FIREFLY™ PASSIVE FIRE PROTECTION

INSTALLATION GUIDE
FIREFLY™ PHOENIX
SMOKE & FLAME BARRIER
VERTICAL FIRE BARRIER

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MATERIAL REQUIREMENTS

FIREFLY™ PHOENIX™ SMOKE & FLAME BARRIER
GALVANISED ANGLE (50 X 50 X 0.7MM MIN.)
GALVANISED ANGLE (25 X 25 X 0.7MM MIN.)
SUITABLE FIRE RESISTANT FIXINGS
TBA **FIREFLY™** 12MM STAPLES
TBA **FIREFLY™** HIGH TEMPERATURE ADHESIVE

TOOLS

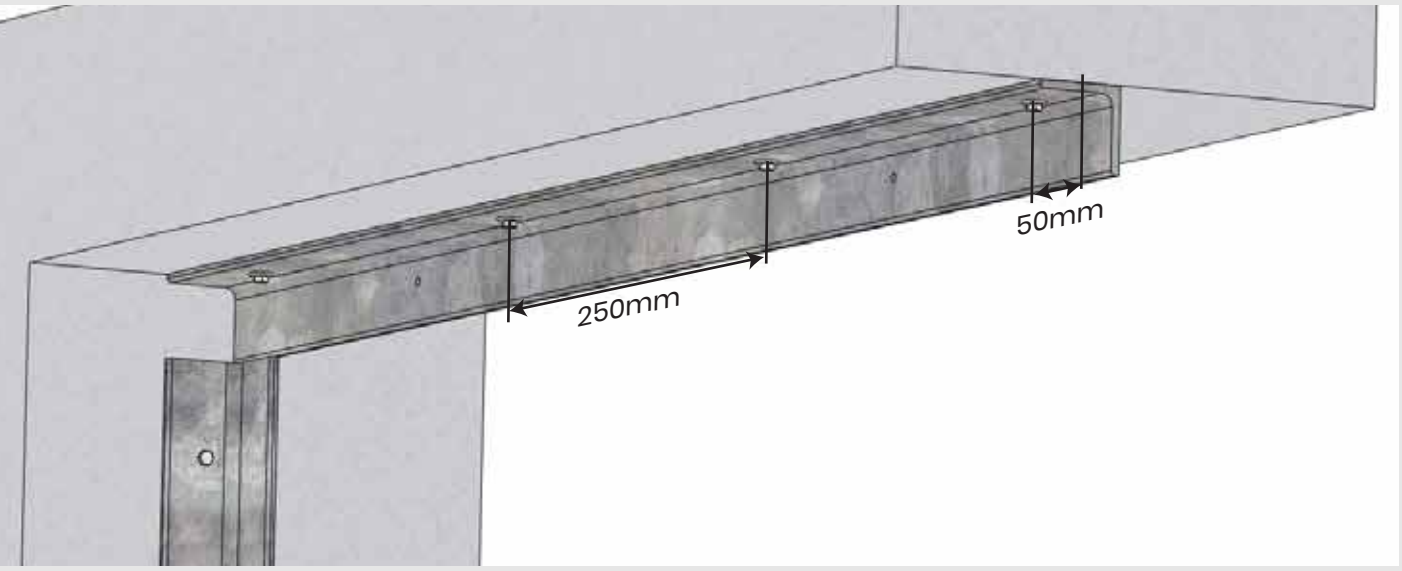
DRILL / DRIVER
TBA **FIREFLY™** STAPLER
BITS AND SOCKETS
SELF LEVELLING LASER
SILICONE GUN

For larger installations, refer to the relevant product drawings 022 & 030. Contact the manufacturer for clarification on non-standard installations.

STEP 1

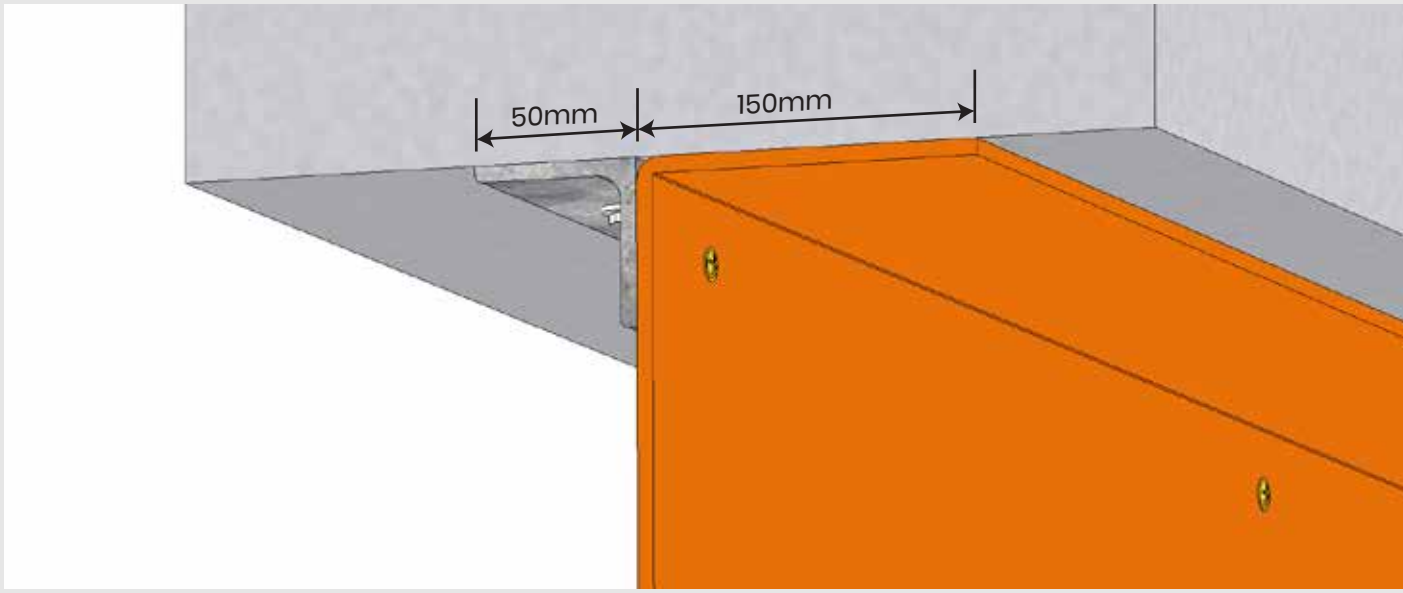
Set out and clearly mark position of fire barrier on the walls, floor and soffit.

Fix 50x50x0.7mm galvanised angle to soffit at 250mm centres with appropriate fire resistant fixings Ensure the vertical downstand of the galvanised angle follows the desired line of the vertical barrier and the horizontal portion of the angle projects away from the barrier.



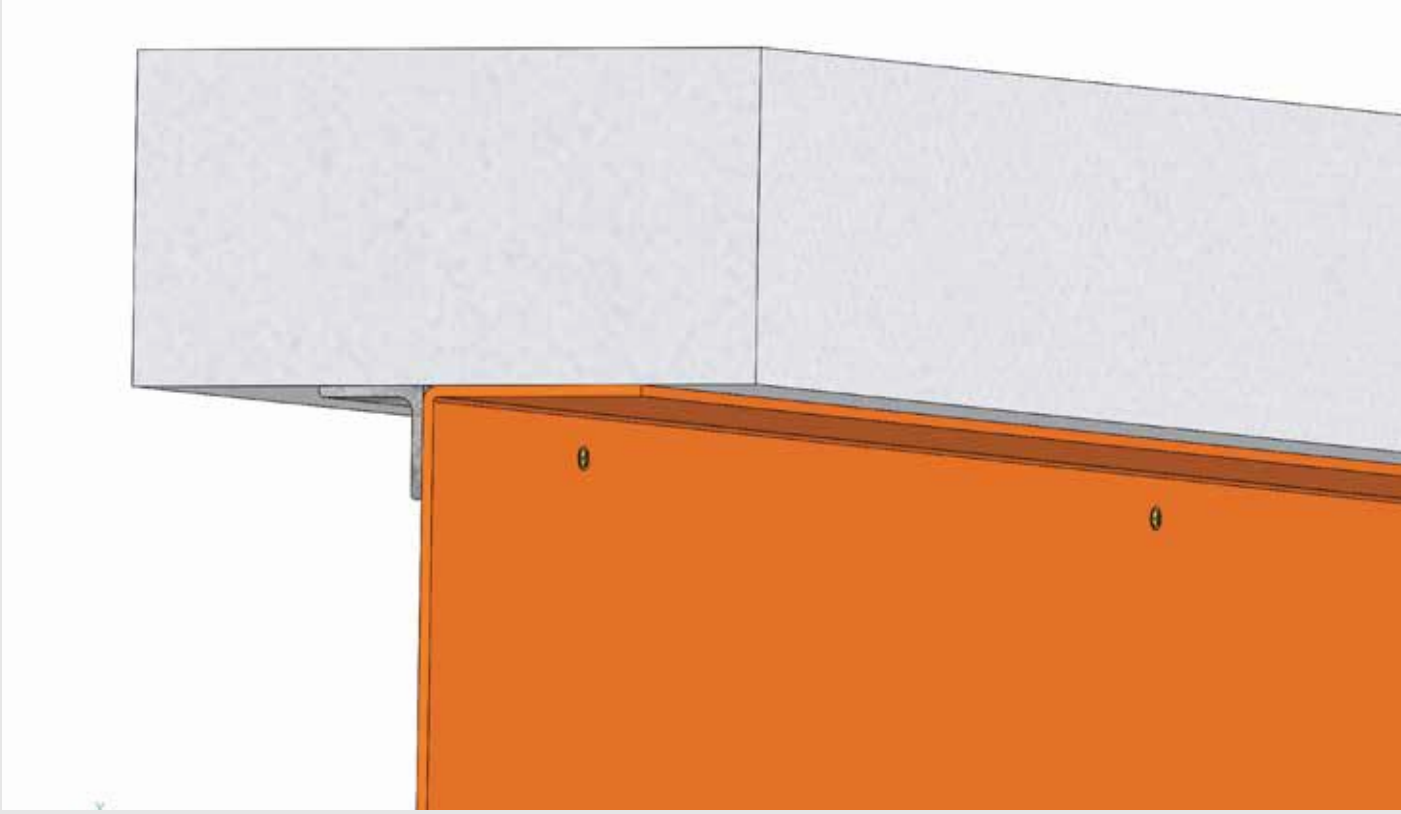
STEP 2

Position the first sheet of **PHOENIX™** at one end of the barrier against the vertical downstand of the galvanised angle ensuring a minimum lap of 150mm onto the horizontal soffit, vertical walls and horizontal floor.



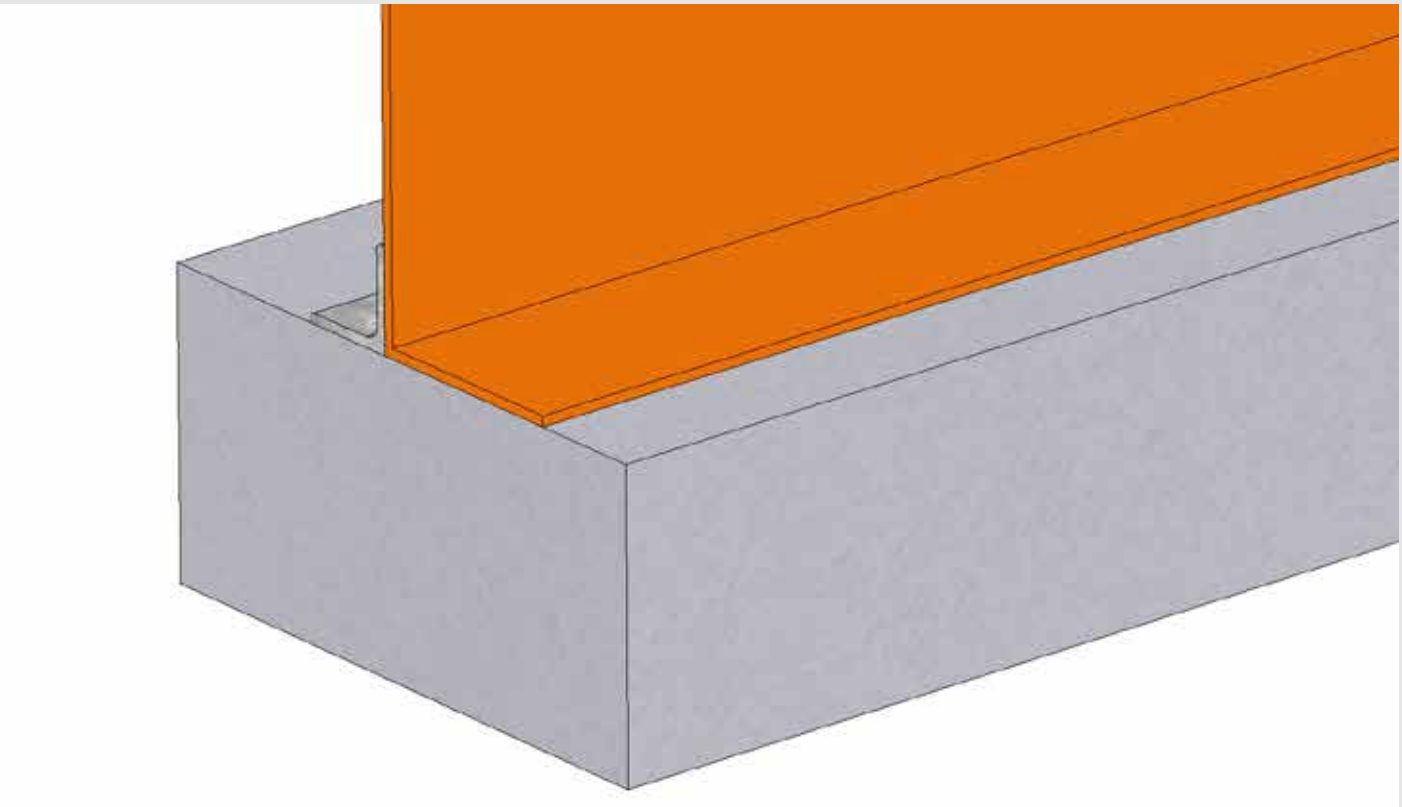
STEP 3

Tack the **PHOENIX™** to the galvanised angle using suitable fire resistant fixings at 600mm centres.



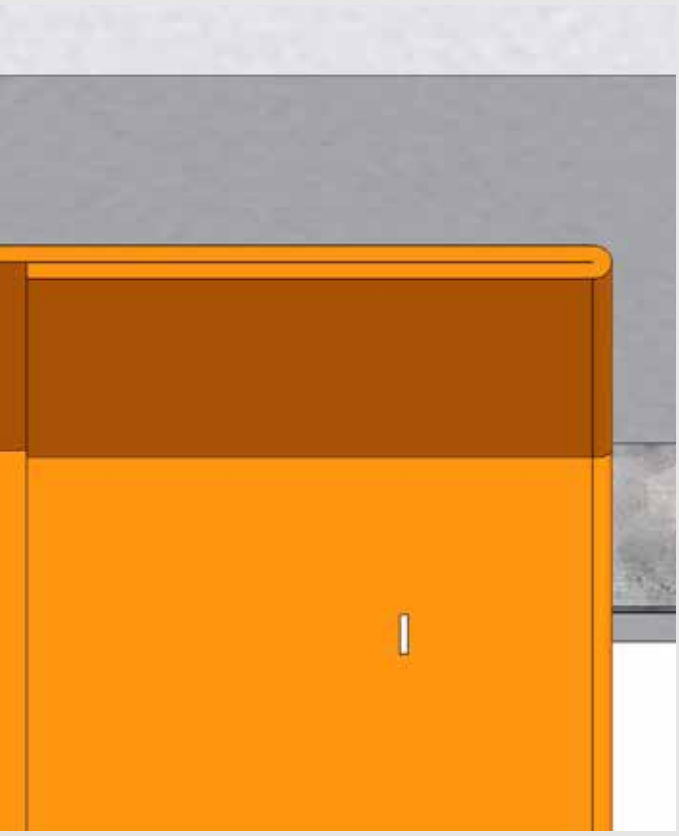
STEP 4

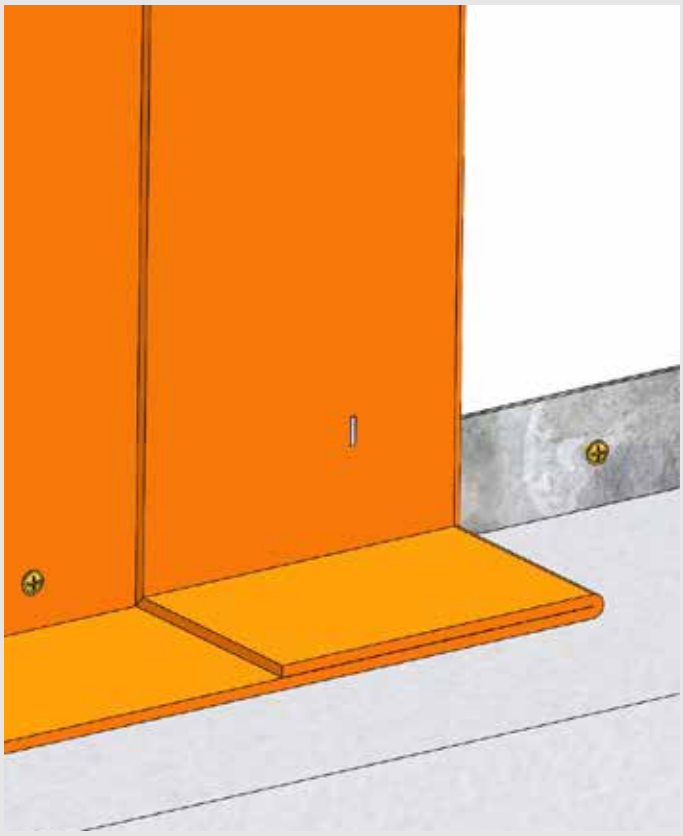
Lap the **PHOENIX™** vertical barrier onto the floor of the protected zone by a minimum of 150mm and tack to the galvanised angle.



STEP 5

Fold the vertical leading edge of **PHOENIX™** back over by a minimum of 75mm to create an overlap.



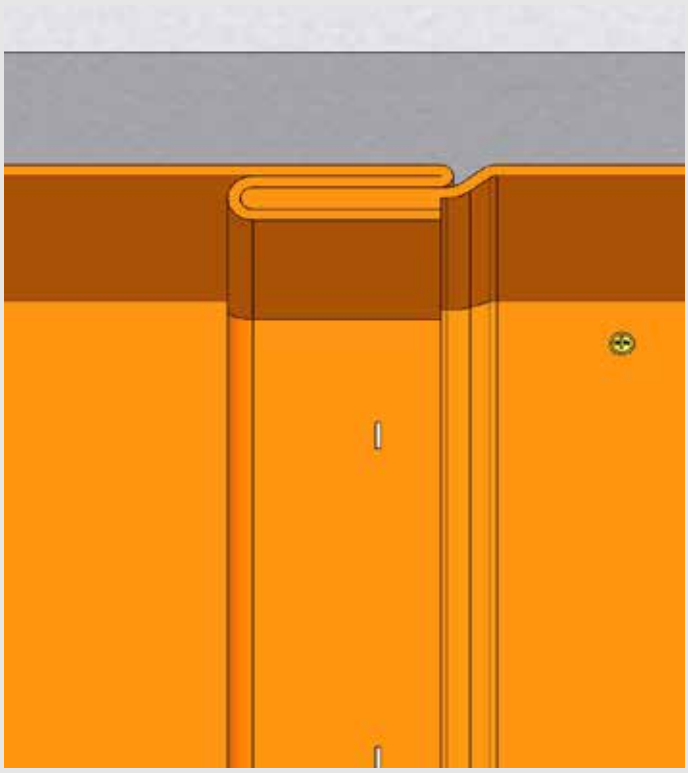


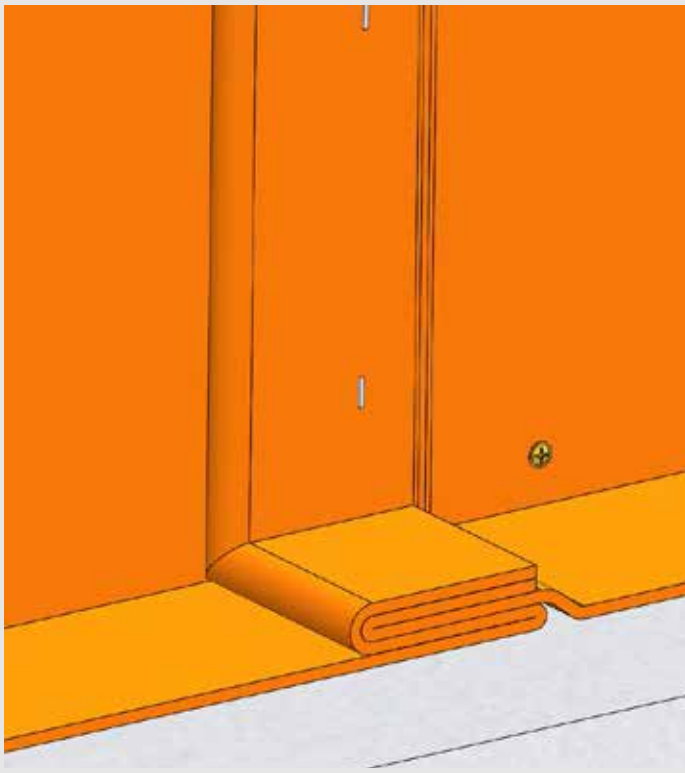
STEP 6

Position the adjacent sheet of **PHOENIX™**, ensuring a minimum lap of 50mm over the existing vertical sheet and 150mm onto the horizontal soffit and floor.
Temporarily fix the **PHOENIX™** to the galvanised angle using suitable fire resistant fixings at 600mm centres.
Staple the vertical lapped joint together using 1 row of TBA **FIREFLY™** 8mm stainless steel staples fixed at 500mm vertical centres.

STEP 7

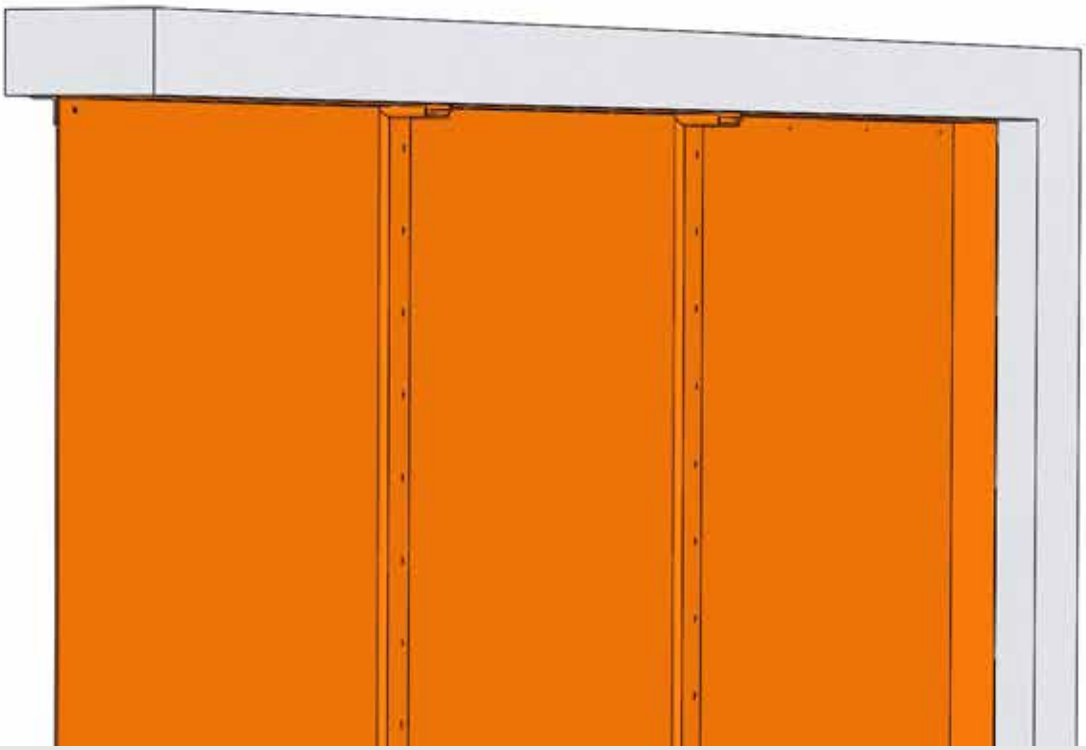
Fold the 50mm formed seam in half to create a 25mm continuously sealed double fold joint.
Staple the double fold joint together using 1 row of TBA **FIREFLY™** 8mm stainless steel staples fixed at 100mm vertical centres.





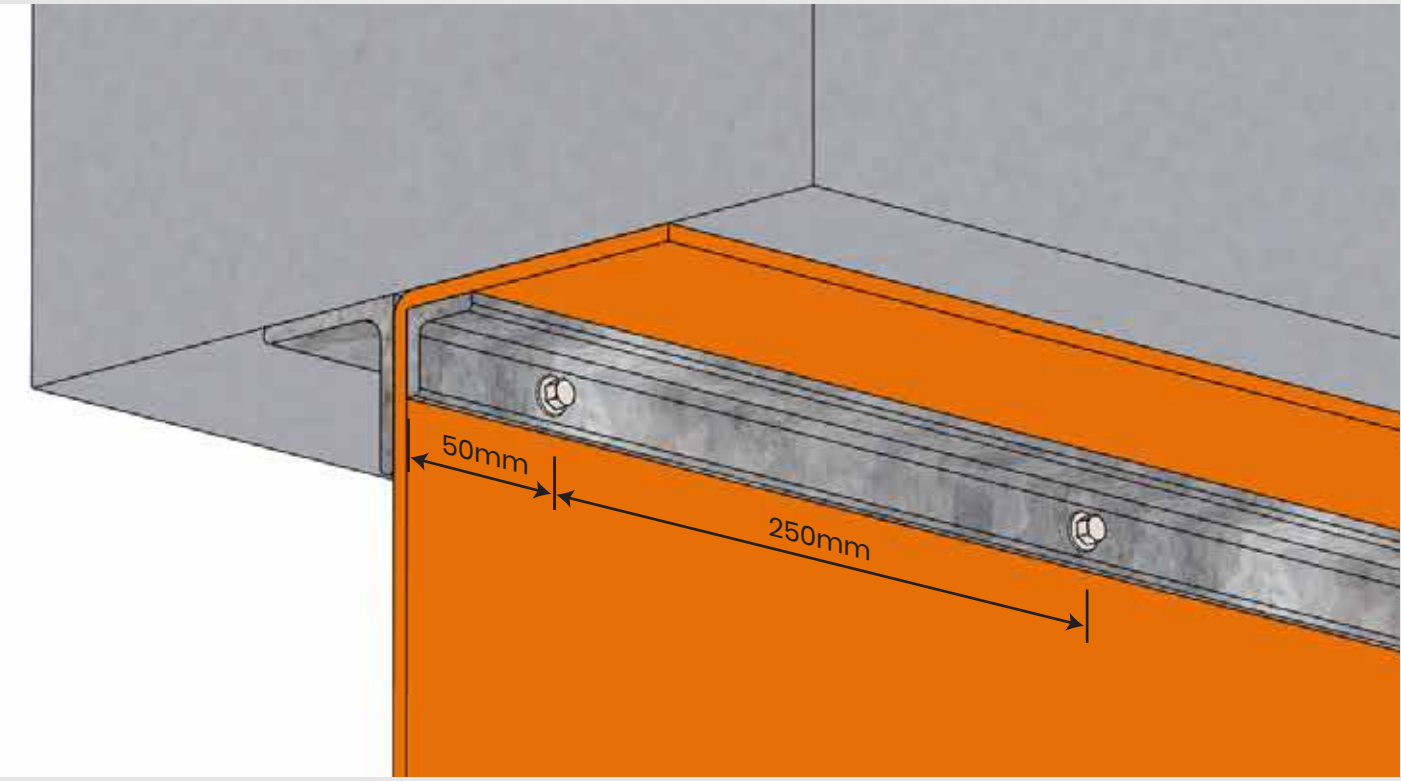
STEP 8

Continue installation in one direction to the end of the fire barrier, ensuring a minimum 150mm lap onto vertical perimeter wall.



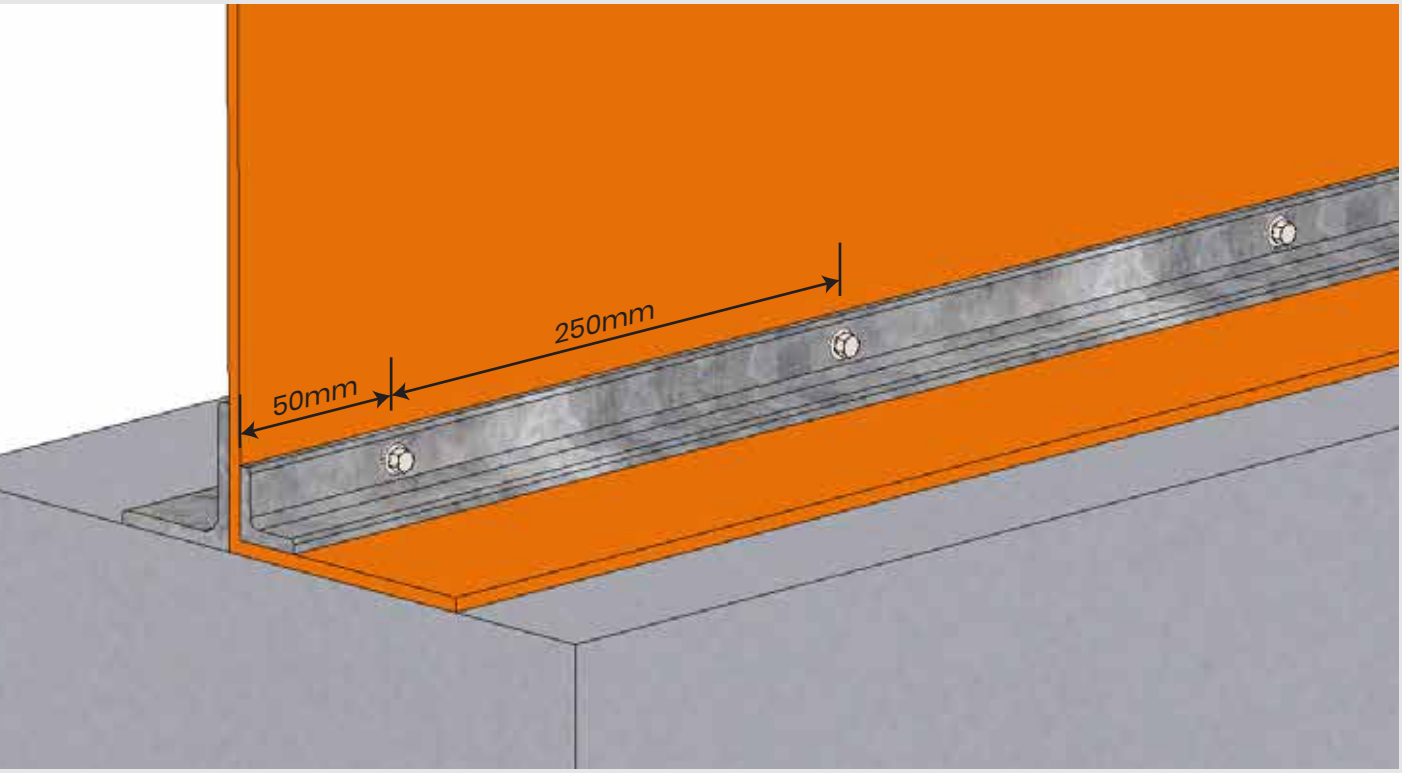
STEP 9

At the horizontal head of the barrier, retain the **PHOENIX™** with a 25x25x0.7 galvanised angle fixed through the barrier and to the downstand of the 50x50x0.7 angle. Use suitable fire resistant fixings, starting 50mm from either end and at 250mm maximum centres.



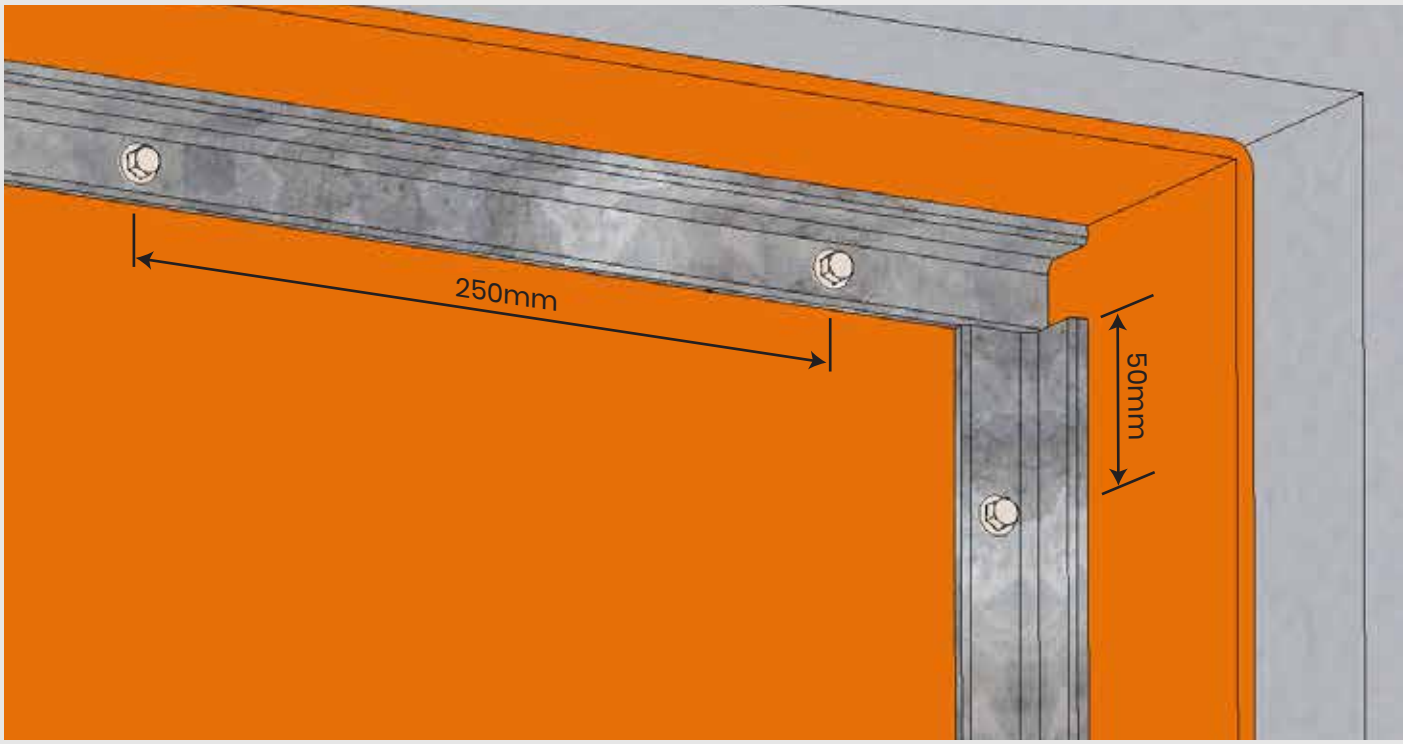
STEP 10

At the horizontal base of the barrier, retain the **PHOENIX™** with a 25x25x0.7 galvanised angle fixed through the barrier and to the downstand of the 50x50x0.7 angle. Use suitable fire resistant fixings, starting 50mm from either end and at 250mm maximum centres.



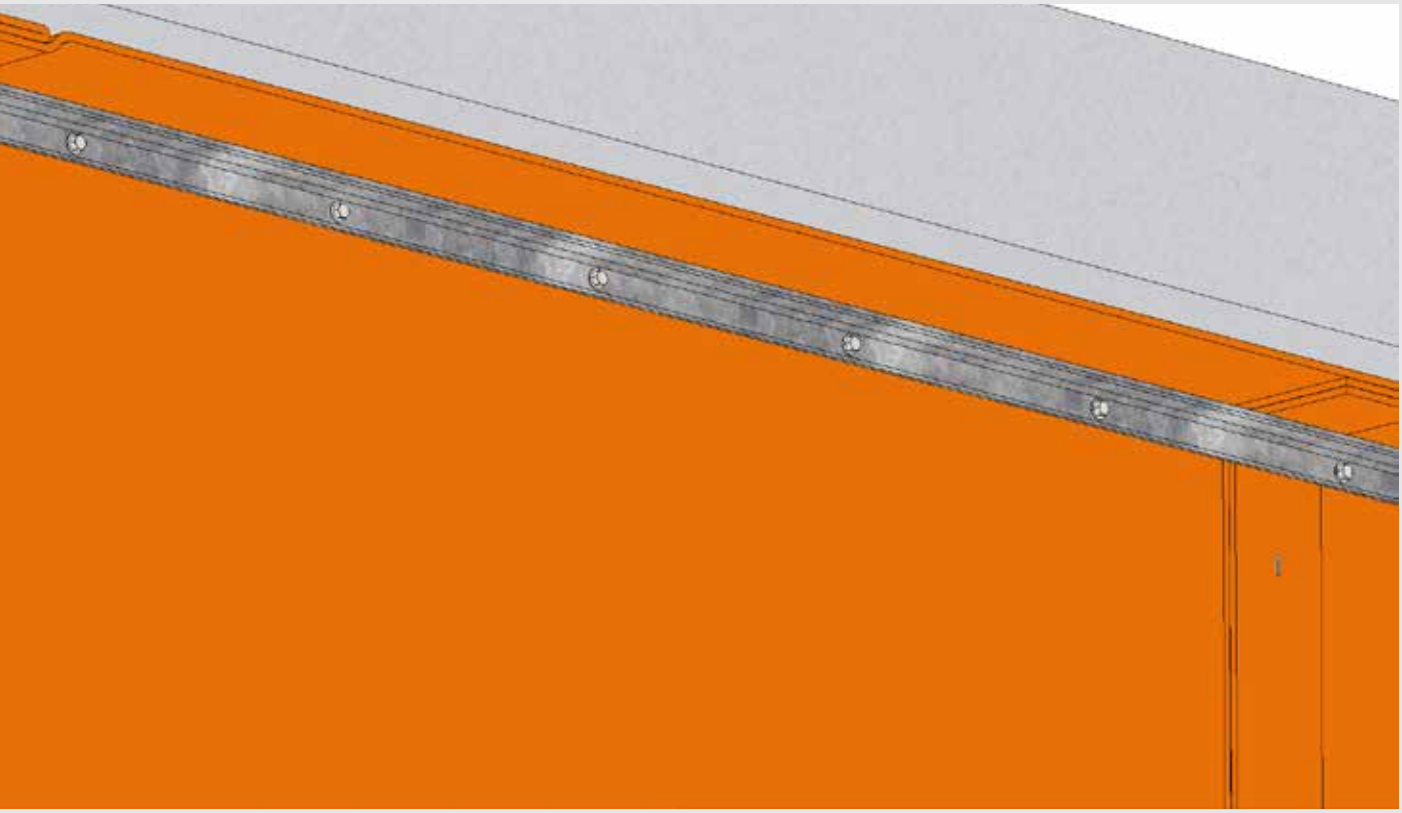
STEP 11

At the vertical sides of the barrier, retain the **PHOENIX™** with a 25x25x0.7 galvanised angle fixed through the barrier and to the downstand of the 50x50x0.7 angle. Use suitable fire resistant fixings, starting 50mm from either end and at 250mm maximum centres.



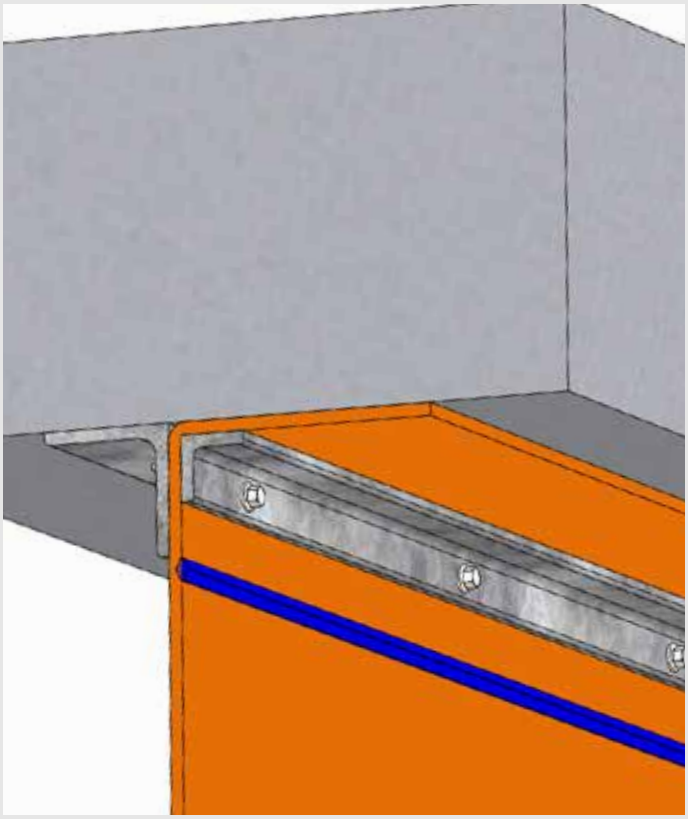
STEP 12

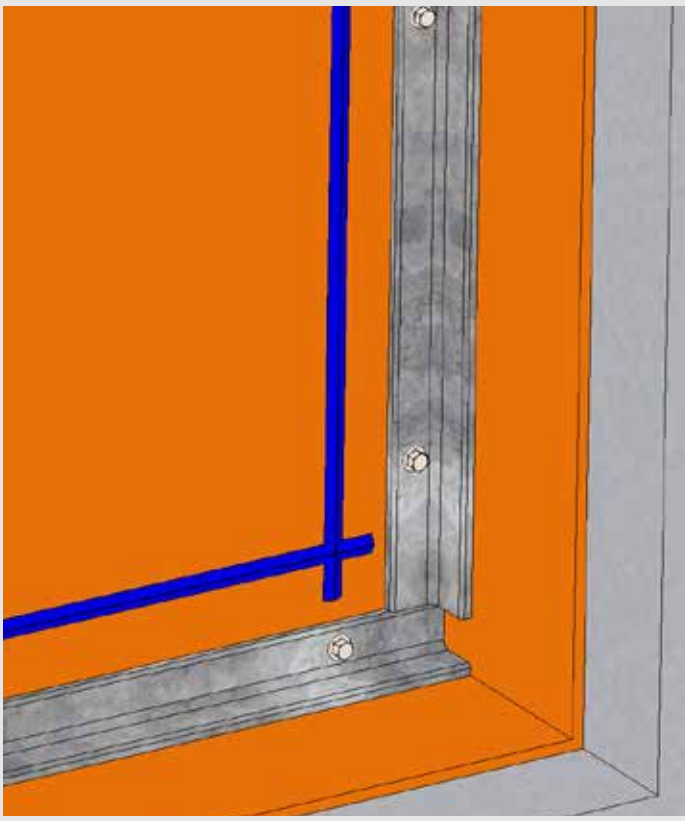
Quality check all retaining galvanised angles, fixing and staples to confirm the installation is in accordance with TBA **FIREFLY™** recommendations.



STEP 13

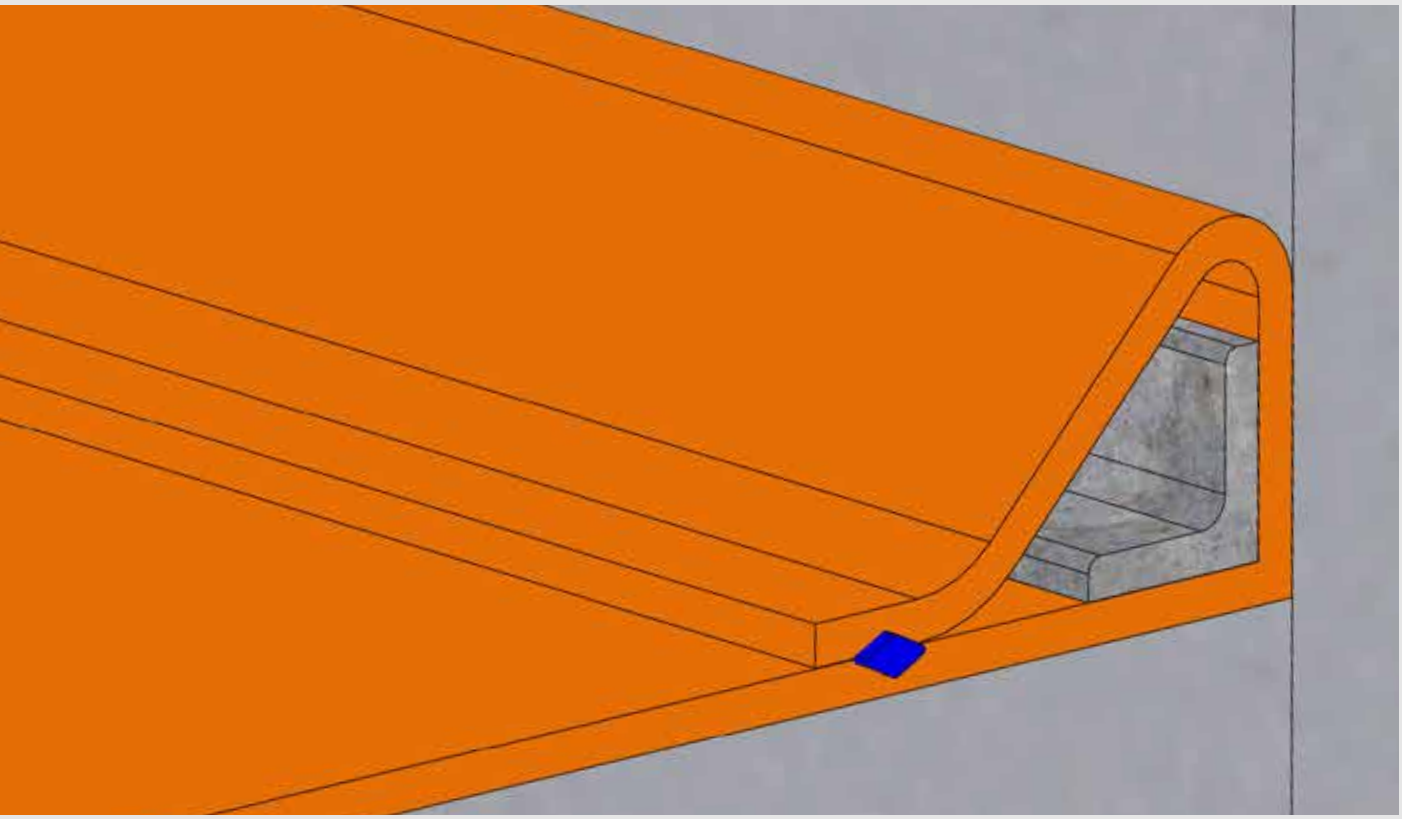
Apply a 6mm bead of **PHOENIX™** High Temperature Adhesive around the entire perimeter of the installation 25mm inboard of the galvanised angle.





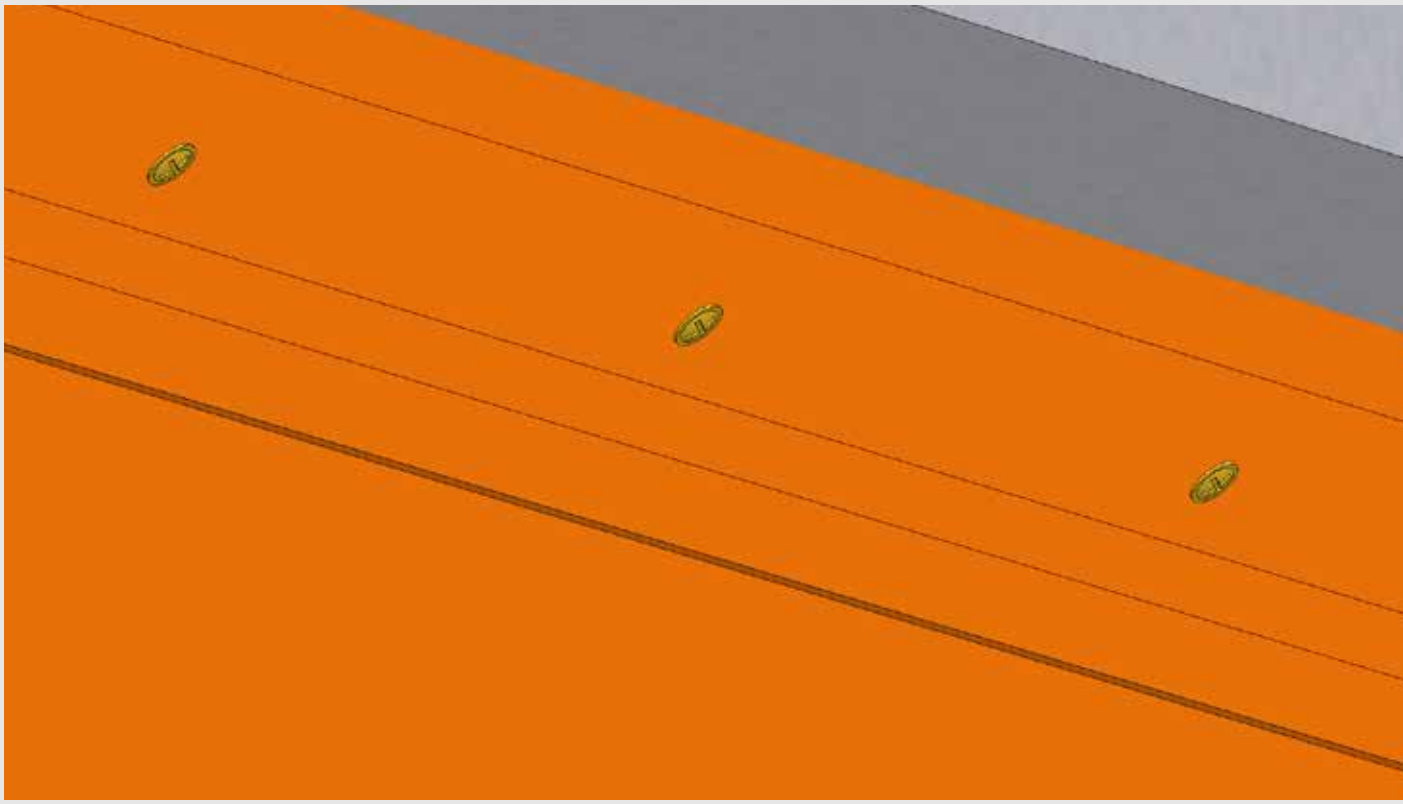
STEP 14

Fold the perimeter lap of PhoenixTM back over the galvanised angle and press firmly into the bead of **FIREFLY™** High Temperature Adhesive.



STEP 15

Secure the folded **PHOENIX™** into place using suitable fire resistant fixings at 600mm centres.



STEP 16

The completed **FIREFLY™ PHOENIX™** fire barrier provides 120 minutes integrity only in accordance with BS 476: Part 22: 1987