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# Installation Guide

## Structural Steel Protection

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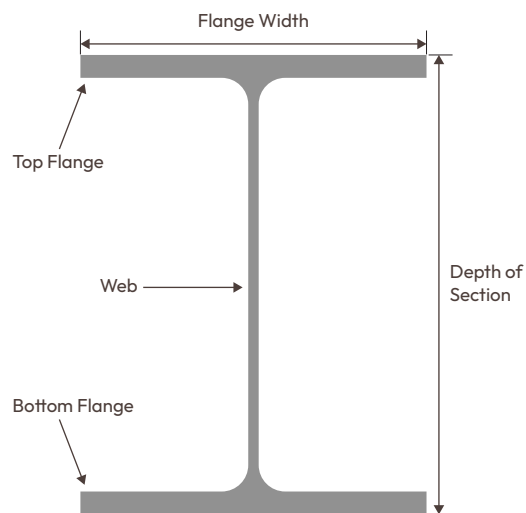
### Guides

- 01** | Universal column - 2 sided protection (corner)
- 06** | Universal column - 3 sided protection (against wall)
- 11** | Universal column - 4 sided protection
- 16** | Universal beam - 2 sided protection
- 21** | Universal beam - 3 sided protection
- 26** | Universal beam intersection
- 31** | Universal column - beam intersection
- 36** | Terminations of beams or columns - unprotected members interfacing with protected members and closing off web

# Installation Guide | 2-sided exposed steel column

## Step 1

Remove dust from all sides of the steel column.



## Step 2

Cut a 50 mm thick FIREFLYBatt as per the profile of the base plate. The batt needs to extend 15mm beyond the baseplate. Apply FIREFLYMastic on the base plate and the inner face of the batt, then install over the base plate/flange.

**Note:** The batt can be recessed by a maximum of 25mm to accommodate bolts/nuts.



### Step 3

Measure the distance between column flanges to determine nogging lengths.

**Note:** Noggings must be cut out of FIREFLYBatt to a length a few millimetres longer than the space between flanges to ensure a snug fit. It is advised that a dry fit test is conducted to check the fit before bonding the noggings.

Column end and intermediate noggings must have 100 mm width.

Noggings that occur at batt butt-joints must have 200 mm width.



### Step 4

Apply FIREFLYMastic on the edges of an end nogging and install between column flanges at the start of the column (over the batt installed in Step 2), flush with the column flange edges, ensuring a snug fit.

### Step 5

Repeat Step 3 for the opposite end of the column.





## Step 6

Install 200 mm width noggings at maximum 1200mm centres to coincide with the joints between the batts in Step 7. Install 100 mm width intermediate noggings at maximum 600mm centres between the 200 mm noggings as per Step 4.

## Step 7

Cut a 1200 mm batt to a width corresponding with the distance between the steel column and wall plus an additional 50 mm. Apply a 10mm bead of FIREFLYMastic to the noggings.

Paint the cut edges of batt with FIREFLYMastic BG and install it onto the noggings with temporary support to hold the batt in position until it can be fastened. The batt should protrude 50mm on the open side of the column.

Use pigtail screws, at 25mm from the edges and spaced 150mm apart, to fasten the batt to all noggings.



## Step 8

Where the batt butt-joints occur, ensure there is a nominal 100 mm overlap with the batt and the 200 mm nogging. Fix the noggings and batts using 90mm pigtail screws at 25mm from the joint and edges and then at 150mm centres. Ensure that the edges of the batt are well sealed to each other.

## Step 9

Measure the flange width side of the beam.



## Step 10

Cut the flange cover batts to a width corresponding with the distance between the steel column. Dry fit the batts to check that there is a snug fit with no gaps > 2mm between the installed batt (in Step 7) and the flange cover batt.

Run a 10mm bead of FIREFLYMastic along the centre of the column flange.

Paint the edges of the batts with FIREFLYMastic BG and install on the flange side of the column between the protruding batt and the wall. They should flush with the ends of the web side batt. Fasten the flange cover batts to the web side batts using 90mm pigtail screws, 25mm from the vertical batt edges at 150mm centres.

Butt joints between flange cover batts are bonded and sealed together with FIREFLYMastic BG.

## Step 11

Use FIREFLYMastic to fill the 15mm void between the batt and steel base plate



## Step 12

If there is a gap of 50mm to 300mm between the wall and the column, install a 50 x 50 x 1.5mm steel angle. It should be fastened to the wall with 32mm 14G masonry screws at 300mm centres. The steel angle should further be fastened to the batt with 50mm pigtail screws at 200mm centres.

The use of steel angles is not required if the distance between the column and wall is less than 50mm.

**Note:** Any pre-slotted/solid angle irons with specifications equal to or greater than the above can be used. Use appropriate penny washers if the slots are larger than the fixings.

Apply extra FIREFLYMastic BG on all the joints / corners / edges. Ensure there are no exposed green edges of batts visible from outside.



# Installation Guide | 3-sided exposed steel column

## Step 1

Remove dust from all sides of the steel column.



## Step 2

Cut a 50mm thick FIREFLYBatt as per the profile of the base plate. The batt needs to extend 15 mm beyond the base plate. Apply FIREFLYMastic on the base plate and the inner face of the batt, then install over the base plate/flange.

Note: The batt can be recessed by a maximum of 25mm to accommodate bolts/nuts.



### Step 3

Measure the distance between column flanges to determine nogging lengths.

**Note:** Noggings must be cut out of FIREFLYBatt to a length a few millimetres longer than the space between flanges to ensure a snug fit. It is advised that a dry fit test is conducted to check the fit before bonding the noggings.

Column end and intermediate noggings must have 100 mm width.

Noggings that occur at batt butt-joints must have 200 mm width.



### Step 4

Apply FIREFLYMastic on the edges of an end nogging and install between column flanges at the start of the column (over the batt installed in step 2), flush with the column flange edges, ensuring a snug fit.

### Step 5

Repeat Step 3 for the opposite end of the column.







## Step 6

Install 200 mm width noggings at maximum 1200mm centres to coincide with the joints between the batts in Step 7. Install 100 mm width intermediate noggings at maximum 600mm centres between the 200 mm noggings as per Step 4.

## Step 7

Cut a 1200 mm batt to a width corresponding to depth of section (refer to the figure in Step 1) plus an additional 100 mm. Apply a 10mm bead of FIREFLYMastic to the noggings.

Paint the cut edges of batt with FIREFLYMastic BG and install it onto the noggings with temporary support to hold the batt in position until it can be fastened. The batt should protrude 50mm on the open side of the column.



## Step 8

Use pigtail screws at 25mm from the edges and spaced 150mm apart, to fasten the batt to all noggings.

## Step 9

Where batt butt-joints occur, ensure there is a nominal 100mm overlap with the batt and the 200 mm nogging. Fix the noggings and batts using 90mm pigtail screws at 25mm from the joint and edges and at 150mm centres. Ensure the edges of the batt are well sealed to each other



## Step 10

Measure the flange width side of the beam.

Cut the flange cover batts to a width corresponding with the distance between the steel column. Dry fit the batts to check that there is a snug fit with no gaps > 2mm between the installed batt (Step 7) and the flange cover batt.

Run a 10mm bead of FIREFLYMastic along the centre of the column flange. Paint the edges of the batts with FIREFLYMastic BG and install on the flange side of the column between the protruding batt and the wall. They should flush with the ends of the vertical batt.

Fasten the flange cover batts to the web site batts using 90mm pigtail screws at 25mm from the vertical batt edges and at 150mm centres.

Butt joints between flange cover batts must be bonded and sealed together with FIREFLYMastic BG.

Repeat all steps for the other flange side of the column.



## Step 11

Use FIREFLYMastic to fill the 15mm void between the batt and steel plate.



## Step 12

If there is a gap of 50mm to 300mm between the wall and the column, install a 50 x 50 x 1.5mm steel angle. Angle should be fastened to the wall with 75mm 14G masonry screws at 300mm centres. The angle should be further fastened to the batt with 50mm pigtail screws at 200mm centres. Repeat for the flange side, if required.

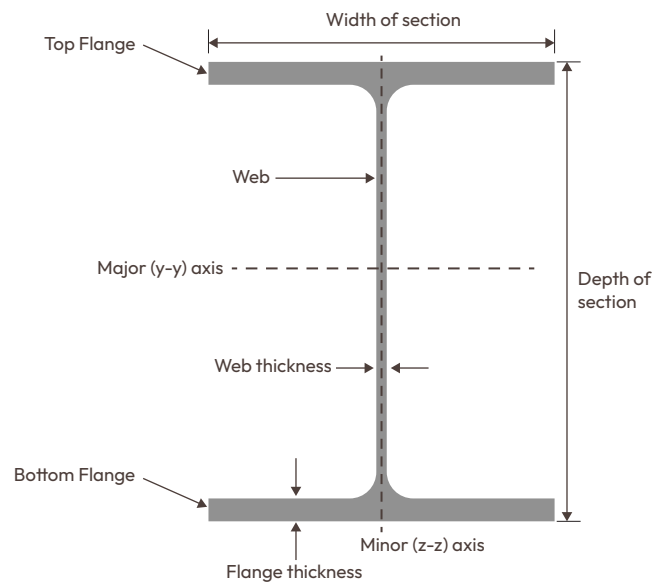
**Note:** The use of steel angles is not required if the distance between the column and wall is less than 50mm. Any pre-slotted/solid angle irons with specifications equal to or greater than the above can be used. Use appropriate penny washers if the slots are larger than the fixings.

Apply extra FIREFLYMastic BG on all the joints / corners / edges. Ensure there are no exposed green edges of batts visible from outside.

# Installation Guide | 4-sided exposed steel column

## Step 1

Remove dust from all sides of the steel column.



## Step 2

Cut a 50 mm thick FIREFLYBatt as per the profile of the base plate. The batt needs to extend 15 mm beyond the baseplate. Apply FIREFLYMastic on the base plate and the inner face of the batt, then install over the base plate/flange.

**Note:** The batt can be recessed by a maximum of 25mm to accommodate bolts/nuts.



### Step 3

Measure the distance between column flanges to determine nogging lengths.

**Note:** Noggings must be cut out of FIREFLYBatt to a length a few millimetres longer than the space between flanges to ensure a snug fit. It is advised that a dry fit test is conducted to check the fit before bonding the noggings.

Column end and intermediate noggings must have 100 mm width.

Noggings that occur at batt butt-joints must have 200 mm width.



### Step 4

Apply FIREFLYMastic on the edges of an end nogging and install between column flanges at the start of the column (over the batt installed in step 2), flush with the column flange edges, ensuring a snug fit.

### Step 5

Repeat Step 3 for the opposite end of the column.





## Step 6

Install 200 mm width noggings at maximum 1200mm centres to coincide with the joints between the batts in Step 7. Install 100 mm width intermediate noggings at maximum 600mm centres between the 200 mm noggings as per Step 4.

## Step 7

Cut a 1200 mm batt to a width corresponding to depth of section (refer to diagram in Step 1) plus an additional 100 millimetres. Apply a 10mm bead of FIREFLYMastic to the noggings.

Paint the cut edges of batt with FIREFLYMastic BG and install it onto the noggings with temporary support to hold the batt in position until it can be fastened. The batt should protrude 50mm on each side of the column.

Use pigtail screws, at 25mm from the edges and spaced 150mm apart, to fasten the batt to all noggings.



## Step 8

Where the batt butt-joints occur, ensure there is a nominal 100 mm overlap with the batt and the 200 mm nogging. Fix the noggings and batts using 90mm pigtail screws at 25mm from the joint and edges and then at 150mm centres. Ensure that the edges of the batt are well sealed to each other.

## Step 9

Repeats Steps 3 to 7 for the other web side of column.



## Step 10

Measure the flange width side of the beam. Cut the flange cover batts a few millimetres wider than the flange width. Dry fit the batts to check that there is a snug fit with no gaps > 2 mm between the installed batt (in Step 7) and the flange cover batt.

Run a 10mm bead of FIREFLYMastic along the centre of the column flange.

Paint the edges of the batts with FIREFLYMastic BG and install on the flange side of the column between the protruding batts. They should flush with the ends of the vertical batt. Fasten the flange cover batts to the vertical batts using 90mm pigtail screws, 25mm from the vertical batt edges at 150mm centres.

Butt joints between flange cover batts are bonded and sealed together with FIREFLYMastic BG.

Repeat the process for the other flange side of the column.



## Step 11

Use FIREFLYMastic to fill the 15mm void between the batt and steel base plate.



## Step 12

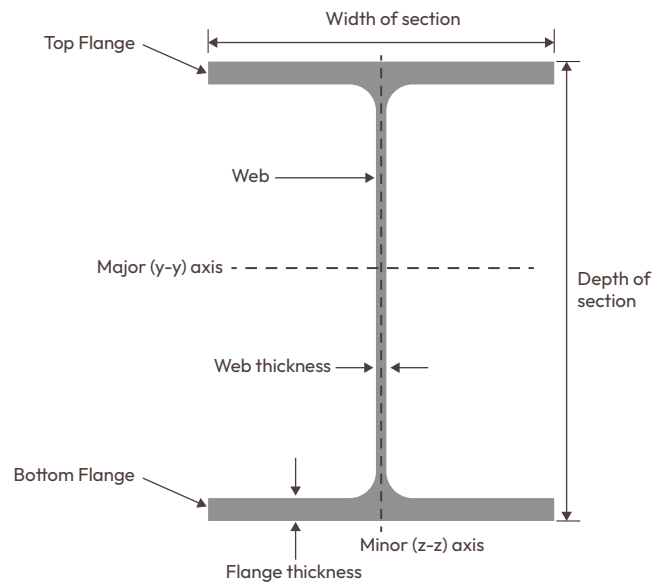
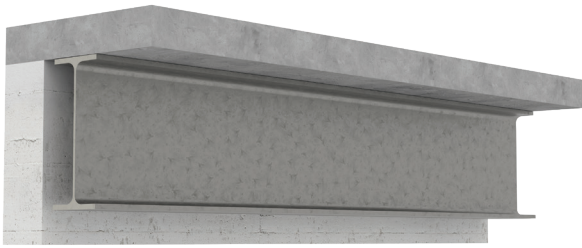
Apply extra FIREFLYMastic BG on all the joints / corners / edges. Ensure there are no visible cracks or exposed green edges of batts visible from outside.



# Installation Guide | 2 sided exposure - beam against slab to adjacent wall

## Step 1

Remove dust from all sides of the steel column.



## Step 2

Measure the distance between beam flanges to determine noggings lengths.

**Note:** Noggins must be cut to a length of a few millimetres longer than the space between the beam flanges to ensure a snug fit. It is advised that a dry fit is conducted to check the fit before bonding the noggings.

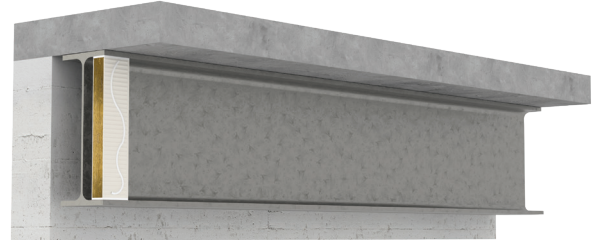
Beam end and intermediate noggings must have 100 mm width.

Noggings that occur at batt butt-joints must have 200 mm width.



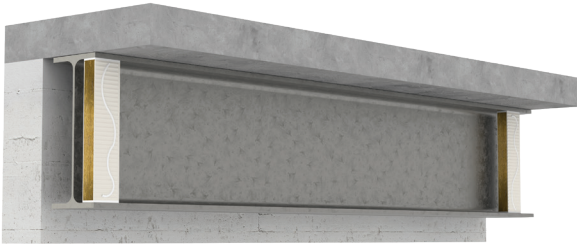
### Step 3

Apply FIREFLYMastic on the top and bottom edge of an end nogging and install between beam flanges at the start of the beam, flush with the beam flange edges, ensuring a snug fit.



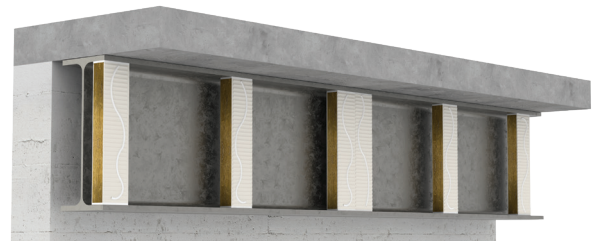
### Step 4

Repeat Step 3 for the opposite end of the beam.



### Step 5

Install 200 mm width noggings as in Step 3 at maximum 1200mm centres to coincide with the joints between the vertically orientated batts in Step 6. Install 100 mm width intermediate noggings at maximum 600 mm centres between the 200 mm noggings as per Step 3.





## Step 6

Cut a batt to a width corresponding with distance between the slab underside and bottom flange, adding 50 mm for the bottom flange overlap.

Apply a 10mm bead of FIREFLYMastic to the noggings.

Paint the cut edges with FIREFLYMastic BG and install it onto the noggings with temporary support to hold the batt in position until it can be fastened in Step 7.

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## Step 7

Cut a 1200 mm batt to a width corresponding to depth of section (refer to the figure in Step 1) plus an additional 100 mm. Apply a 10mm bead of FIREFLYMastic to the noggings.

Paint the cut edges of batt with FIREFLYMastic BG and install it onto the noggings with temporary support to hold the batt in position until it can be fastened. The batt should protrude 50mm on the open side of the column.



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## Step 8

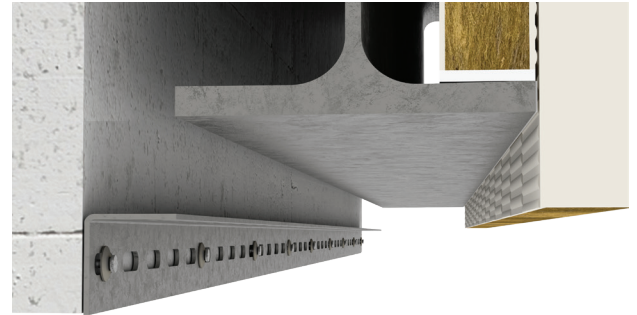
Where batt butt-joints occur, ensure there is a nominal 100 mm overlap with the batt and the 200 mm nogging. Use pigtail screws at 25mm from the edges and spaced 150mm apart to fasten the batt to all noggings. Ensure that the edges of the batt are well sealed to each other.



## Step 9

If there is a gap of 50mm to 300mm between the wall and the column, install a 50 x 50 x1.5 mm steel angle. The angle should be fastened to the wall with 32mm 14G masonry screws at 300mm centres.

**Note:** Any pre-slotted/solid angle irons with specs equal to or greater than above can be used. Use appropriate penny washers if the slots are larger than fixings.



## Step 10

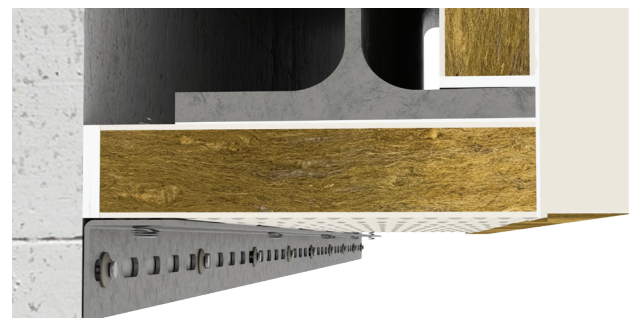
Measure the flange width side of the beam.



## Step 11

Cut underside flange cover batts to a width corresponding with the distance between the steel column. Dry fit the flange cover batts to check that there is a snug fit with no gaps > 2mm between the installed vertical batt.

Run a 10mm bead of FIREFLYMastic along the centre of the beam flange and over the angle iron.



## Step 12

Paint the edges of batts with FIREFLYMastic BG and install on the flange side of the beam. It should flush with the ends of the vertical batts. Fasten the flange cover batts to the vertical batts using 90mm pigtail screws, 25mm from the vertical batt edges at 150mm centres.

Butt joints between the underside flange over batts are bonded and sealed together with FIREFLYMastic BG.



## Step 13

Apply extra FIREFLYMastic BG on all the joints / corners / edges, ensuring there are no visible cracks or exposed green edges of the batts visible from the outside.

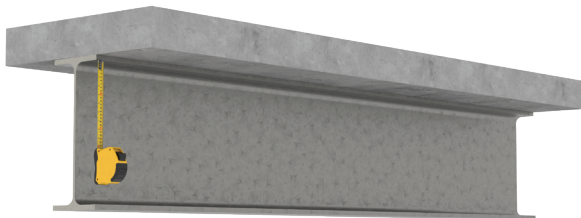
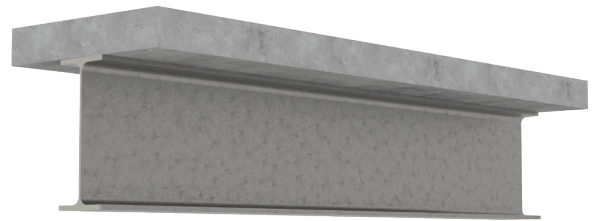
**Note:** if there is a gap between 50 and 300 mm between the wall and the beam, install a 50 x 50 x1.5 mm steel angle. It should be fastened to the wall or floor with 75mm 14G masonry screws. The steel angle should further be fastened to the batt with 50mm pigtail screws at 200mm centres.

Note: the use of steel angles is not required if the gap between the beam and wall/floor is less than 50mm. Any pre-slotted angle irons with specs equal to or greater than above can be used. Use appropriate penny washers if the slots are larger than fixings.

# Installation Guide | 3 sided exposure - beam against slab

## Step 1

Remove dust from all sides of the steel column.



## Step 2

Measure the distance between beam flanges to determine noggings lengths.

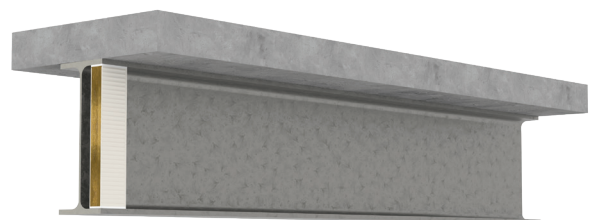
**Note:** Noggings must be cut to a length of a few millimetres longer than the space between the beam flanges to ensure a snug fit. It is advised that a dry fit is conducted to check the fit before bonding the noggings.

Beam end and intermediate noggings must have 100 mm width.

Noggings that occur at batt butt-joints must have 200 mm width.

## Step 3

Apply FIREFLYMastic on the top and bottom edge of an end noggling and install between beam flanges at the start of the beam, flush with the beam flange edges, ensuring a snug fit.



## Step 4

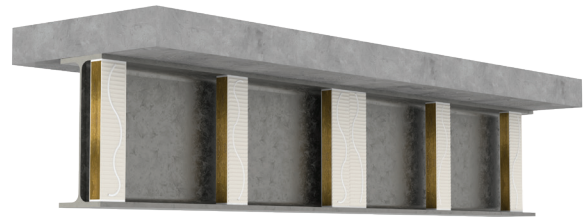
Repeat Step 3 for the opposite end of the beam.



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## Step 5

Install 200 mm width noggings at maximum 1200mm centres to coincide with the joints between the vertically oriented batts in Step 6. Install 100 mm width intermediate noggings at maximum 600 mm centres between the 200 mm noggings as per Step 3.



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## Step 6

Cut a batt to a width corresponding with distance between the slab underside and bottom flange, adding 50 mm for the bottom flange overlap.

Apply a 10mm bead of FIREFLYMastic to the noggings. Paint the cut edges of batt with FIREFLYMastic BG and install it onto the noggings with temporary support to hold the batt in position until it can be fastened in Step 7.



## Step 7

Use pigtail screws at 25mm from the edges and spaced 150mm apart, to fasten the batt to all noggings.



## Step 8

Where batt butt-joints occur, ensure there is a nominal 100 mm overlap with the batt and the 200 mm nogging. Fix the soldier batt and web site batts using 90mm pigtail screws at 25mm from the joint and edges and then at 150mm centres. Ensure that the edges of the batt are well sealed to each other.

## Step 9

Repeat Steps 3 to 8 for the other web side of the beam.





## Step 10

Measure the flange width side of the beam.



## Step 11

Cut underside flange cover batts a few millimetres wider than the flange width. Dry fit the batts to check that there is a snug fit with no gaps > 2mm between the installed vertical batts and the underside flange cover.

Run a 10mm bead of FIREFLYMastic along the centre of the beam flange and over the angle iron.

Paint the edges of batts with FIREFLYMastic BG and install on the flange side of the beam. It should flush with the ends of the vertical batts. Fasten the flange cover batts to the vertical batts using 90mm pigtail screws, 25mm from the vertical batt edges at 150mm centres.

Butt joints between the underside flange over batts are bonded and sealed together with FIREFLYMastic BG.



## Step 12

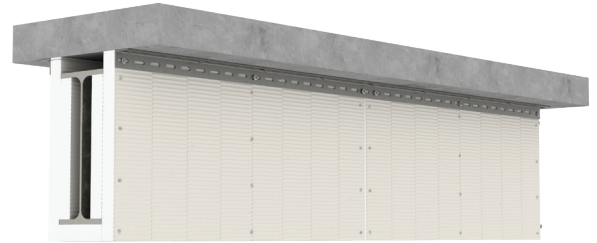
Apply extra FIREFLYMastic BG on all the joints / corners / edges, ensuring there are no visible cracks or exposed green edges of the batts as seen from the outside.



## Step 13

Note: if there is a gap of 50 to 300 mm between the wall and the beam and / or the floor and the beam, install a 50x50x1.5 mm steel angle. It should be fastened to the wall or floor with 32mm 14G masonry screws. The steel angle should further be fastened to the batt with 50mm pigtail screws at 200mm centres.

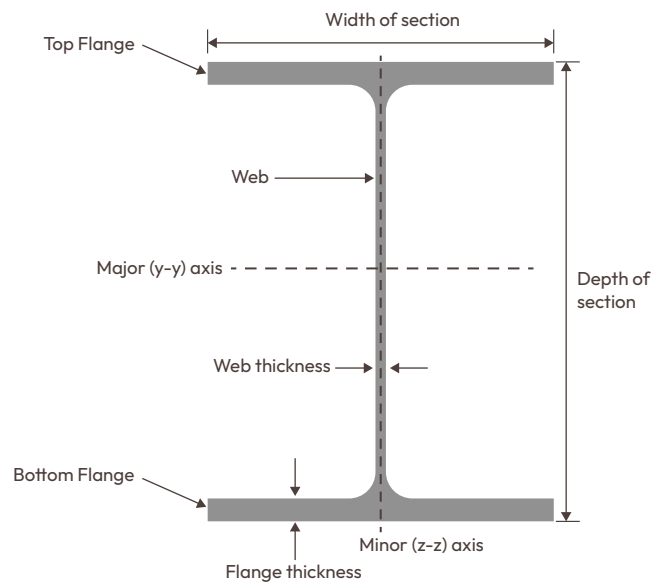
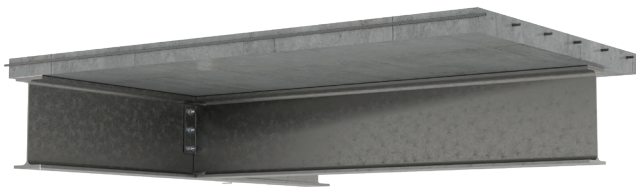
**Note:** the use of steel angles is not required if the gap between the beam and wall/floor is less than 50mm. Any pre-slotted/solid angle irons with specs equal to or greater than above can be used. Use appropriate penny washers if the slots are larger than fixings.



# Installation Guide | beam - 3 sided exposure

## Step 1

Remove dust from all sides of the steel beam.



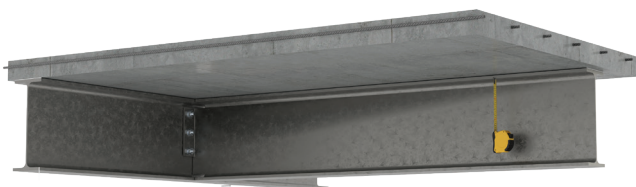
## Step 2

Measure the distance between beam flanges to determine noggling lengths.

**Note:** Noggings must be cut out of FIREFLYBatt to a length a few millimetres longer than the space between the beam flanges to ensure a snug fit. It is advised that a dry fit is conducted to check the fit before bonding the noggings.

Beam end and intermediate noggings must have 100 mm width.

Noggings that occur at batt butt-joints must have 200 mm width.

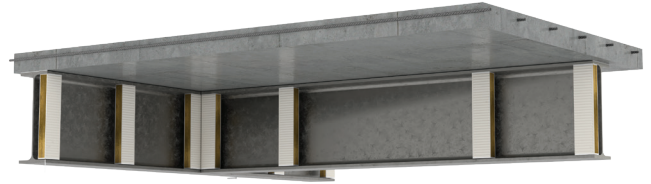


### Step 3

Apply FIREFLYMastic on the top and bottom edge of an end nogging and install between beam flanges at the intersection of two beams, flush with the beam flange edges, ensuring a snug fit.

Moreover, slide the nogging towards the opposite beam, such that it touches the web of the second beam.

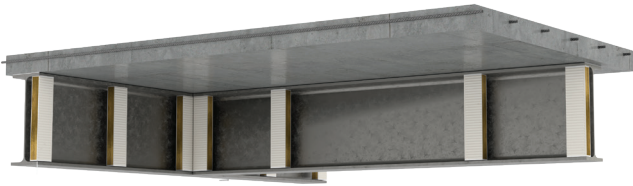
Install another nogging at the intersection on the second beam as per above, slide the nogging such that it touches the front face of the nogging installed previously.



### Step 4

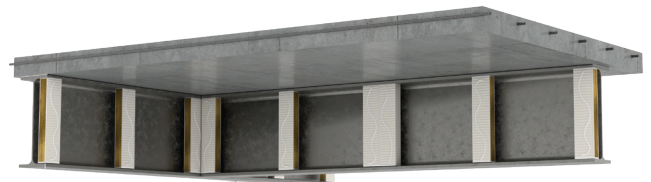
Apply FIREFLYMastic on the top and bottom edge of an end nogging and install between beam flanges at the end of the beams, flush with the beam flange edges, ensuring a snug fit.

Install 100 mm width intermediate noggings at maximum 600mm centres between the 200 mm noggins as per Step 3.



### Step 5

Install 200 mm width noggings at maximum 1200mm centres to coincide with the joints between the vertically oriented batts in Step 6.



## Step 6

Cut a batt to a width corresponding with distance between the slab underside and bottom flange, adding 50 mm for the bottom flange overlap.

Apply a 10mm bead of FIREFLYMastic to the noggings.

Paint the cut edges of batt with FIREFLYMastic BG and install it onto the noggings at the intersection such that it is flush with the nogging installed in Step 3.

Use temporary support to hold the batt in position until it can be fastened in Step 7.



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## Step 7

Use pigtail screws at 25mm from the edges and spaced 150mm apart, to fasten the batt to all noggings.



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## Step 8

Install 1200 mm batt as in Step 6 at the other beam. This batt should be flush with the 1200 mm batt installed in Step 6.

Use pigtail screws at 25mm from the edges and spaced 150mm apart, to fasten the batt to all noggings.

Where batt butt-joints occur, ensure there is a nominal 100 mm overlap with the batt and the 200mm nogging. Fit the noggings and web site batts using 90mm pigtail screws at 25mm from the joint and edges and then at 150mm centres. Ensure the edges of batt are well sealed to each other.



## Step 9

Repeat Steps 3 to 8 for the other web sides of the beam.



## Step 10

Measure the flange width side of the beam.



## Step 11

Cut underside flange cover batts a few millimetres wider than the flange width. Dry fit the batts to check that there is a snug fit with no gaps > 2mm between the installed vertical batts and the underside flange cover batt.

Run a 10mm bead of FIREFLYMastic along the centre of the beam flange.

Paint the edges of batts with FIREFLYMastic BG and install on the flange side of the beam between the protruding vertical batts. They should flush with the ends of the vertical batts. Fasten the flange cover batts to the vertical batts using 90mm pigtail screws at 25mm from the vertical batt edges at 150mm centres.

Butt joints between the underside flange cover batts are bonded and sealed together with FIREFLYMastic BG.



## Step 12

Apply extra FIREFLYMastic BG on all the joints / corners / edges, ensuring that there are no visible cracks or exposed green edges of the batts as seen from outside.



## Step 13

Note: if there is a gap of 50 to 300 mm between the wall and the beam and / or the floor and the beam, install a 50 x 50 x 1.5 mm steel angle. It should be fastened to the wall or floor with 32mm 14G masonry screws. The steel angle should further be fastened to the batt with 50mm pigtail screws at 200mm centres.

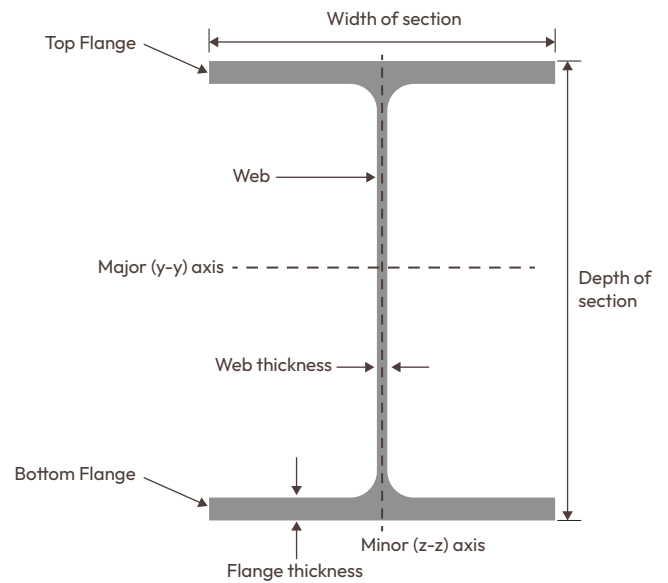
**Note:** the use of steel angles is not required if the gap between the beam and wall/floor is less than 50mm. Any pre-slotted/solid angle irons with specs equal to or greater than above can be used. Use appropriate penny washers if the slots are larger than fixings.



# Installation Guide | 4 sided exposed column beam intersection

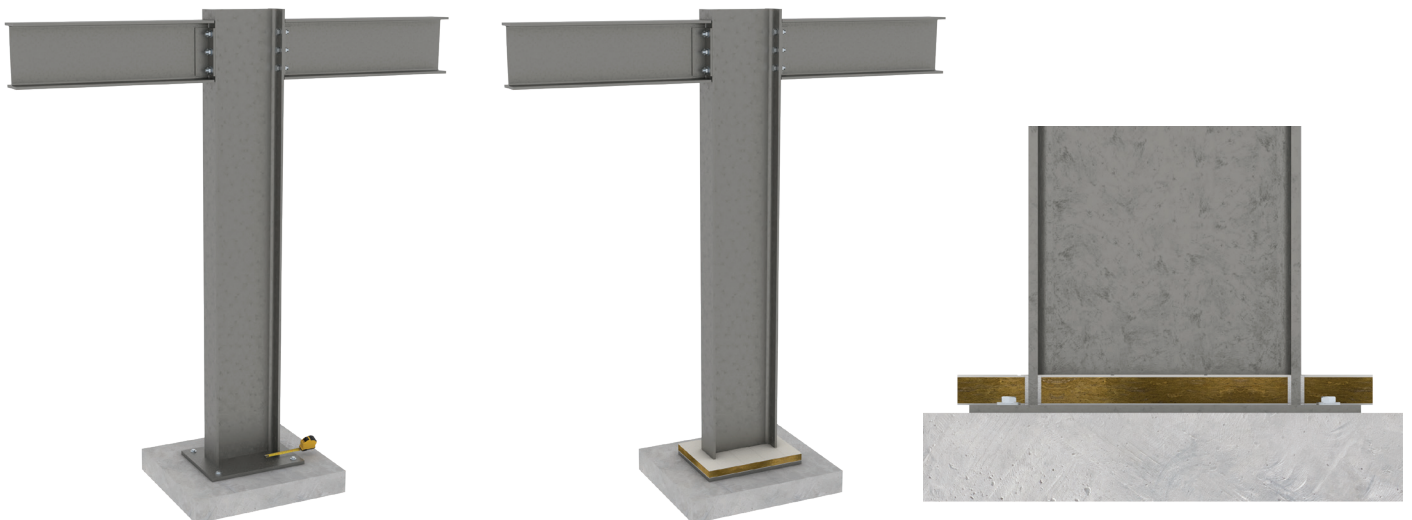
## Step 1

Remove dust from all sides of the steel beam.



## Step 2

Cut a 50 mm thick FIREFLYBatt as per the profile of the base plate. The batt needs to extend 15mm beyond the baseplate. Apply FIREFLYMastic on the base plate and the inner face of the batt, then install over the base plate / flange. **Note:** The batt can be recessed by 25mm maximum to accommodate bolts/nuts.





### Step 3

Measure the distance between column flanges to determine nogging lengths.

**Note:** Noggings must be cut out of FIREFLYBatt to a length a few millimetres longer than the space between flanges to ensure a snug fit. It is advised that a dry fit test is conducted to check the fit before bonding the noggings.

Column end and intermediate noggings must have a width of 100 mm.

Noggings that occur at batt butt-joints must have 200 mm width.



### Step 4

Apply FIREFLYMastic on the edges of an end nogging and install between column flanges at the start of the column, over the batt installed in Step 2, flush with the column flange edges.

### Step 5

Repeat Step 4 for the opposite end of the column.





## Step 6

Repeat Steps 3 and 4 for the steel beam ie. install end noggings. Also install noggings at the intersection joint.

## Step 7

Install 200 mm width noggins at maximum 1200mm centres, onto column and beam, to coincide with the joints between the batts in Step 6. Install 100 mm width intermediate noggings onto column and beam at maximum 600mm centres between the 200 mm noggins.



## Step 8

Cut a 1200 mm batt to a width corresponding to depth of section of the column plus an additional 100 mm.

Apply a 10mm bead of FIREFLYMastic to the noggings.

Paint the cut edges of batt with FIREFLYMastic BG and install it onto the noggings with temporary support to hold the batt in position until it can be fastened in Step 9. The batt should protrude 50mm on each side of the column.

## Step 9

Use pigtail screws at 25mm from the edges and spaced 150mm apart to fasten the batt to all noggings.



## Step 10

Where batt butt-joints occur, ensure there is a nominal 100mm overlap with the batt and the 200 mm nogging. Fix the noggings and batts using 90mm pigtail screws at 25mm from the joint and edges and then at 150mm centres. Ensure the edges of the batt are well sealed to each other.

## Step 11

Repeat Steps 3 to 8 for the other web side of the column and for both web sides of the beam.



## Step 12

Measure the flange width side of the column. Cut the flange cover batts a few millimetres wider than the flange width. Dry fit the batts to check that there is a snug fit with no gaps > 2mm between the installed batt (Steps 7 to 10) and the flange cover batt.

Run a 10mm bead of FIREFLYMastic along the centre of the column flange.

Paint the edges of batts with FIREFLYMastic BG and install on the flange side of the column between the protruding batts. They should flush with the ends of the vertical batts. Fasten the flange cover batts to the vertical batts using 90mm pigtail screws at 25mm from the vertical batt edges and at 150mm centres.

Butt joints between flange cover batts are bonded and sealed together with FIREFLYMastic BG.

Repeat this step for the other flange side of the column and for both flange sides of the beam.



## Step 13

Fill the 15mm void between the batt and steel base plate with FIREFLYMastic.

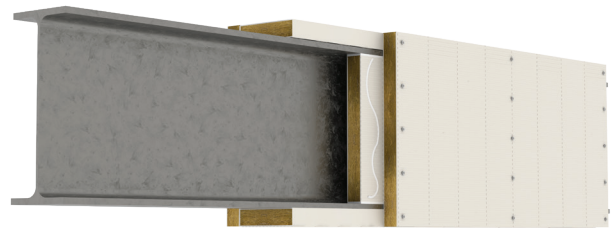
Apply additional FIREFLYMastic BG on all joints / corners / edges. Ensure there are no visible cracks or exposed green edges of batts as seen from outside.



# Installation Guide | Beam - termination unprotected beam intersecting with protected beam

## Step 1

Boxout the protected beam as per installation manual for 4 sided exposed steel beam.



## Step 2

Continue boxout as in Step 1 for at least 300mm on the unprotected beam.

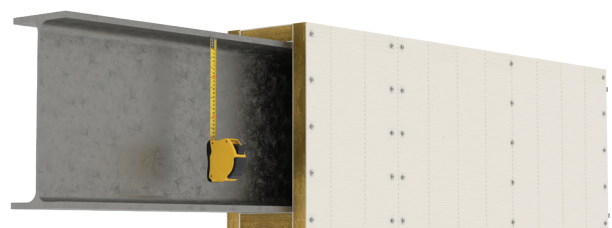


## Step 3

Measure the distance between unprotected beam flanges to determine noggings lengths.

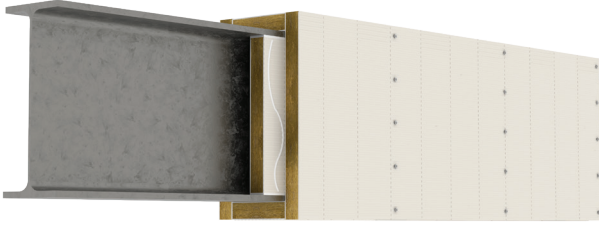
**Note:** Noggings must be cut to a length of a few millimetres longer than the space between the beam flanges to ensure a snug fit. It is advised that a dry fit is conducted to check the fit before bonding the noggings.

Beam end and intermediate noggings must have 100 mm width.



## Step 4

Apply FIREFLYMastic on the top and bottom edge of the end nogging and install between beam flanges 50mm inside from the edge of the batt, flush with the beam flange edges.



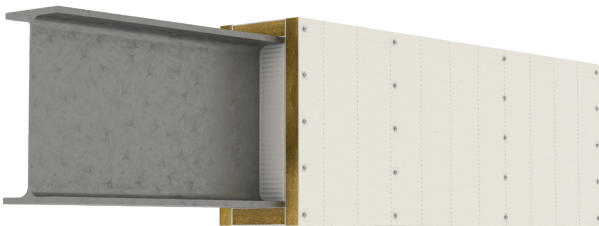
## Step 5

Cut another nogging as per profile of the steel beam. Dry fit the nogging to ensure there is a snug fit with no gaps > 2mm between the installed vertical batts and web of the beam. Apply FIREFLYMastic on all sides and install it in the void between the web and batt at the end flushed with the batt.



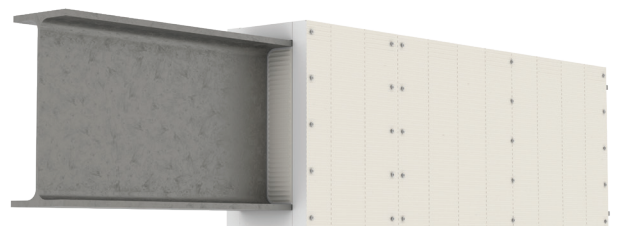
## Step 6

Use pigtail screws at 25mm from the edges and spaced 150mm apart, to fasten the batt to the nogging installed in Step 5. Repeat Steps 5 and 6 for the other side of the beam.



## Step 7

Apply additional FIREFLYMastic BG on all the joints / corners / edges. Ensure that there are no visible cracks or exposed green edges of batt as seen from the outside.



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