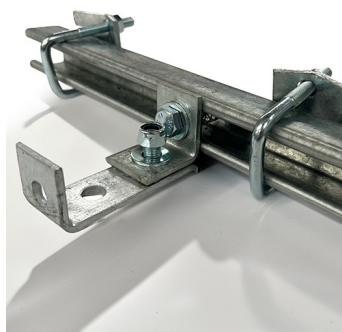




2026



E500 Series Ceiling Suspension Installation Guide



DOORS



METALS



SPARES



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0845 00 66 777



The Seal of Approval

The Bluseal Ceiling Suspension Systems are a cost effective and safe solution to your suspended ceiling requirements, whether big or small we have the product you need.

All our systems are in-house designed, with our tophats manufactured using structural grade S280 galvanised steel to ensure a product you can trust. With all systems being externally strength tested aswell, to ensure maximum quality is achieved.

All our systems have been designed with ease of install in mind, from pre-assembled hanging bracketry to pre-cut PIR to suit your panel thickness, Bluseal Ceiling Suspension is a product you can trust at a competitive price.

From ambient requirements to chiller and freezer applications, Bluseal has the product to match.



How to order:

Call:
0845 00 66 777

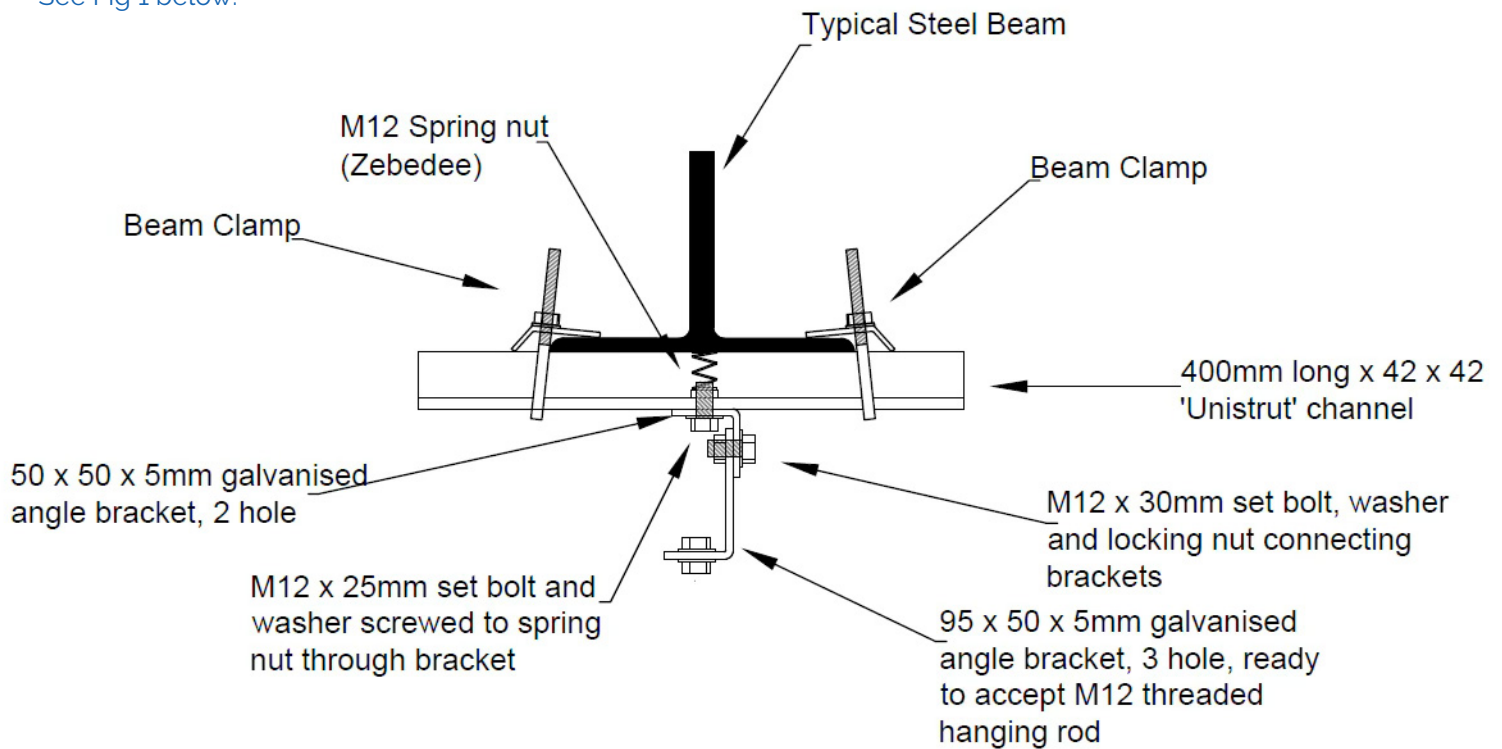
Email:
metals@blusealdoors.com

Or order online at:
spares.blusealdoors.co.uk



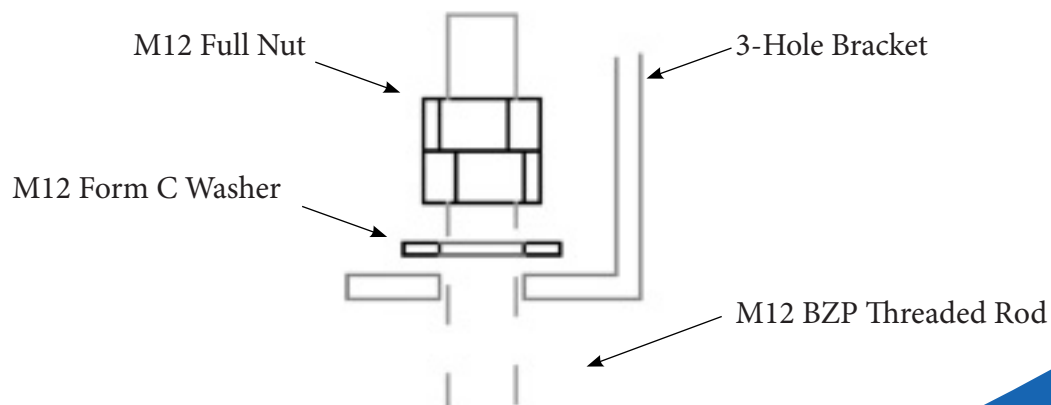
1. Attach the pre-assembled 500a to your beams,
 - a. Beam clamp over steels and tighten M12 nut until secure.
 - i. Do not over tighten as may damage thread and reduce lifespan and expected results

See Fig 1 below:



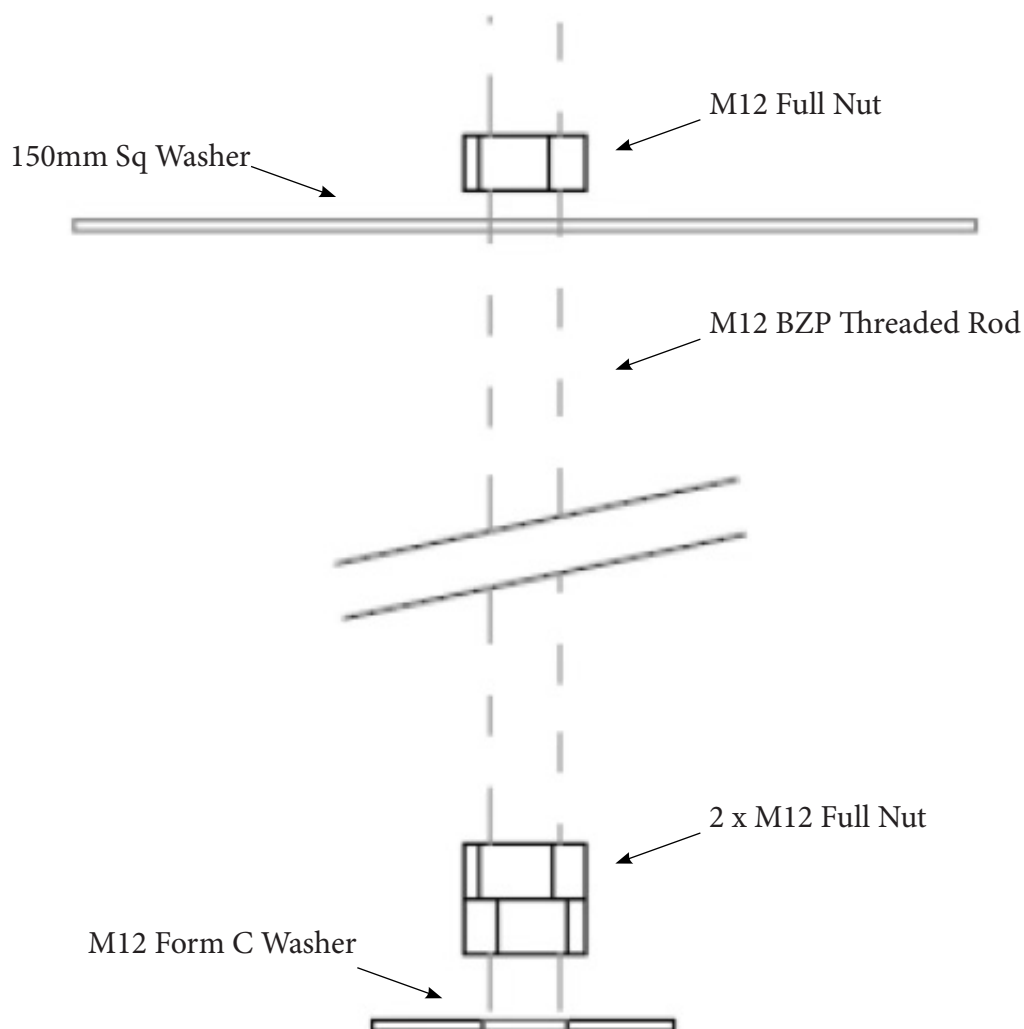
2. You'll need 1 No Length of M12 Threaded Rod and 2 No M12 Full nuts and 1 No M12 Form C washers from the GAFS Fixing Kit
3. Thread the rod through the hole on the bottom of the 3-hole angle on the attached 500a set
 - a. Secure in place with 2 No Nuts and washer to top side of angle

See Fig 2 below:



4. Measure and mark a point 1500mm down your proposed suspension run line, repeat steps 1-4 until you reach the end of the run.
5. Next you will need to thread up the M12 rod the following in written order:
 - a. 1 No M12 Nut
 - b. 1 No 150mm Square Panel Pinning Washer
 - c. 2 No M12 Nut
 - d. 1 No M12 Form C Washer (may be easier to install during step 6)

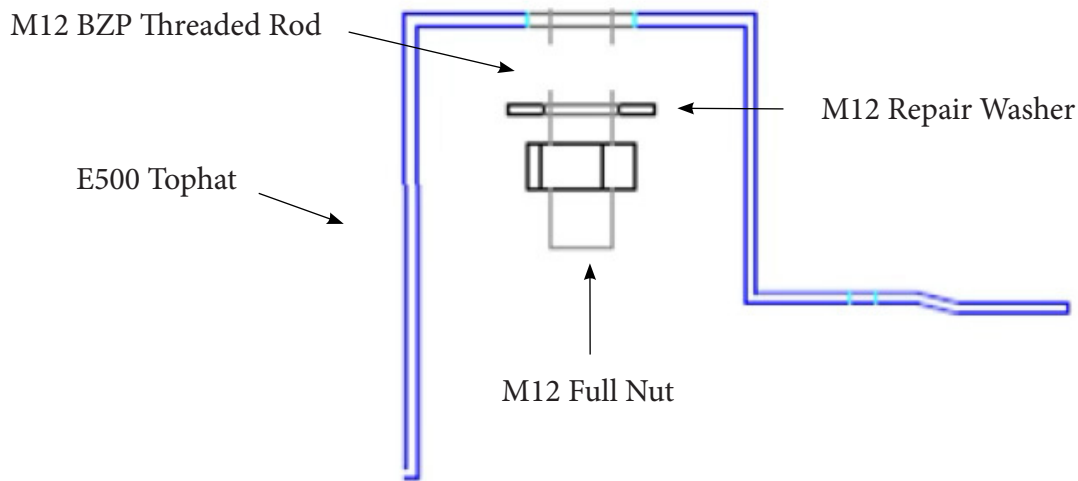
See Fig 3 below:



6. Once the above is in place, with enough spare rod below this to accommodate, thread the E500 tophat over the threaded rod via the 14mm holes pre-drilled in the base of the tophat.
 - a. This step may require 2 people to work simultaneously to ensure stability

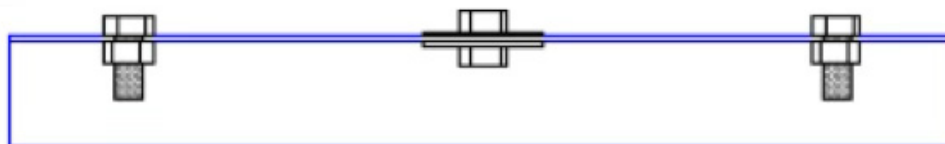


7. Secure the tophat in place via the centre hole first, doing so by threading 1 no M12 x 50mm repair washers and 1 no M12 Full nut over the rod to the underside of the tophat.
 - a. Loosely secure the washer and nut combination both sides of the tophat as per below.
 - b. Do not over tighten to allow for easier adjustment and to level off later on



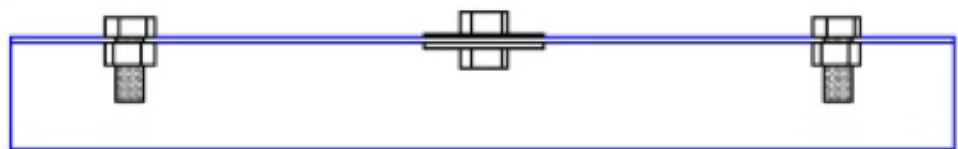
8. At the half hole sections at end of the E500, used for joining tophat to tophat, you will need to use one of our 500 Series joining channels
 - a. Using the centre hole on the joining channel, thread this over the M12 rod and line up the half holes on opposing tophats around the rod but above the joiner.
 - b. With a similar method as above, we will secure both sides of the drop on the tophat and the underside of the joiner
 - c. Here we substitute Form C washers for 2 no Repair washers, one both sides of the tophat and tightened in place by M12 nuts both sides

See fig 5 below:



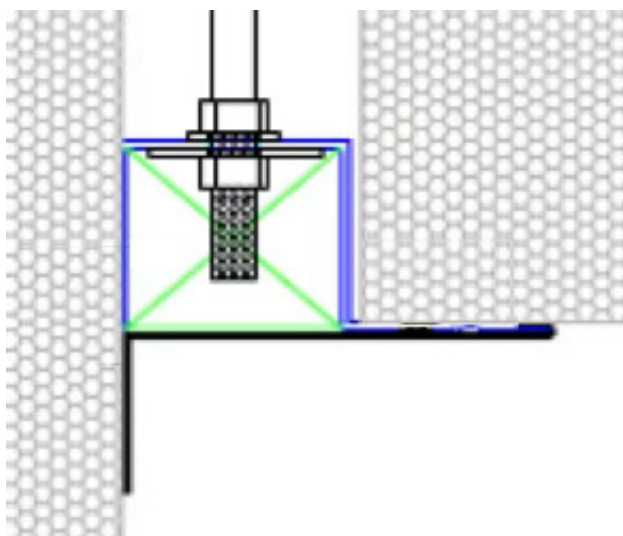
9. Then use the 2 No M12 x 25mm locating set bolt to secure the joining channel to each tophat through the 2 remaining holes.
 - a. Use a M12 Nut to secure the Bolt

See fig 6 below:

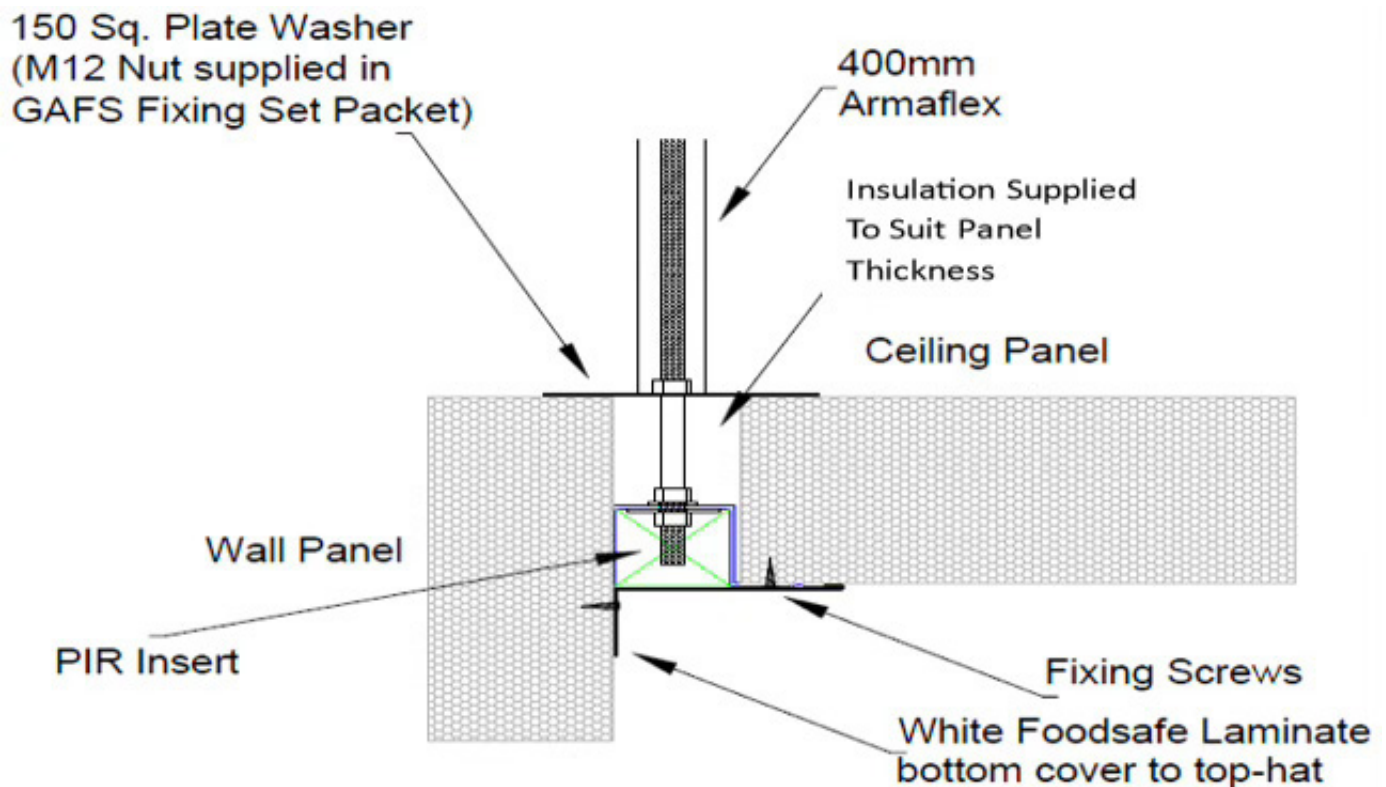


10. Repeat until you have a full run of suspended E500 along the proposed suspension run
 - a. Repeat for your suspension grid as per outlined site drawings
11. Once the panel is ready to be placed you can continue with installation
 - a. Ensure you level out and adjust the tophats to create a flat suspended ceiling
12. Using fixings (not provided standard as part of the complete kit) you can pin the panel to the tophat via the fixing holes pre-drilled at 300 centres
 - a. Plain Pks or rivets can be provided by Bluseal for this
 - b. For extra security, and to minimise movement of panels whilst installing, we recommend tightening the 150mm square washers installed earlier against the panel.

See fig 7 below:



13. From here you can install the finishing products to suit your preference
 - a. Pre-cut PIR or Mineral wool supplied by Bluseal to suit panel thickness can be installed and sealed with foam is required
 - b. Top cappings can be installed to seal the topside joints
 - i. Bluseal can provide plain flat or pre-punched options with rod cutouts and fixing points
 - ii. For the E500 tophat we off a modified internal angle top capping for builds where a flat capping isnt suitable
 - iii. We also recommend installing the flashings with a mastic seal along the edges, we can provide you with a Soudal Butyrub Mastic upon request
 - c. PIR or Mineral Wool to suit the E500 tophat can be installed
 - d. CS120 WFS or 9010 Europoly Bottom capping can be installed by sliding into place over the flanges on the suspension
14. Please ensure all nuts and bolts are tightly secured to minimise any movement due to vibration/strain etc
 - a. Please ensure that it is not overtightened as this can have a negative effect on the structural integrity of the items. If you wish to have more clarity on torque levels for powered tools please contact the office and we can get that information for you.



SUSPENSION SYSTEM FAQ

1. What are your tophats made from?

We make the top hat sections for our ceiling suspension system from high quality S280 construction grade galvanised steel with 2mm thickness. This enables us to offer the same strength as other suppliers but in a thinner, lighter gauge material that is easier to handle on site.

2. What is the 500a/500z Kit and how do I put it together?

a. The Bluseal 500z kit is our beam clamp system where a straight drop from pre-existing steels is required. The Bluseal 500a kit is the swivel assembly beam system for attaching your drops to angled pre-existing steel and is suitable for where a straight drop is required.

b. No assembly of the beam clamps are required! Bluseal will supply you with a pre-assembled kit ready to install. There is no need to spend valuable time on site putting the pieces together, Just take from the box and fix to the steels!

3. Can I have the bottom capping in a different material and why is it 2m long?

a. Of course, we can supply this item in any material you want as long as it is 0.7mm thick and under. We stock pre-made cappings in CS120 WFSL material but hold stock of 2m long material in 9010 Europoly as well. Other colours available upon request to suit.

b. Bluseal primarily supply our bottom capping in 2m lengths for ease of handling and transportation. At 2m this becomes a one-man job and also helps to alleviate potential horseshoes/kinks that can occur via manual handling. However we are happy to supply this in 3m as well as 3.6m lengths upon request.

4. What fixings do I need to get to fit the tophat to the drop rod?

a. Bluseal supply as standard, with all suspension systems, all the fixings that you need. With each tophat, you will have a pre-packaged bag that includes all of the nuts, washers and bolts you will need for all of the drops being used. This includes all the fixings needed to join tophat to tophat as well!

5. Do you supply PIR boards/Mineral Wool slabs for us to cut down on site?

a. Bluseal will supply pre-cut 1.2m lengths of your required infills for both inside the tophat and the void above it. If you tell Bluseal your panel thickness, then we will make sure we supply to suit. We can also obtain and supply full sheets of this material to use on site, but we can do the hard work for you!

6. I want to supply my own rod, nuts, and washers. Is this ok?

a. This is absolutely fine, on your point of enquiry please specify what you wish to be removed from the quote and we will do so. However, please note that this cannot be guaranteed by our test results. This only covers the suspension system. If Bluseal supply the full kit. Any modifications made to the Bluseal system would void the test results.

7. I need my powdercoated tophats a different colour that Ral9003, can Bluseal help?

a. This isn't a problem at all, if you can provide us with the RAL or BS code required we can get a special batch manufactured and supplied for you!

8. Can I add flashings and ancillary items to my orders, or do I need to separate my enquires?

a. No need to separate your orders, Bluseal are your one stop shop and will more than happily combine orders to maximise deliveries. Saving you time and hassle dealing with one supplier!
b. We will even look to amalgamate door and door spares orders as well, meaning you have a speedy all-in-one experience with Bluseal.



Scan the QR code.

0845 00 66 777

spares.blusealdoors.co.uk

metals@blusealdoors.co.uk