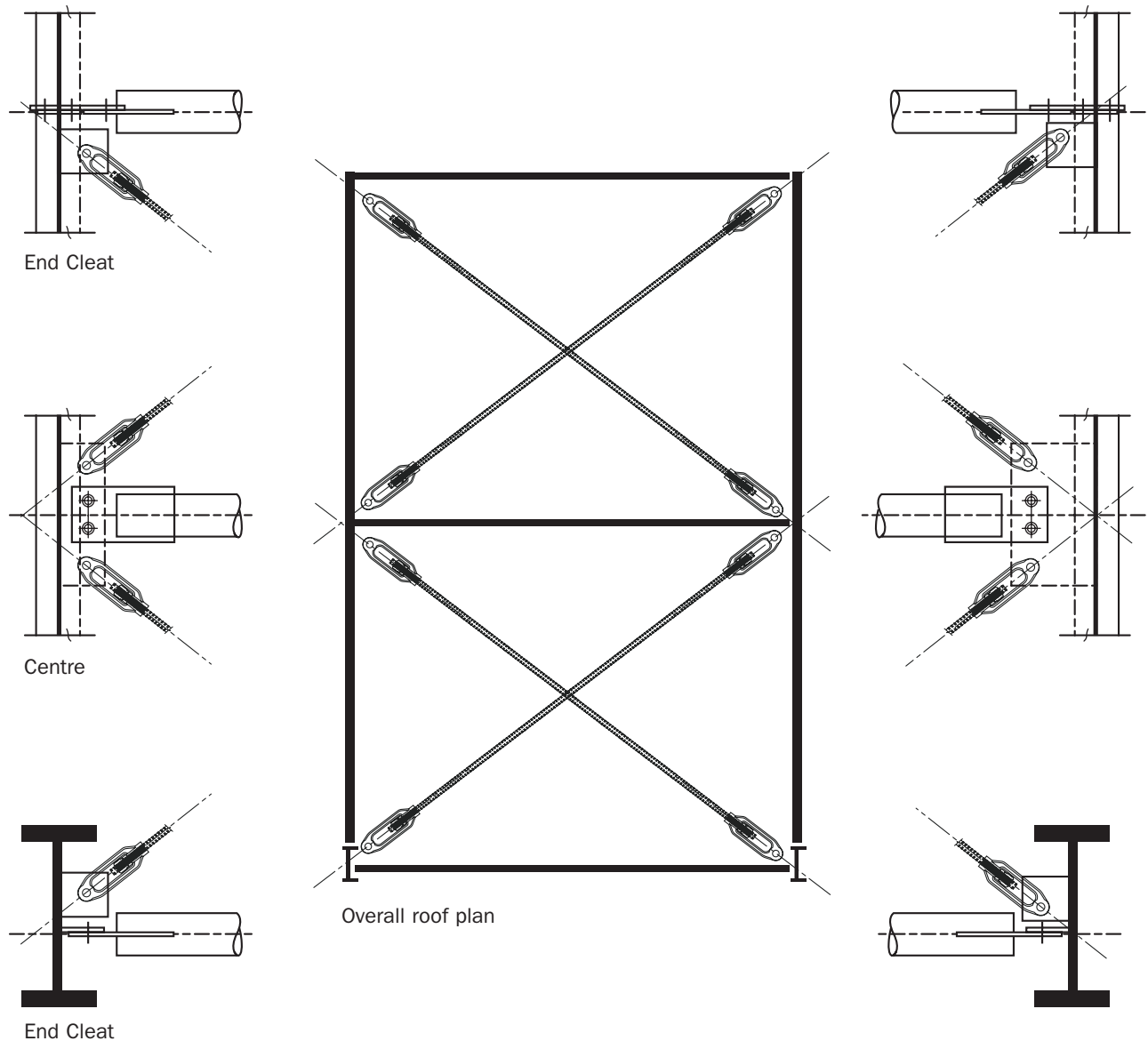
BRACELOK™ FITTING ORDERING CODE

Code	Description
RB12BASET	For use with RB12
RBA16BASET	For use with RB16
RB20BASET	For use with RB20
RB25BASET	For use with RB25
Galvanised	
RB12BAGSET	For use with RB12G
RB16ABAGSET	For use with RB16G
RB20BAGSET	For use with RB20G
RB25BAGSET	For use with RB25G

APPLICATION DETAILS

Versatile and easy to use, BraceLokTM offers a range of standard end connection details to suit most applications. The patented BraceLokTM system is a practical and cost-effective alternative to fabricated bracing rods and angles. With BraceLokTM the only fabrication required to produce a completed bracing member is to cut the ReidbarTM to length. The product is then simply assembled on site, using the BraceLokTM.

BRACING APPLICATIONS – IN PLANE ROOF BRACE



SITE ASSEMBLY PROCEDURES

Step 1

Select a clear area to suit the full length of the bracing being assembled. Screw on the BraceLok™ Fitting 'A' (with thread) at one end of the bar. Position the end of the bar in the middle of the fittings adjustment window to allow adjustment of overall bracing length in both directions.

Step 2

Slide on the BraceLok™ Fitting 'B' (without thread) at the other end of the bar. Position the end of the bar in the middle of the window of the fitting.

Step 3

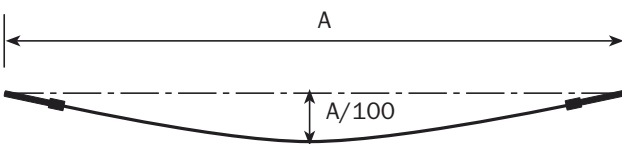
Place the BraceLok™ Holding Collar 'C' inside the window of the BraceLok™ Fitting 'B', align the two flat surfaces inside the collar with the flat sides on the bar, and slide the collar onto the bar.

Step 4

Place the BraceLok™ Locking Nut 'D' inside the window of the BraceLok™ Fitting 'B' and screw it onto the bar.

Step 5

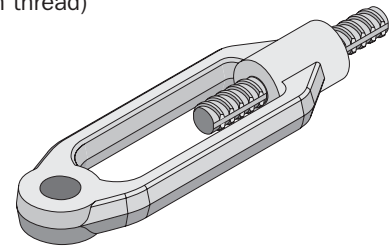
Align the tabs on the BraceLok™ Holding Collar 'C' with the slots in the BraceLok™ Locking Nut 'D' and engage the two components. The assembled bracing unit is now ready for lifting and bolting into place. Turn the bar with a shifting spanner gripping the flat surfaces of the bar to reduce the sag in the overall bracing to less $A/100$ as shown below.



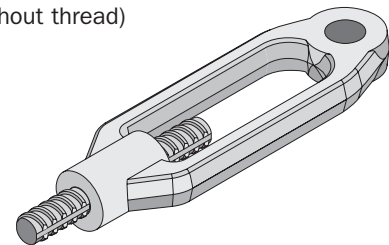
NOTES

1. Ensure any burrs are removed when the bar is cut to allow the bar to run freely through the threaded components.
2. If a coupler is used to join the bar, ensure the bar is always turned clockwise into the coupler during both adjustment of the bracing unit to length. Need to secure coupler in bar with Reid™ ET/AT adhesive or by tack welding as per Reidbar™ manual.
3. The overall length of the bracing unit can be adjusted by altering the position of the holding collar and locking nut onto the bar. Always ensure however that the bar protrudes beyond the locking nut and threaded end of the BraceLok™ fitting.
4. CHECK THAT THE REIDBAR™ IS FULLY ENGAGED IN THE COUPLER AFTER TENSIONING IS COMPLETED.

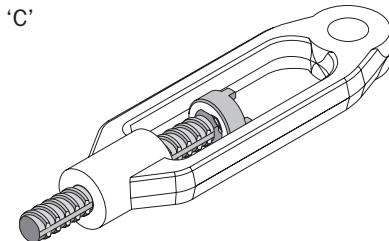
Step 1 BraceLok™ Fitting 'A' (with thread)



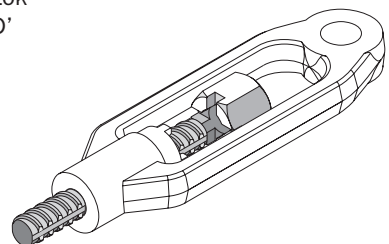
Step 2 BraceLok™ Fitting 'B' (without thread)



Step 3 BraceLok™ Holding Collar 'C'



Step 4 BraceLok™ Locking Nut 'D'



Step 5 Assembled bracing unit

