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DO NOT SCALE. IF IN DOUBT ASK!

FIREFLY® 38mm TEK SCREWS SECURE THE CLAMPING CHANNEL TO THE SUPPORTING CHANNEL ABOVE AT 250mm CENTRES

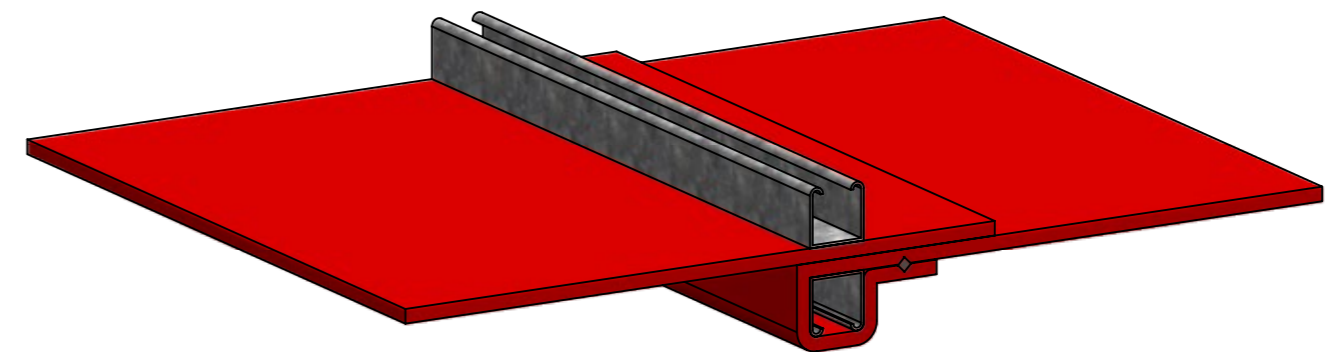
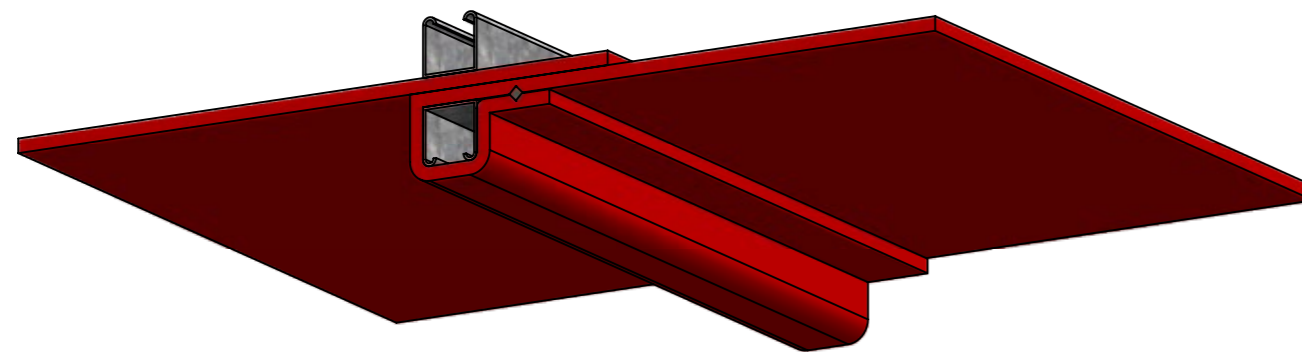
41 x 41mm UNISTRUT CHANNEL

100mm MIN OVERLAP

41 x 41mm UNISTRUT CHANNEL OR 41 x 21mm UNISTRUT HALF CHANNEL

A BEAD OF FIREFLY® HIGH TEMPERATURE ADHESIVE

150mm NOMINAL OVERLAP



### PHOENIX - HORIZONTAL CLAMP FIX

TBA PROTECTIVE TECHNOLOGIES LTD  
 Unit 3, Transpennine Trading Estate,  
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DESIGNER: JC  
 APPROVED: KG  
 DATE: 28/08/2023  
 SCALE: NTS

DRAWING NO:  
**PH - 101B**  
 REVISION: 2  
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DO NOT SCALE. IF IN DOUBT ASK!

FIREFLY® 38mm TEK SCREWS SECURING THE CLAMPING ANGLE TO THE UNISTRUT AT 250mm CENTRES

41mm x 41mm UNISTRUT CHANNEL

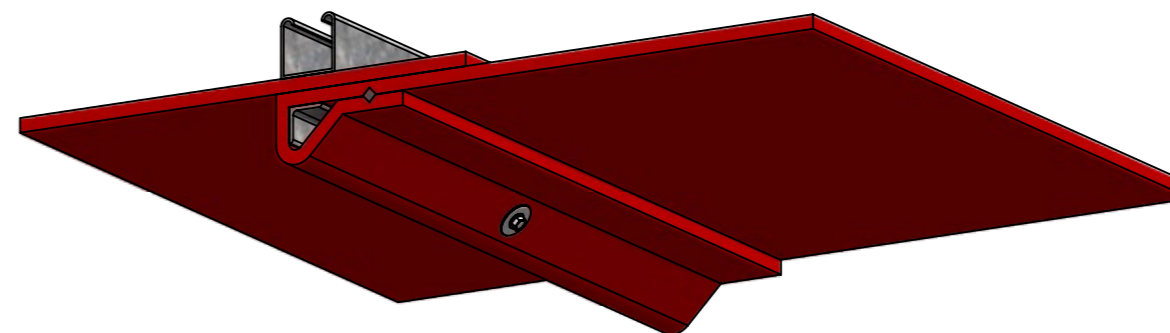
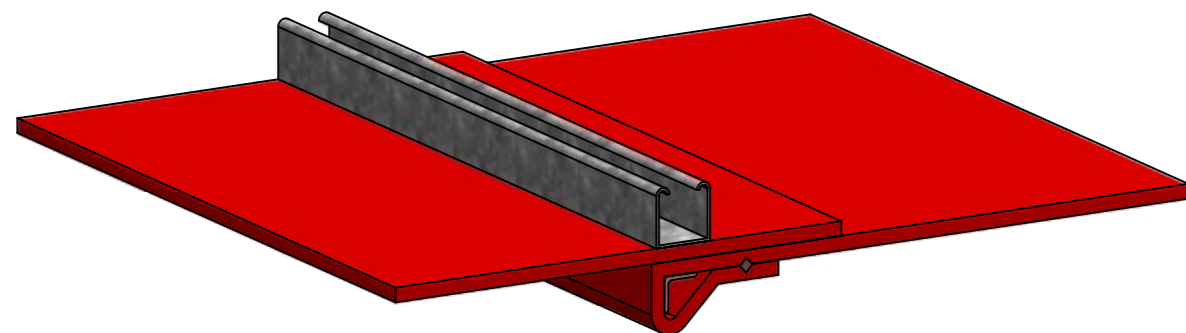
100mm MIN OVERLAP

25mm x 25mm x 0.7mm MIN THICK GALVANISED ANGLE CLAMPING BOTH INSTANCES OF THE BARRIER TO THE SUPPORTING UNISTRUT

A BEAD OF FIREFLY® HIGH TEMPERATURE ADHESIVE

150mm NOMINAL OVERLAP OF FIREFLY® BARRIER

FIREFLY® 38mm TEK SCREWS AND WASHERS SECURING THE OVERLAP TO THE CLAMPING ANGLE AT 600mm CENTRES



### PHOENIX - HORIZONTAL CLAMP FIX

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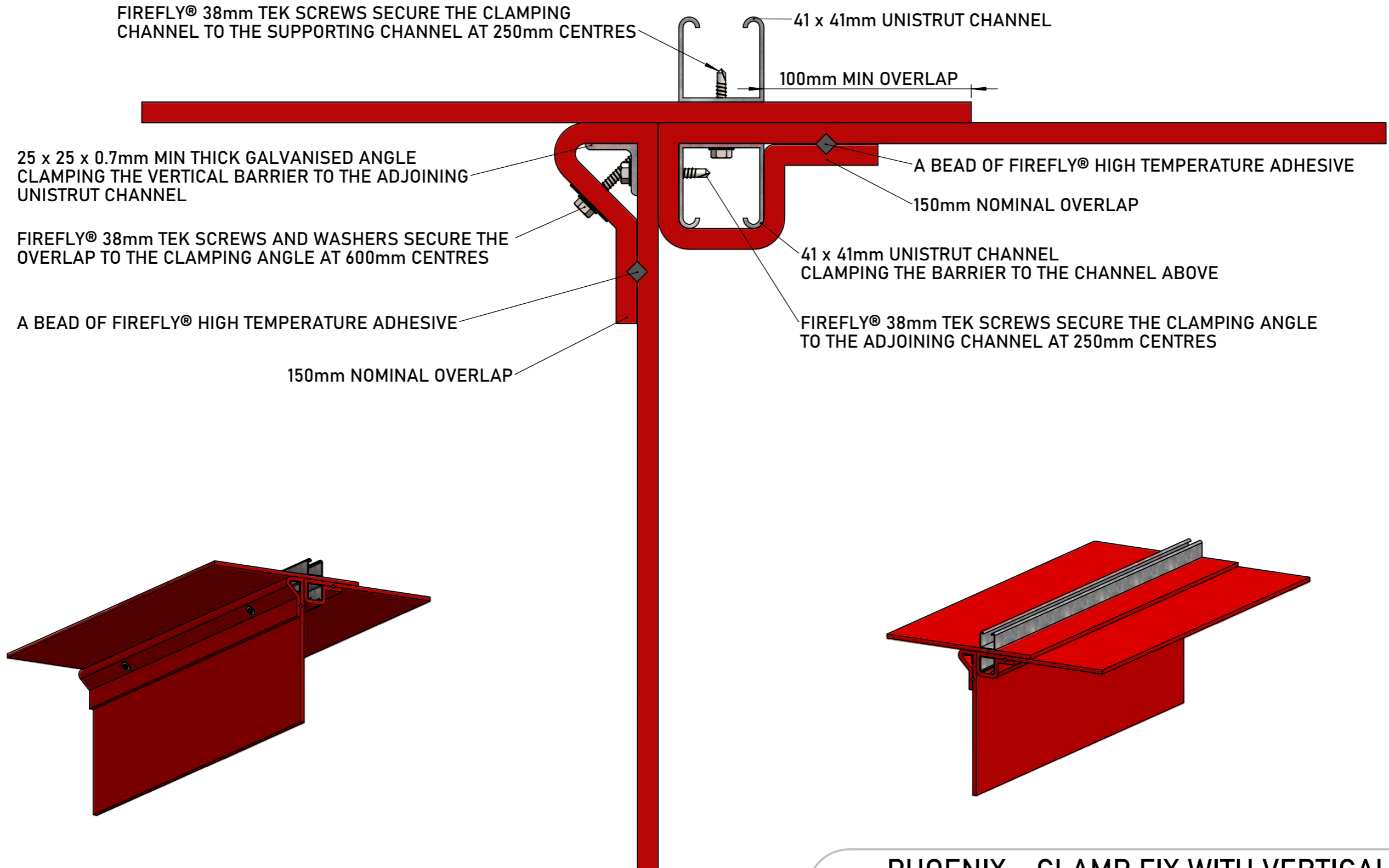
4

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**PHOENIX - CLAMP FIX WITH VERTICAL DROP**

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DESIGNER: JC	DRAWING NO:
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DO NOT SCALE. IF IN DOUBT ASK!

FIREFLY® 38mm TEK SCREWS SECURE THE 50 x 50 x 0.7mm ANGLE TO THE SUPPORTING CHANNEL AT 250mm CENTRES

25 x 25 x 0.7mm MIN THICK GALVANISED ANGLE, CLAMPING THE BARRIER TO THE SUPPORTING ANGLE

FIREFLY® 38mm TEK SCREWS SECURE THE 25 x 25 x 0.7mm ANGLE TO THE 50 x 50 x 0.7mm ANGLE AT 250mm CENTRES

FIREFLY® 38mm TEK SCREWS AND WASHERS SECURE THE OVERLAP TO THE CLAMPING ANGLE AT 600mm CENTRES

A BEAD OF FIREFLY® HIGH TEMPERATURE ADHESIVE

150mm NOMINAL OVERLAP

41 x 41mm UNISTRUT CHANNEL

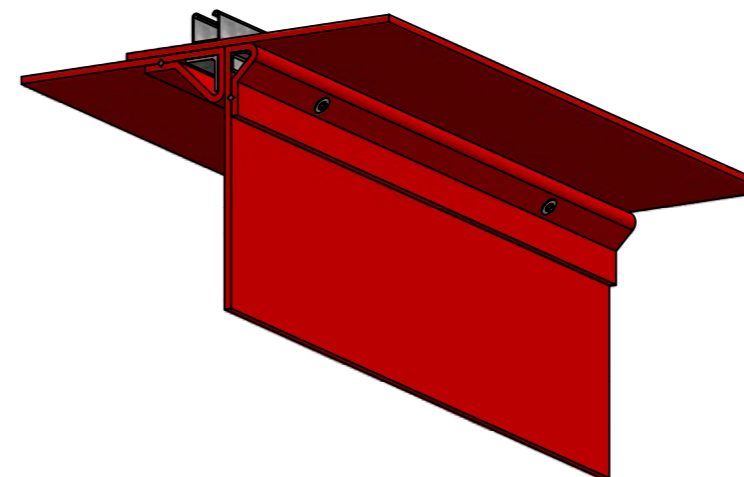
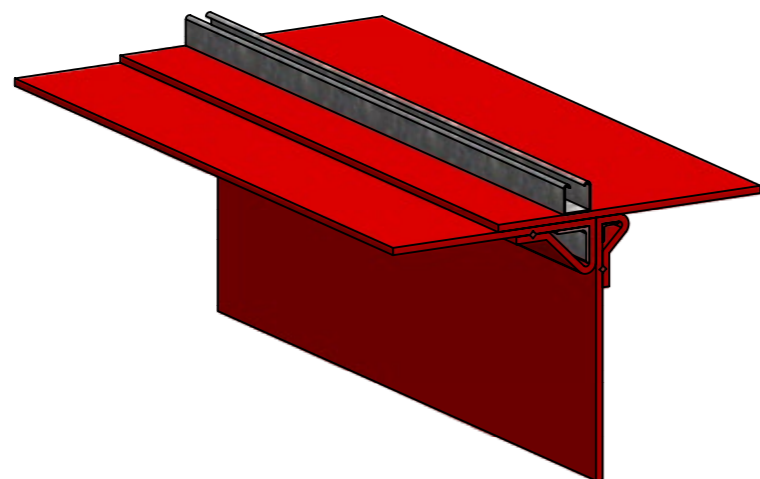
100mm MIN OVERLAP.

A BEAD OF FIREFLY® HIGH TEMPERATURE ADHESIVE

150mm NOMINAL OVERLAP

FIREFLY® 38mm TEK SCREWS AND WASHERS SECURE THE OVERLAP TO THE CLAMPING ANGLE AT 600mm CENTRES

50 x 50 x 0.7mm MIN THICK GALVANIZED ANGLE CLAMPING THE HORIZONTAL BARRIER TO THE SUPPORTING CHANNEL AND ACTING AS A SUPPORTING BASE FOR FIXING THE VERTICAL DROP



### PHOENIX - CLAMP FIX WITH VERTICAL DROP

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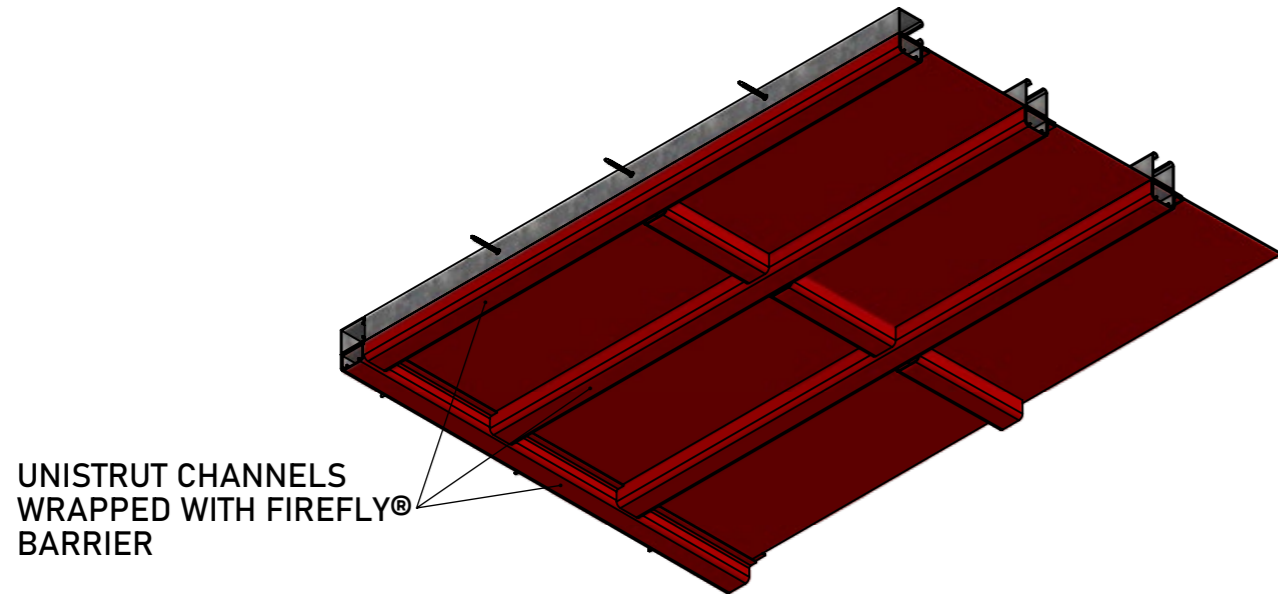
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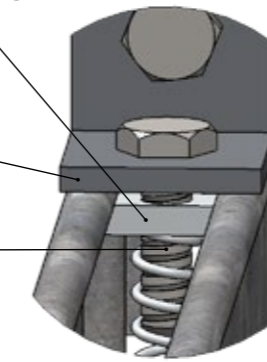


UNISTRUT CHANNELS WRAPPED WITH FIREFLY® BARRIER

UNISTRUT CHANNEL NUT WITH SPRING INSERTED FIRST AND ROTATED TO LOCK POSITION

UNISTRUT MOUNTING BRACKET

HEX BOLT SECURING THE MOUNTING BRACKET TO THE NUT

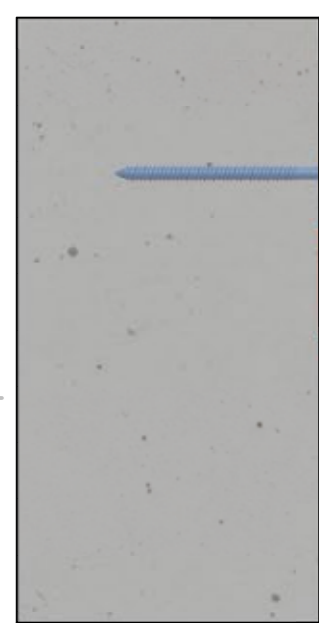
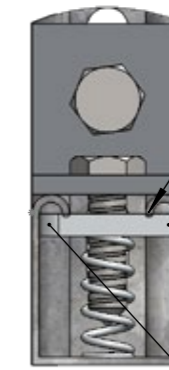


JOINING UNISTRUT'S

THE LIP OF THE UNISTRUT SLOTS INTO THE GROOVE OF THE NUT ANCHORING IT IN PLACE

LOCKING THE NUT WILL STABILIZE THE FIXING AND STRENGTHENS THE STRUCTURAL INTEGRITY OF THE UNISTRUT

CURVED EDGE ALLOWS FOR EASIER ROTATION



SUITABLE FIREFLY® FIXINGS SECURE THE EXPOSED CHANNEL TO THE WALL AT 500mm CENTRES OR AS REQUIRED TO SUPPORT LOAD

JOINED HORIZONTALLY BY UNISTRUT FRAMEWORK

JOINED HORIZONTALLY BY UNISTRUT FRAMEWORK

38mm FIREFLY® TEK SCREWS SECURE THE CLAMPING CHANNEL TO THE SUPPORTING CHANNEL AT 250mm CENTRES

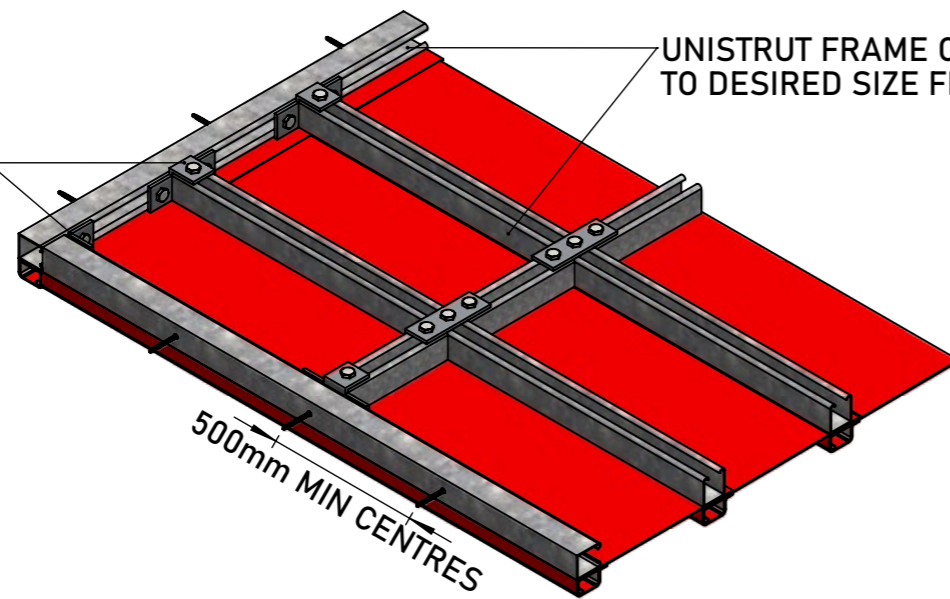
100mm OVERLAP OF FIREFLY® BARRIER

FIREFLY® HIGH TEMPERATURE ADHESIVE

150mm NOMINAL OVERLAP

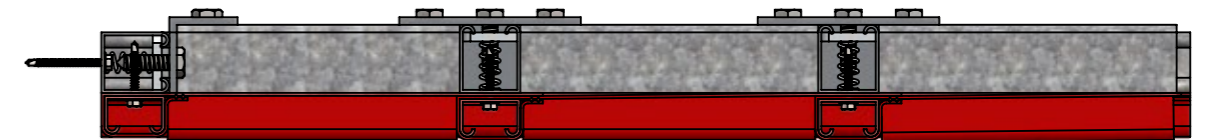
SHALLOW CHANNEL CLAMPS THE BARRIER IN PLACE BEFORE BEING WRAPPED WITH THE BARRIER

UNISTRUT FRAMEWORK JOINED TOGETHER WITH MOUNTING BRACKETS



UNISTRUT FRAME CONSTRUCTED TO DESIRED SIZE FIRST

500mm MIN CENTRES



### PHOENIX - CHANNEL EDGE FIX

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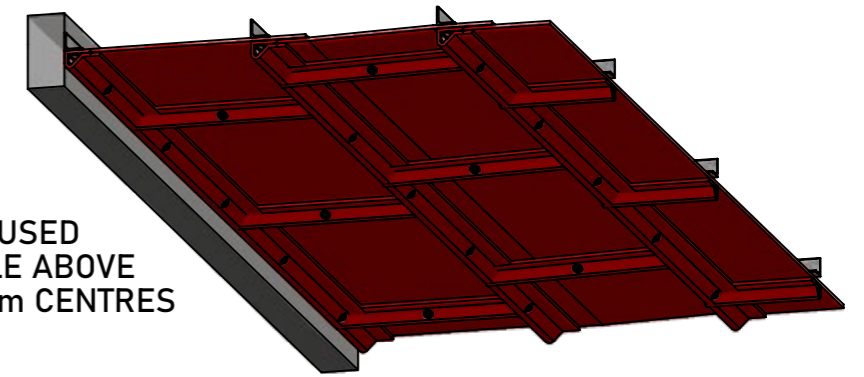
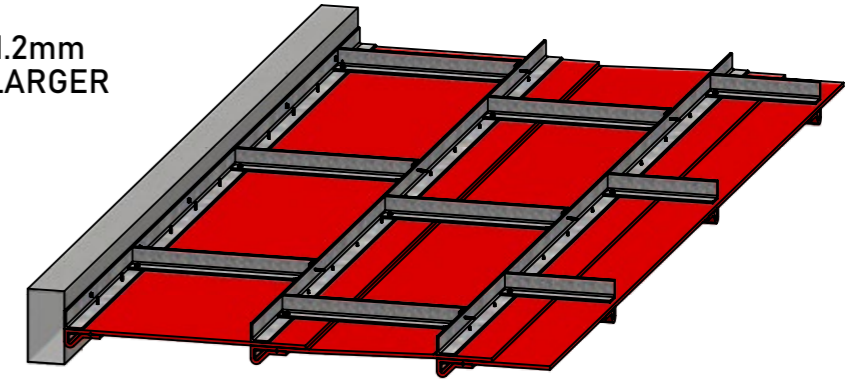
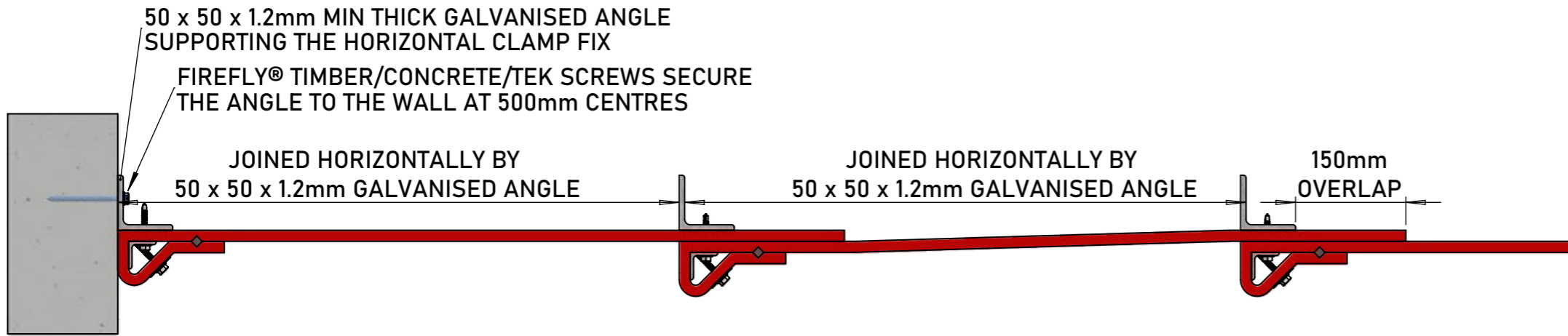
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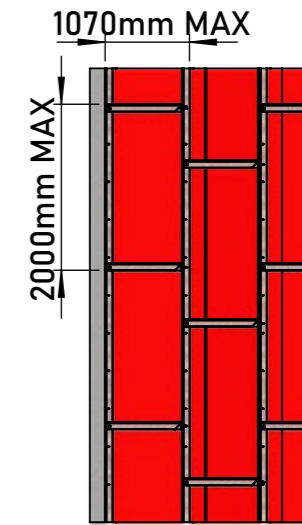
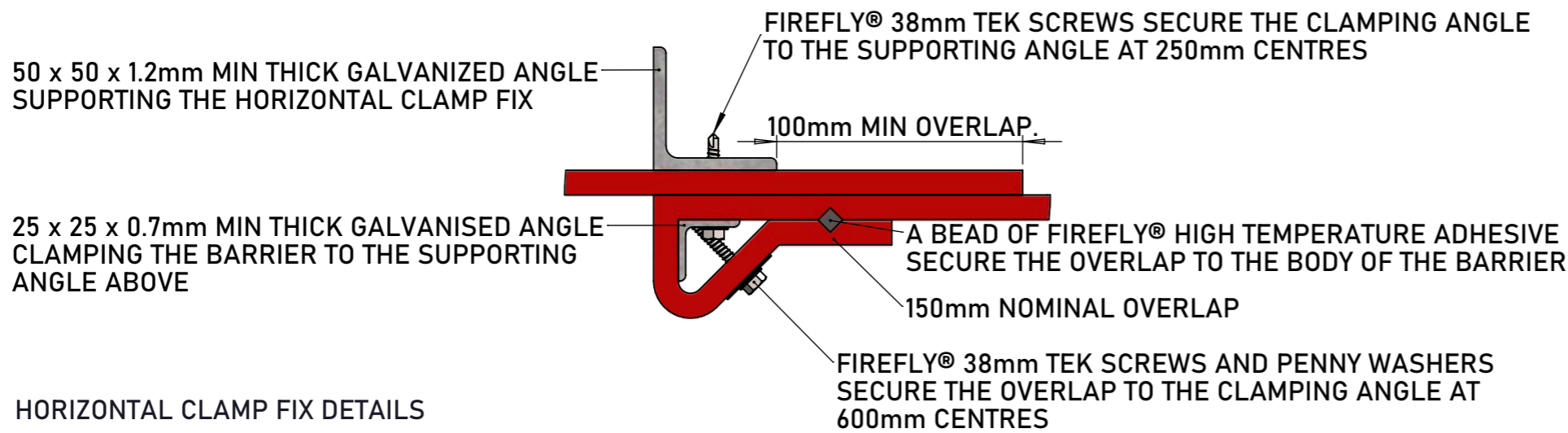
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DO NOT SCALE. IF IN DOUBT ASK!

A FRAMEWORK IS CONSTRUCTED OUT OF 50 x 50 x 1.2mm MIN THICK GALVANIZED ANGLE, IN SEGMENTS NO LARGER THAN 1070mm x 2000mm



25 x 25 x 0.7mm MIN THICK GALVANISED ANGLE IS USED TO CLAMP THE BARRIER TO THE SUPPORTING ANGLE ABOVE FIXED WITH FIREFLY® 38mm TEK SCREWS AT 250mm CENTRES



HORIZONTAL FIREFLY BARRIERS MUST BE SUPPORTED EVERY 2000mm x 1070mm

### PHOENIX - EQUAL ANGLE EDGE FIX

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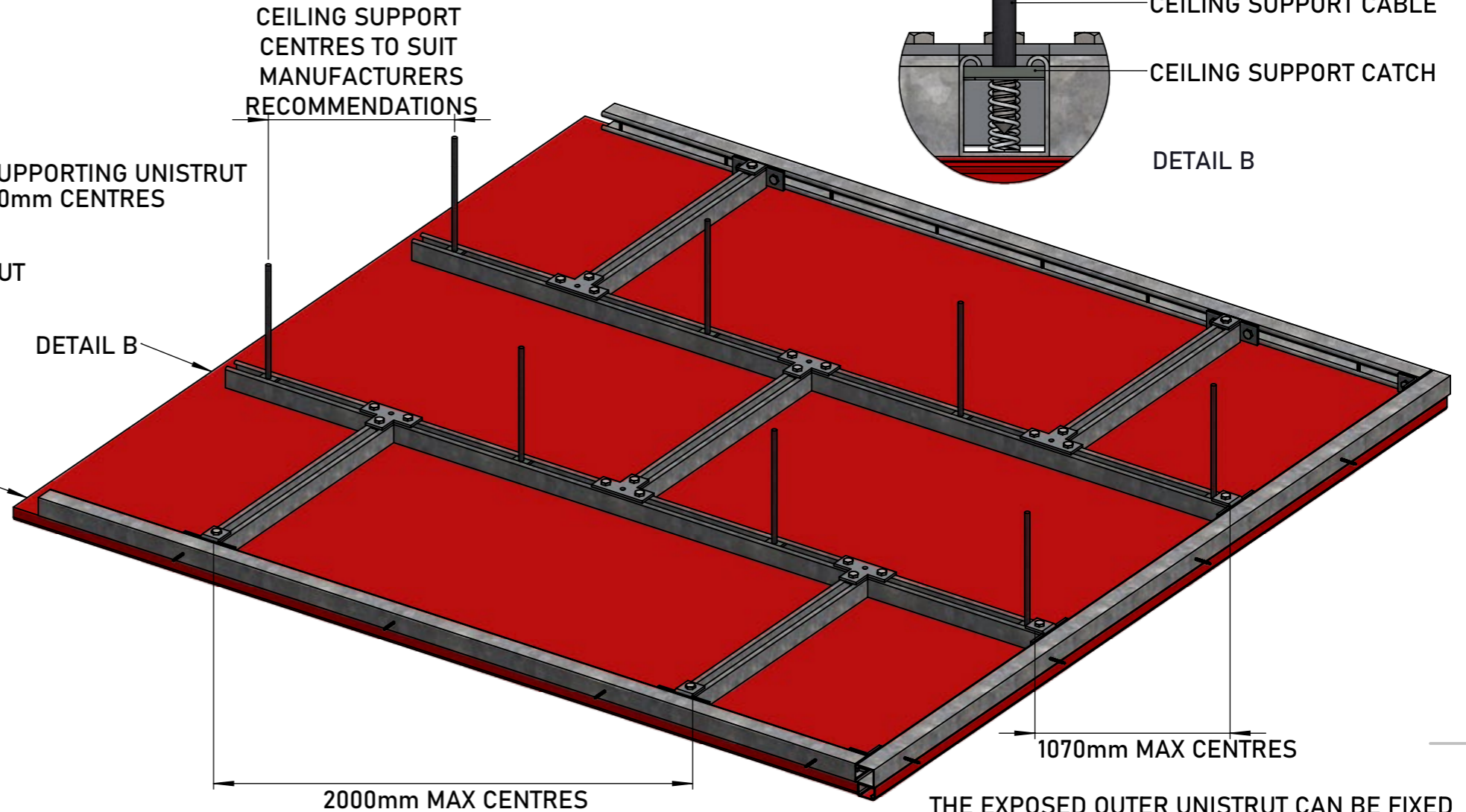
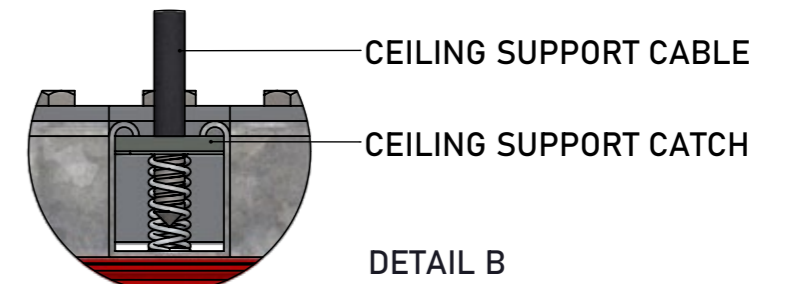
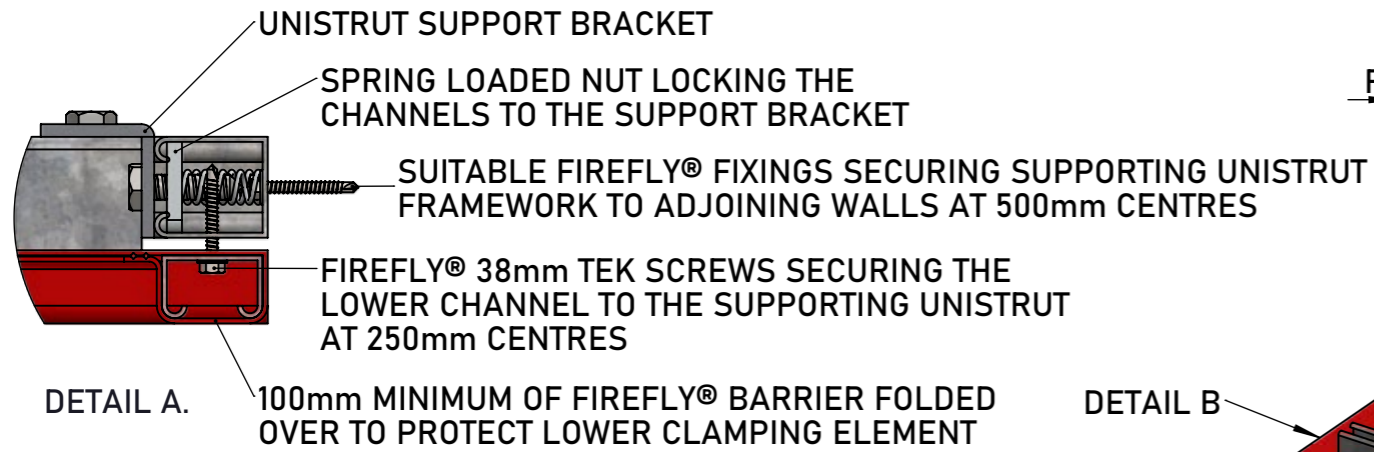
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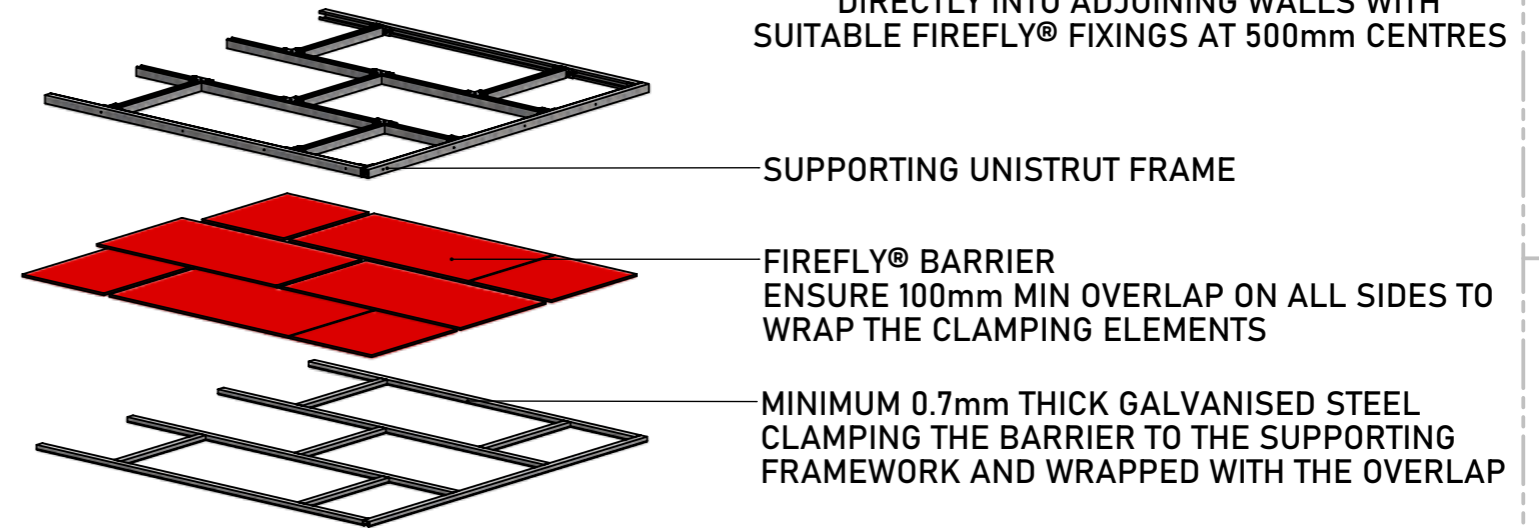
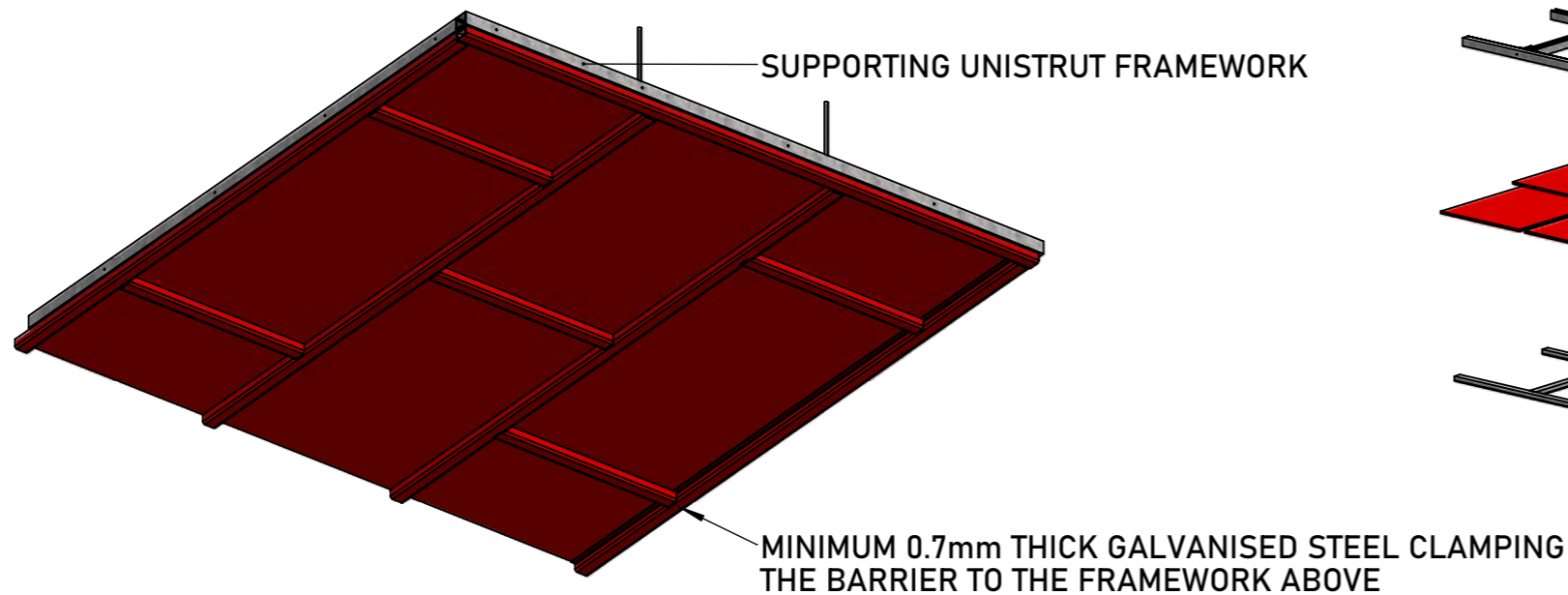


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THE EXPOSED OUTER UNISTRUT CAN BE FIXED DIRECTLY INTO ADJOINING WALLS WITH SUITABLE FIREFLY® FIXINGS AT 500mm CENTRES



### PHOENIX - SUSPENDED CEILING (CHANNEL)

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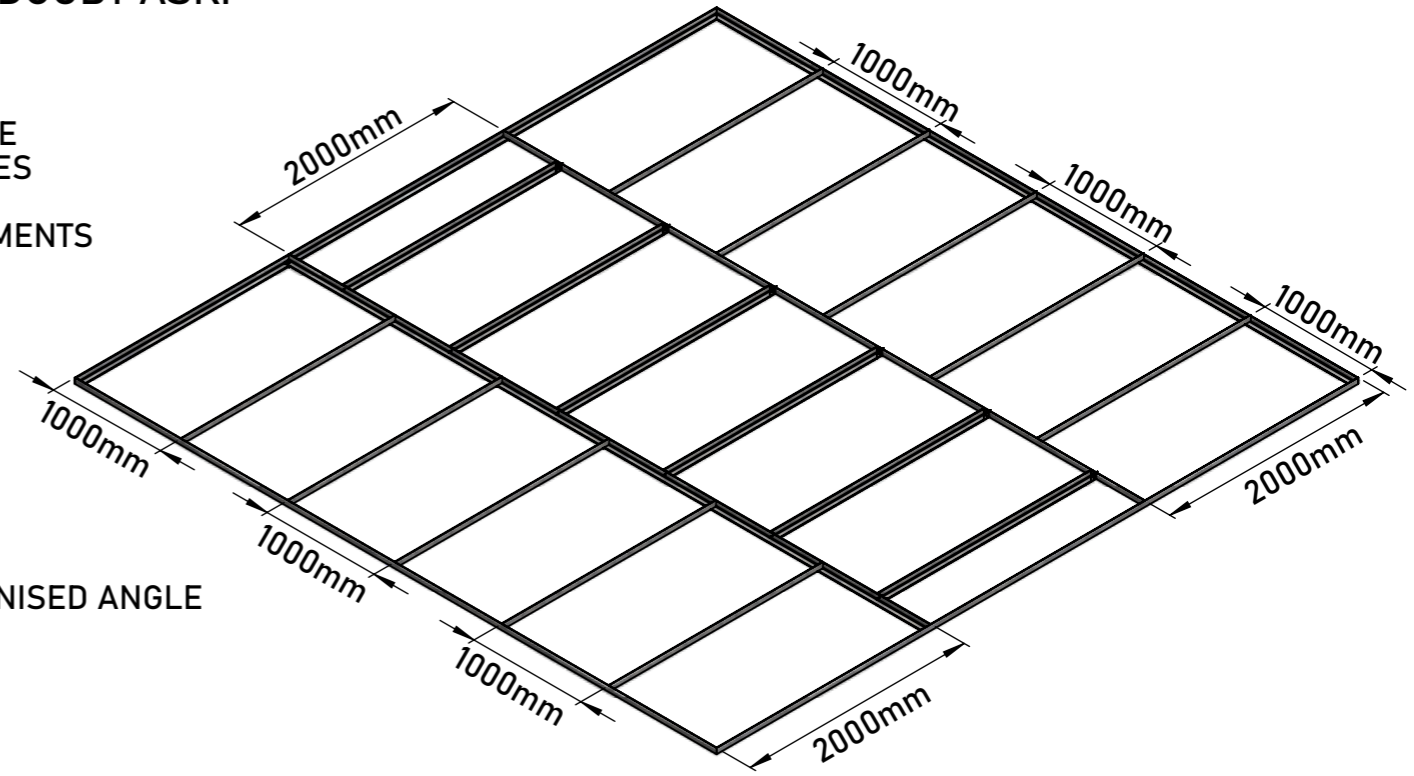
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HORIZONTAL FIREFLY® BARRIER SHOULD BE SUPPORTED BY A CLAMP FIX EVERY 2000mm x 1070mm

TO ACCOMMODATE THIS A FRAMEWORK IS CONSTRUCTED OUT OF 50 x 50 x 1.2mm GALVANISED ANGLE COVERING THE DESIRED AREA AND FIXED INTO THE WALL WITH SUITABLE FIXINGS AT 500mm CENTRES

THE FRAMEWORK IS THEN SEGMENTED WITH 50 x 50 x 1.2mm GALVANISED ANGLE INTO 2m x 1m SEGMENTS SEGMENTS CAN BE STAGGERED TO INCREASE STABILITY

FIREFLY® BARRIER IS CLAMPED TO EACH SEGMENT WITH A 25 x 25 x 0.7mm GALVANISED ANGLE AND A 100mm OVERLAP OF BARRIER EXTENDING INTO THE NEXT CLAMPING ANGLE



CLAMPING ANGLE DETAIL

SUITABLE TEK SCREWS SECURE THE CLAMPING ANGLE TO THE SUPPORTING ANGLE AT 250mm CENTRES

25 x 25 x 0.7mm MIN THICK GALVANISED ANGLE CLAMPING BARRIER TO THE SUPPORTING ANGLE ABOVE

100mm MIN OVERLAP, 150mm NOMINAL OVERLAP

50 x 50 x 1.2mm MIN THICK GALVANISED ANGLE SUPPORTING THE CLAMP FIX

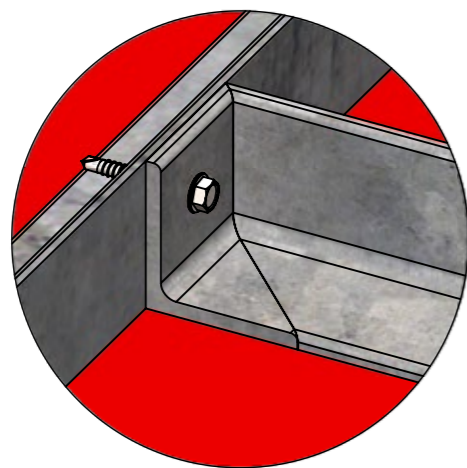
100mm OVERLAP

A BEAD OF FIREFLY® HIGH TEMPERATURE ADHESIVE SECURE THE OVERLAP TO THE BODY OF THE BARRIER

SUITABLE FIREFLY® TEK SCREWS AND WASHERS SECURE THE OVERLAP TO THE CLAMPING ANGLE AT 600mm CENTRES

FRAMEWORK FIXING DETAILS

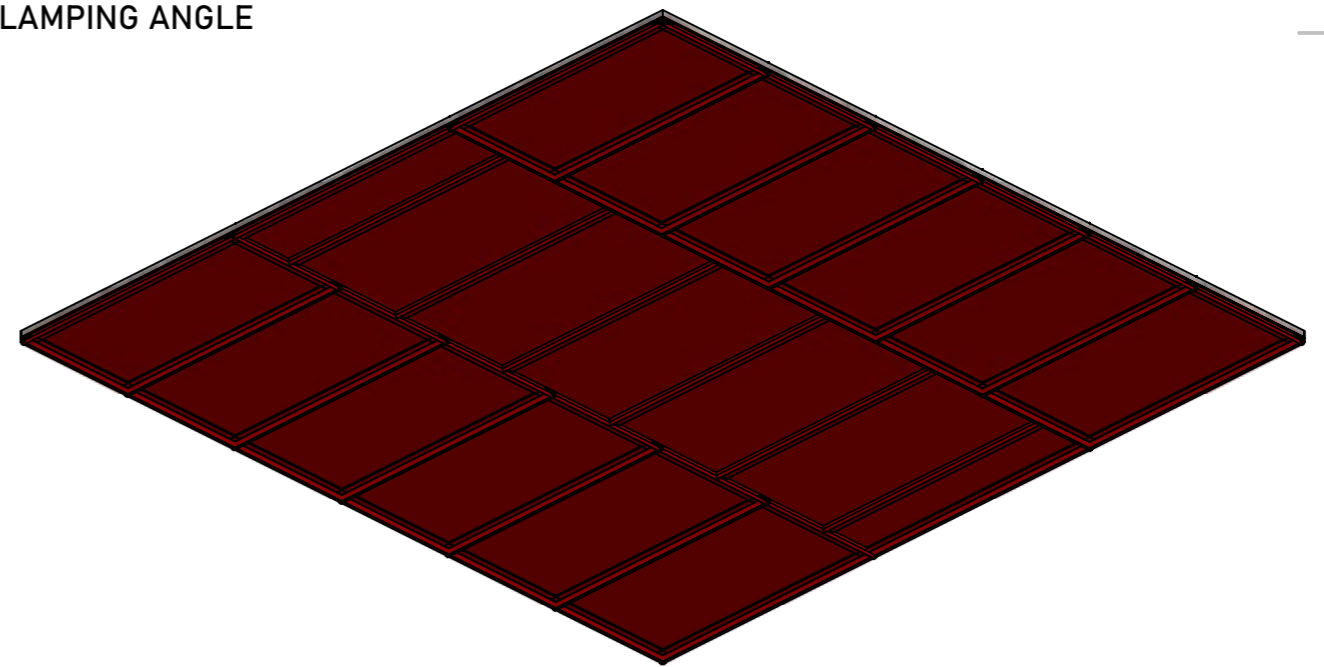
THE FRAMEWORK IS CONSTRUCTED BY JOINING THE SUPPORTING ANGLE WITH SUITABLE TEK SCREWS. IF NO SUITABLE FACE FIXING IS AVAILABLE THE ANGLE CAN BE SNIPPED AND BENT TO CREATE A SUITABLE FIXING FACE



SNIPPED ANGLE FIXING



FLAT ANGLE FIXING



ZEUS LITE - SUSPENDED CEILING

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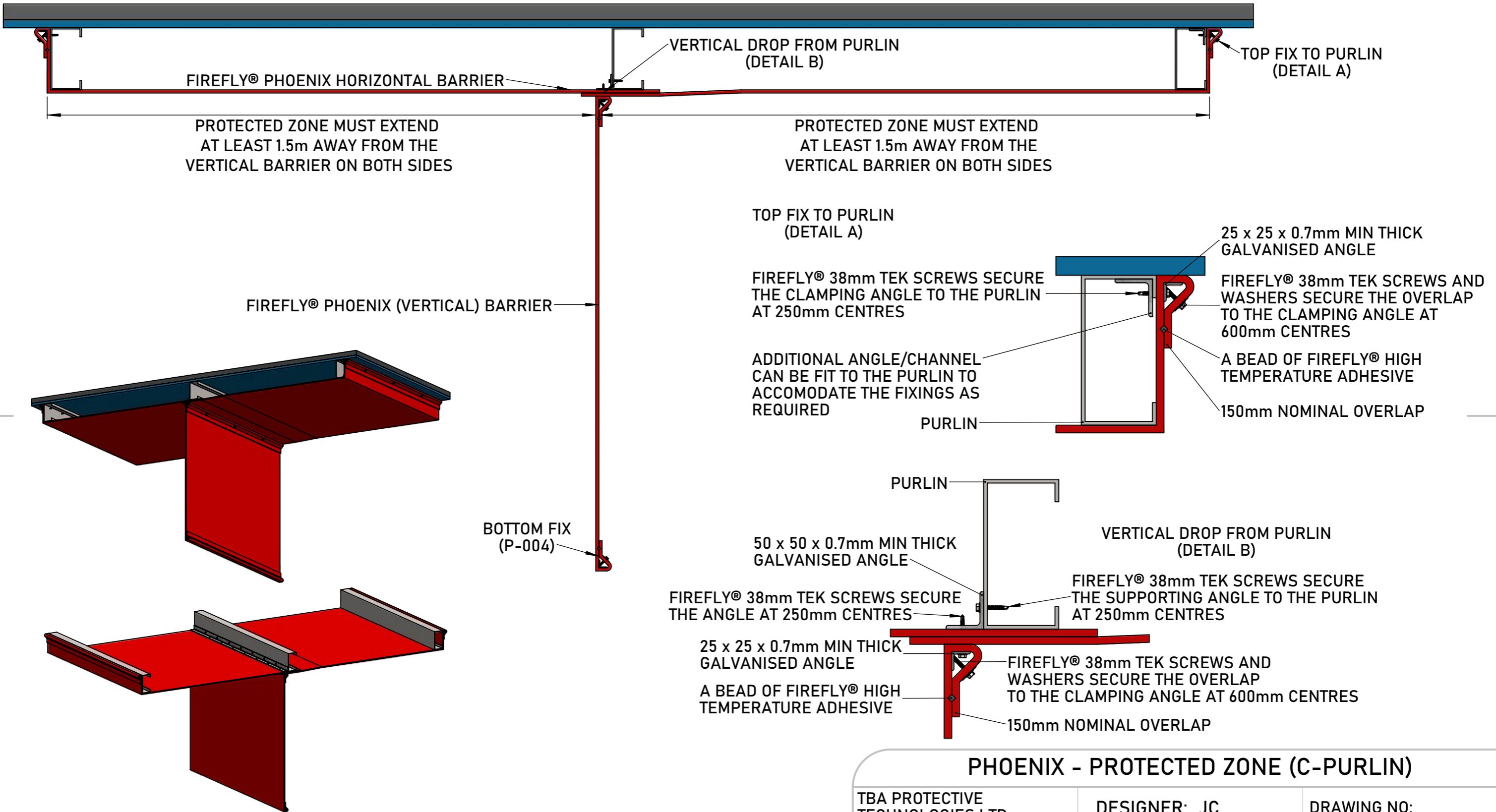
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HORIZONTAL FIREFLY® BARRIER MUST BE SUPPORTED EVERY 1070mm x 2000mm

FIRESTOPPING MUST EXTEND TO ANY EAVES

DO NOT SCALE. IF IN DOUBT ASK!

PROTECTED ZONE MUST EXTEND 1.5m IN BOTH DIRECTIONS OR 3m IN A SINGLE DIRECTION  
INTERNATIONAL GUIDELINES MAY DIFFER ON PROTECTED ZONES  
IT IS THE INSTALLERS RESPONSIBILITY TO ENSURE LOCAL BUILDING REGULATIONS ARE MET



**PHOENIX - PROTECTED ZONE (C-PURLIN)**

<b>TBA PROTECTIVE TECHNOLOGIES LTD</b> Unit 3, Transpennine Trading Estate, Gorrells Way Rochdale, OL11 2PX, United Kingdom T: +44 (0)1706 758 817 E: Technical@TBAFIREFLY.com W: WWW.TBAFIREFLY.COM	DESIGNER: JC	DRAWING NO:
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	DATE: 28/08/2023	REVISION: 2
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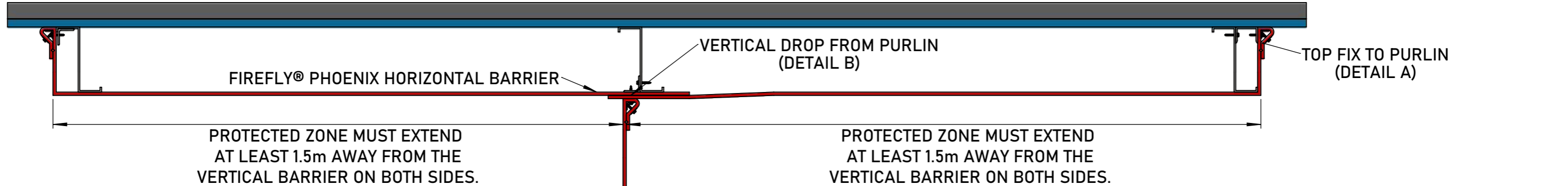


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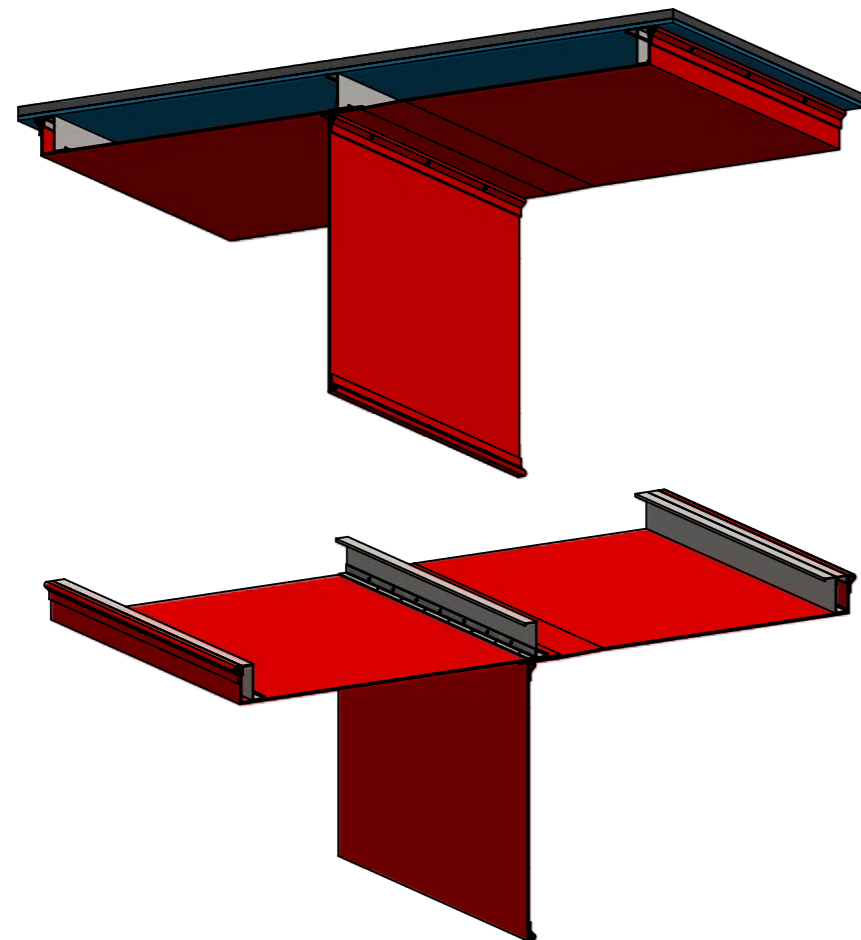
HORIZONTAL FIREFLY® BARRIER MUST BE SUPPORTED EVERY 1070mm x 2000mm

PROTECTED ZONE MUST EXTEND 1.5m IN BOTH DIRECTIONS OR 3m IN A SINGLE DIRECTION  
INTERNATIONAL GUIDELINES MAY DIFFER ON PROTECTED ZONES  
IT IS THE INSTALLERS RESPONSIBILITY TO ENSURE LOCAL BUILDING REGULATIONS ARE MET



PROTECTED ZONE MUST EXTEND AT LEAST 1.5m AWAY FROM THE VERTICAL BARRIER ON BOTH SIDES.

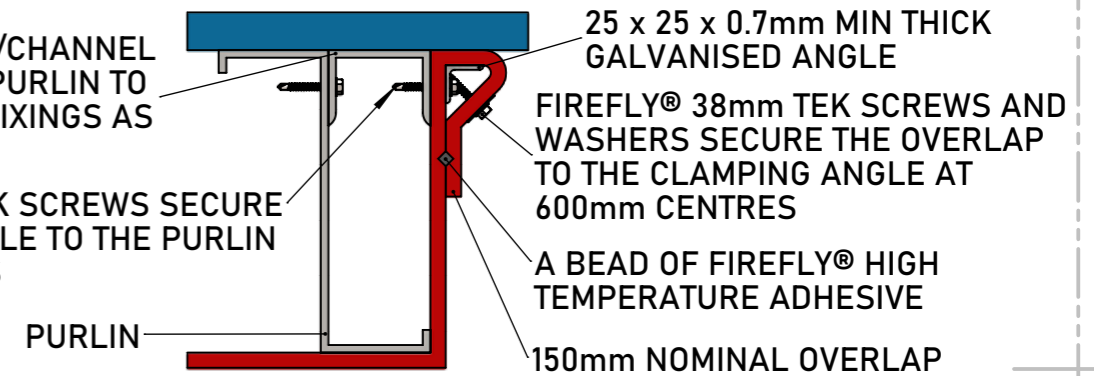
PROTECTED ZONE MUST EXTEND AT LEAST 1.5m AWAY FROM THE VERTICAL BARRIER ON BOTH SIDES.



TOP FIX TO PURLIN (DETAIL A)

ADDITIONAL ANGLE/CHANNEL CAN BE FIT TO THE PURLIN TO ACCOMODATE THE FIXINGS AS REQUIRED

FIREFLY® 38mm TEK SCREWS SECURE THE CLAMPING ANGLE TO THE PURLIN AT 250mm CENTRES



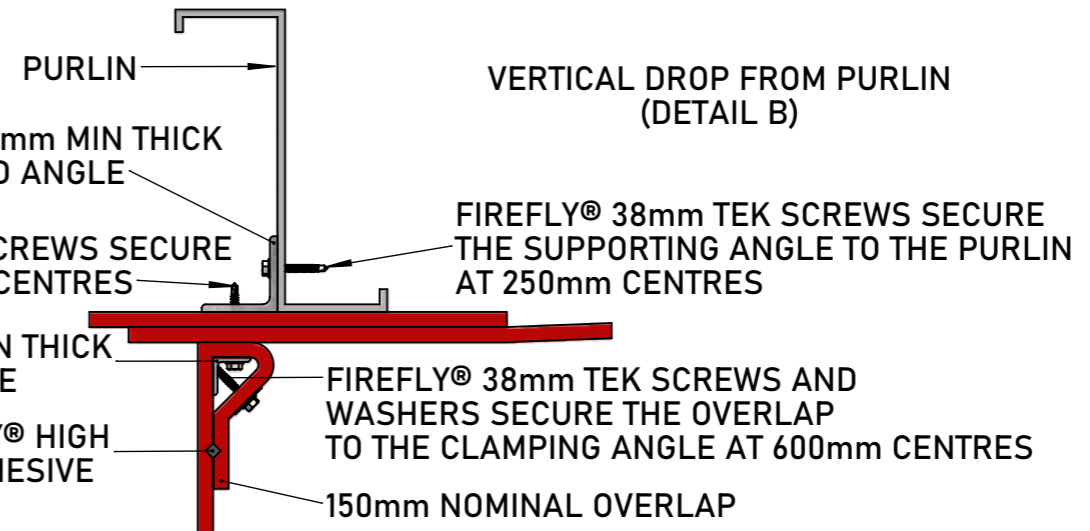
BOTTOM FIX (P-004)

50 x 50 x 0.7mm MIN THICK GALVANISED ANGLE

FIREFLY® 38mm TEK SCREWS SECURE THE ANGLE AT 250mm CENTRES

25 x 25 x 0.7mm MIN THICK GALVANISED ANGLE

A BEAD OF FIREFLY® HIGH TEMPERATURE ADHESIVE



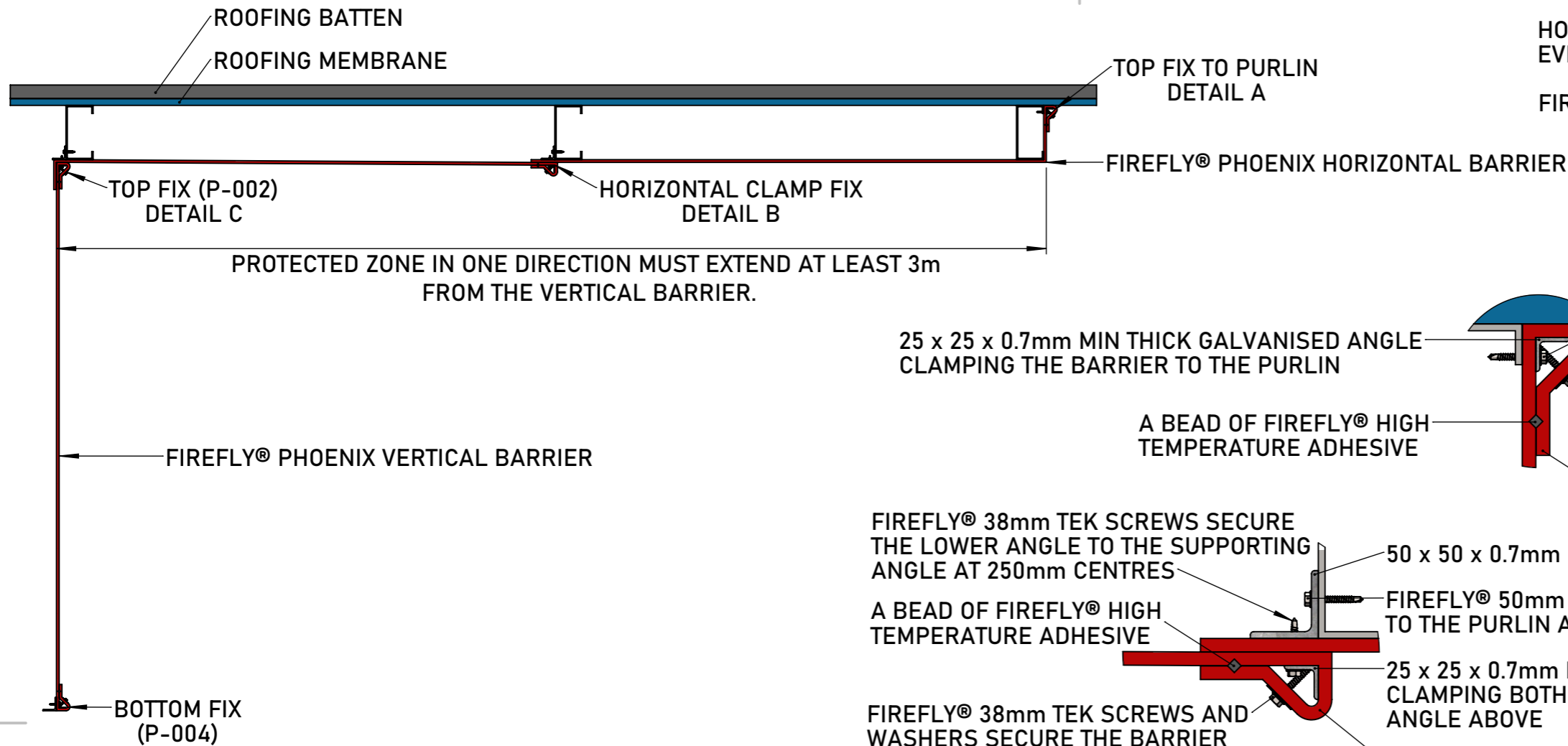
PHOENIX - PROTECTED ZONE (Z-PURLIN)

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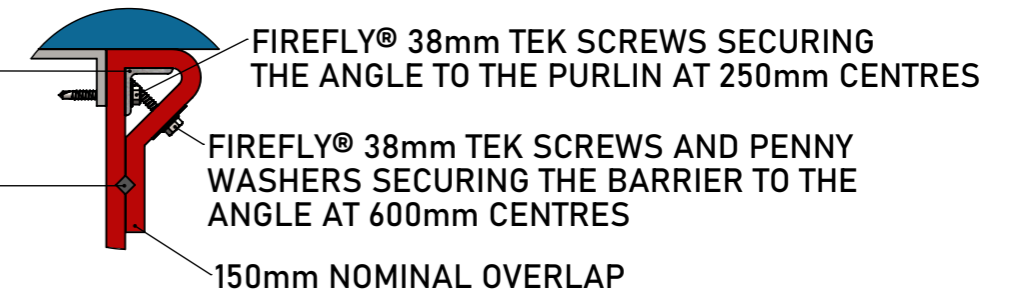
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HORIZONTAL FIREFLY® BARRIER MUST BE SUPPORTED EVERY 1070mm x 2000mm  
FIRESTOPPING MUST EXTEND TO ANY EAVES

DETAIL A  
TOP FIX TO TIMBER

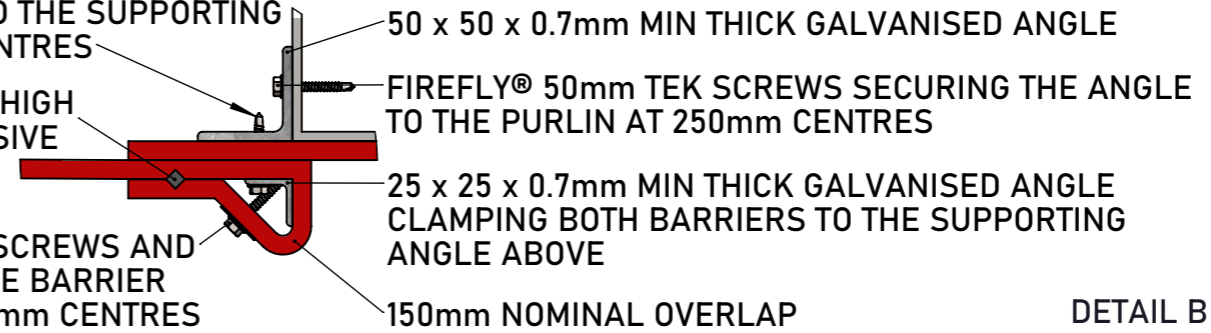
25 x 25 x 0.7mm MIN THICK GALVANISED ANGLE CLAMPING THE BARRIER TO THE PURLIN



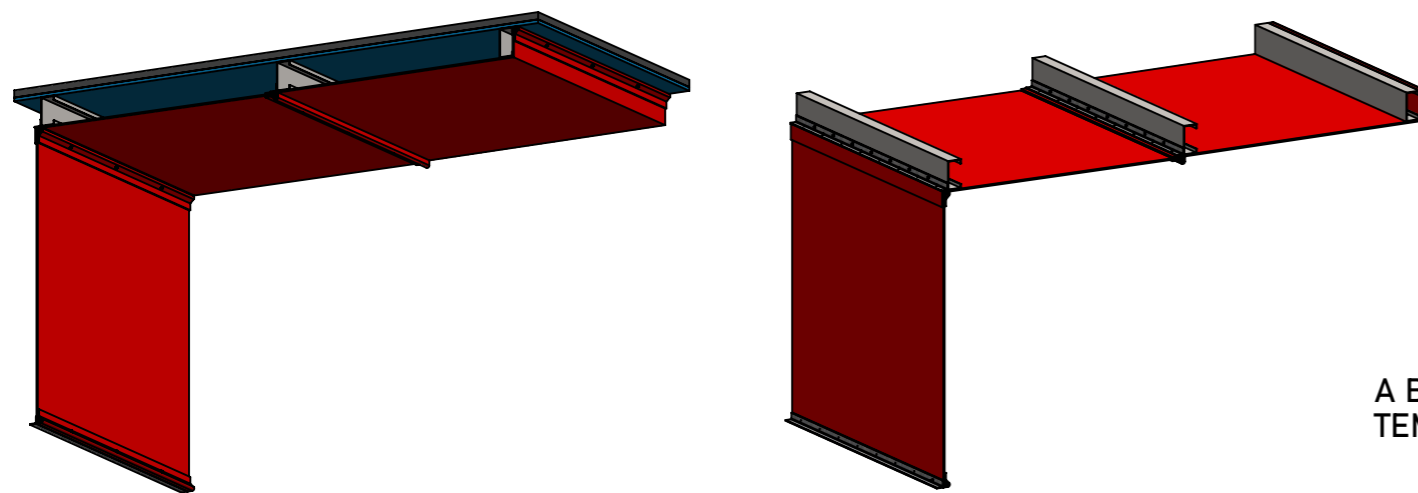
A BEAD OF FIREFLY® HIGH TEMPERATURE ADHESIVE

FIREFLY® 38mm TEK SCREWS SECURE THE LOWER ANGLE TO THE SUPPORTING ANGLE AT 250mm CENTRES

A BEAD OF FIREFLY® HIGH TEMPERATURE ADHESIVE

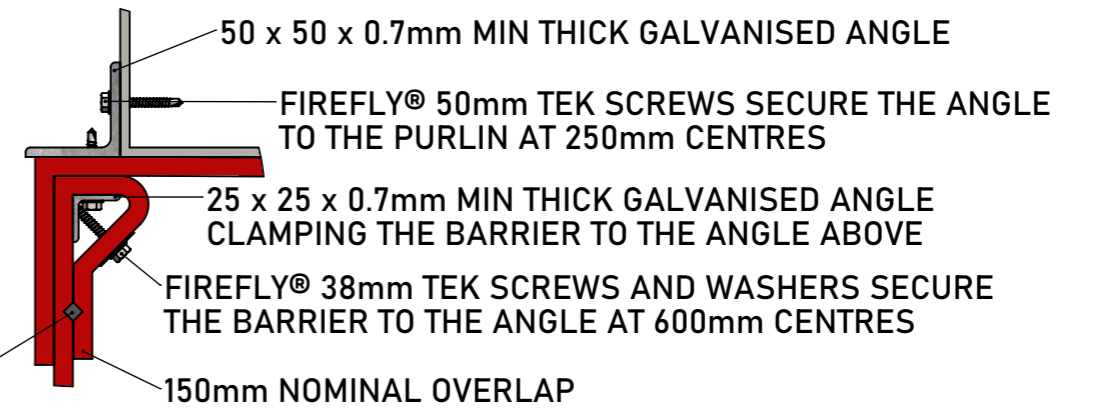


DETAIL B  
HORIZONTAL CLAMP FIX



DETAIL C  
TOP FIX

A BEAD OF FIREFLY® HIGH TEMPERATURE ADHESIVE



PHOENIX - RESTRICTED ACCESS PROTECTED ZONE

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	DATE: 28/08/2023	REVISION: 2
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PROTECTED ZONE MUST EXTEND 1.5m IN BOTH DIRECTIONS OR 3m IN A SINGLE DIRECTION  
INTERNATIONAL GUIDELINES MAY DIFFER ON PROTECTED ZONES  
IT IS THE INSTALLERS RESPONSIBILITY TO ENSURE LOCAL BUILDING REGULATIONS ARE MET

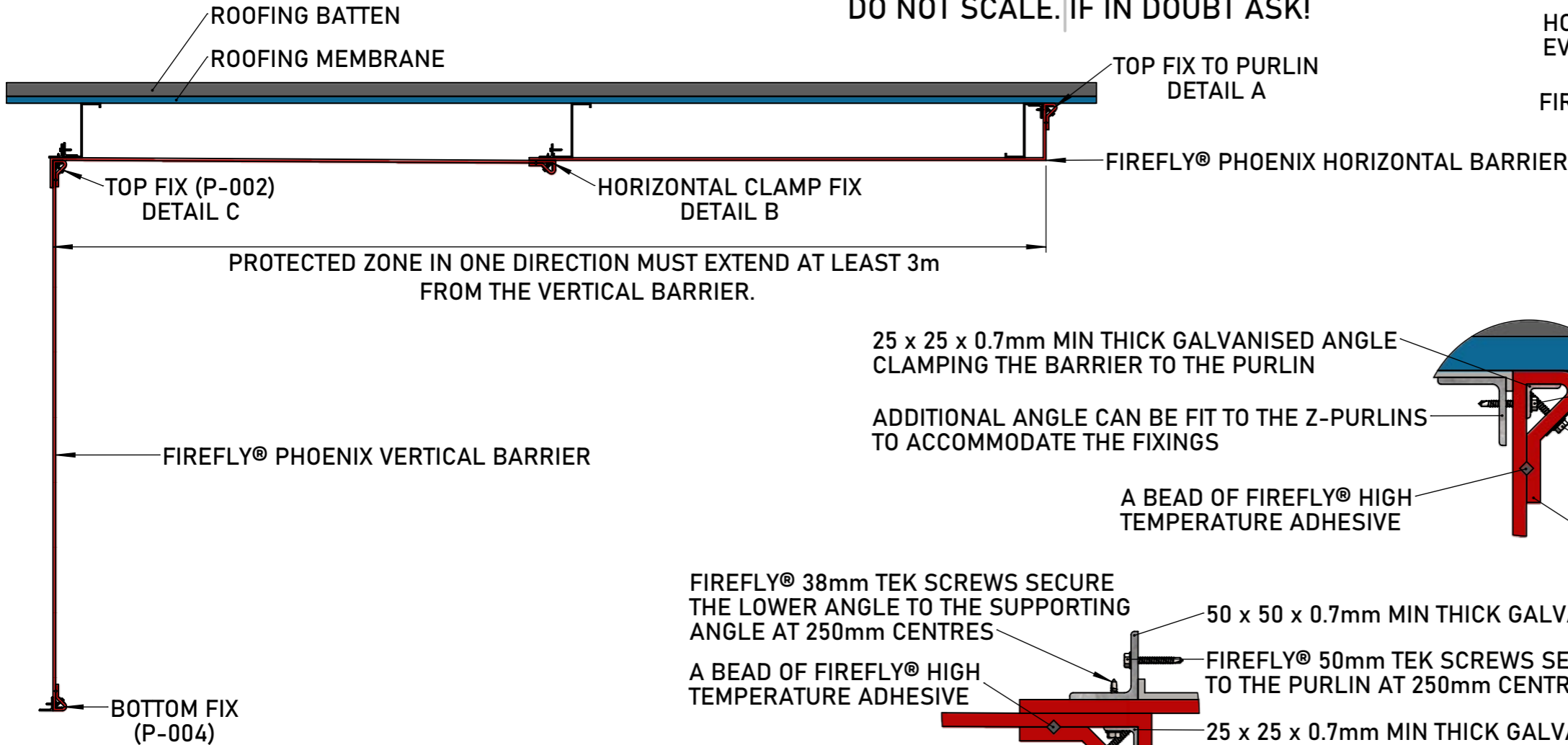


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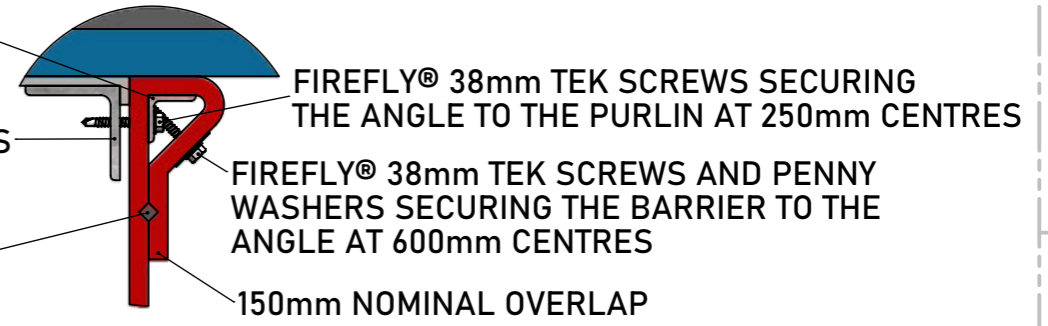
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HORIZONTAL FIREFLY® BARRIER MUST BE SUPPORTED EVERY 1070mm x 2000mm

FIRESTOPPING MUST EXTEND TO ANY EAVES

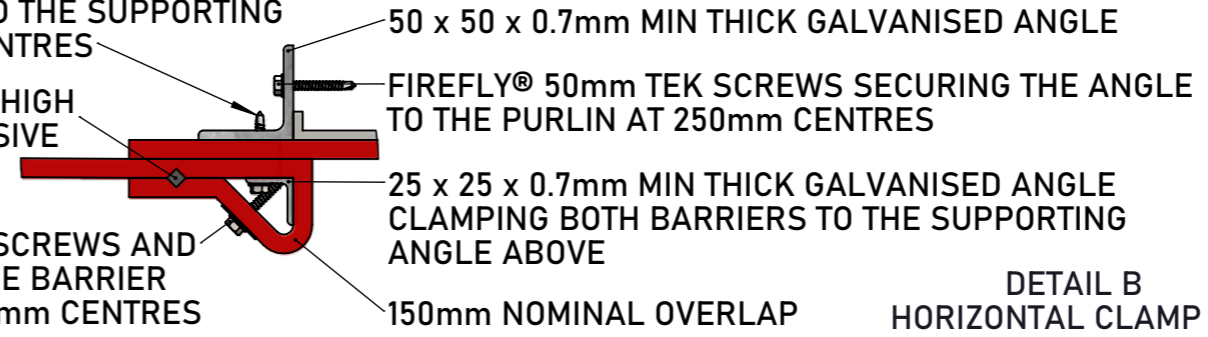


25 x 25 x 0.7mm MIN THICK GALVANISED ANGLE CLAMPING THE BARRIER TO THE PURLIN  
 ADDITIONAL ANGLE CAN BE FIT TO THE Z-PURLINS TO ACCOMMODATE THE FIXINGS

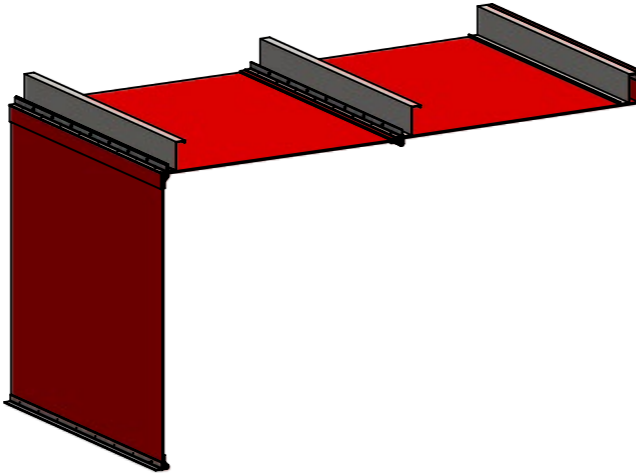
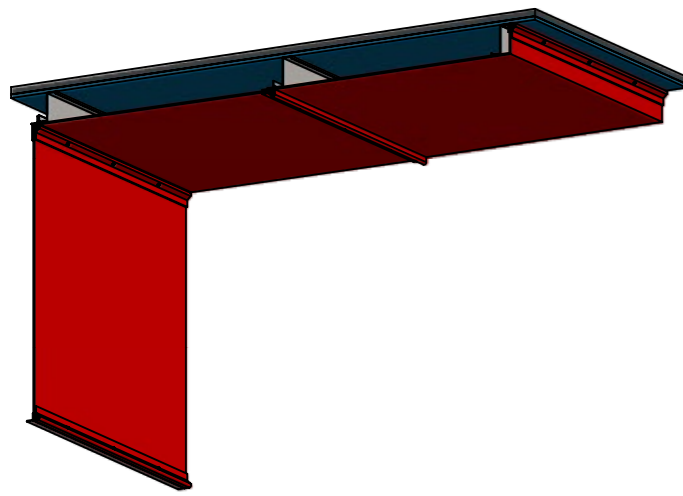


FIREFLY® 38mm TEK SCREWS SECURE THE LOWER ANGLE TO THE SUPPORTING ANGLE AT 250mm CENTRES

A BEAD OF FIREFLY® HIGH TEMPERATURE ADHESIVE



FIREFLY® 38mm TEK SCREWS AND WASHERS SECURE THE BARRIER TO THE ANGLE AT 600mm CENTRES



ADDITIONAL ANGLE CAN BE FIT TO THE Z-PURLINS TO ACCOMMODATE THE FIXINGS



A BEAD OF FIREFLY® HIGH TEMPERATURE ADHESIVE

PROTECTED ZONE MUST EXTEND 1.5m IN BOTH DIRECTIONS OR 3m IN A SINGLE DIRECTION  
 INTERNATIONAL GUIDELINES MAY DIFFER ON PROTECTED ZONES  
 IT IS THE INSTALLERS RESPONSIBILITY TO ENSURE LOCAL BUILDING REGULATIONS ARE MET

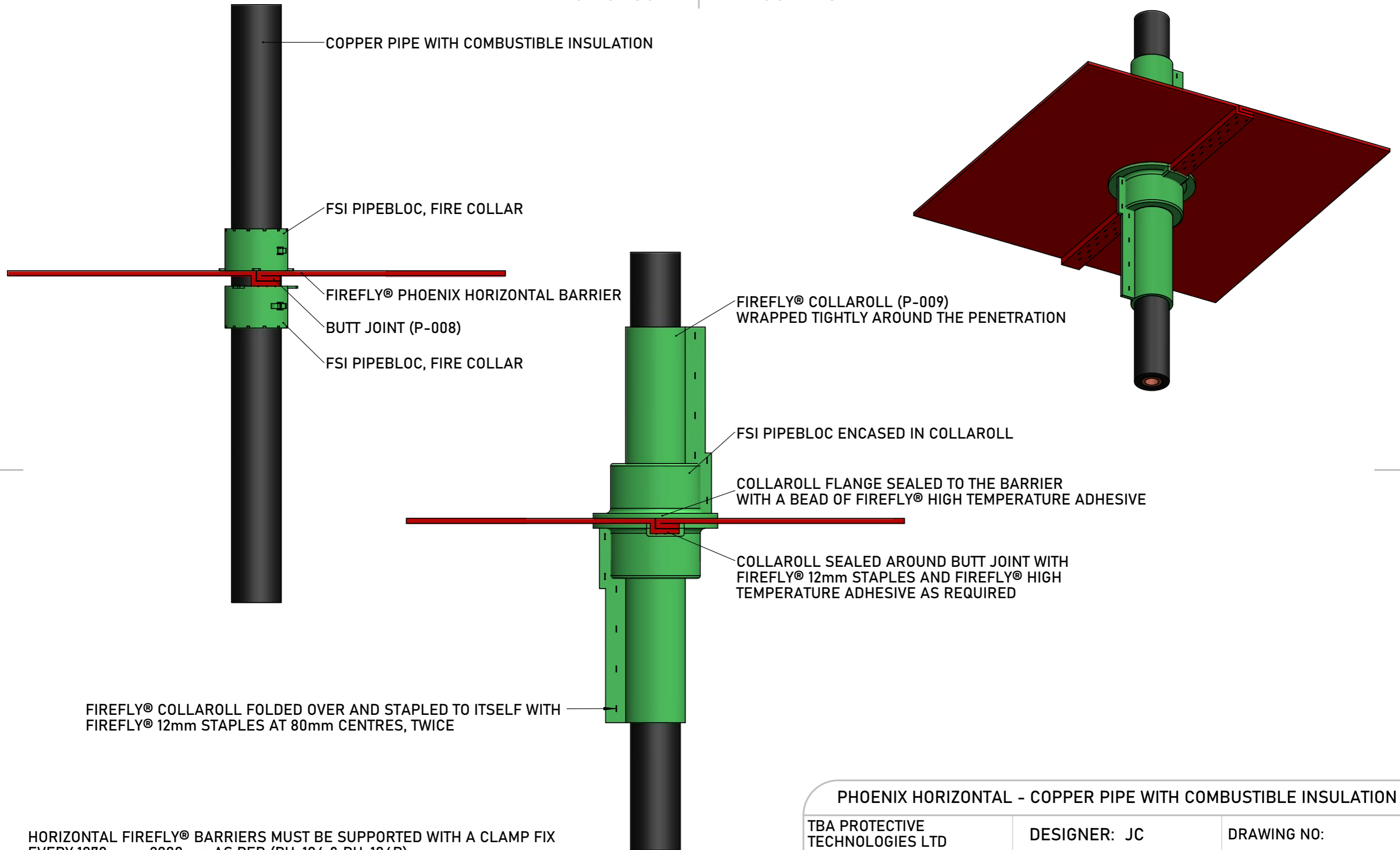


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ZEUS LITE - RESTRICTED ACCESS PROTECTED ZONE

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FIREFLY® COLLAROLL FOLDED OVER AND STAPLED TO ITSELF WITH FIREFLY® 12mm STAPLES AT 80mm CENTRES, TWICE

HORIZONTAL FIREFLY® BARRIERS MUST BE SUPPORTED WITH A CLAMP FIX EVERY 1070mm x 2000mm AS PER (PH-104 & PH-104B)

PHOENIX HORIZONTAL - COPPER PIPE WITH COMBUSTIBLE INSULATION

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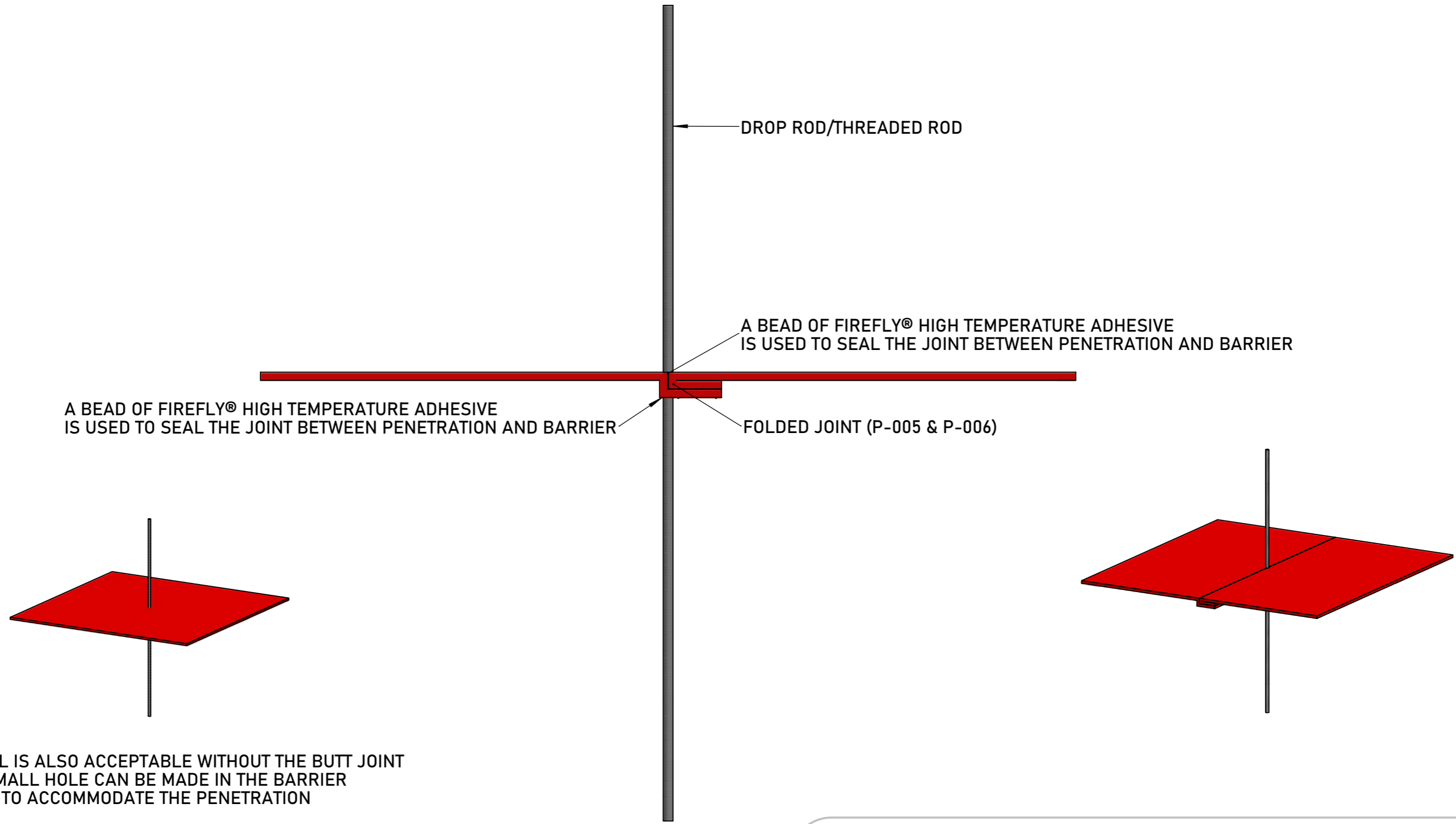
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HORIZONTAL FIREFLY® BARRIERS MUST BE SUPPORTED WITH A CLAMP FIX EVERY 1070mm x 2000mm AS PER (PH-104 & PH-104B)



THIS DETAIL IS ALSO ACCEPTABLE WITHOUT THE BUTT JOINT  
A SMALL HOLE CAN BE MADE IN THE BARRIER  
TO ACCOMMODATE THE PENETRATION

### PHOENIX HORIZONTAL - THREADED DROP ROD

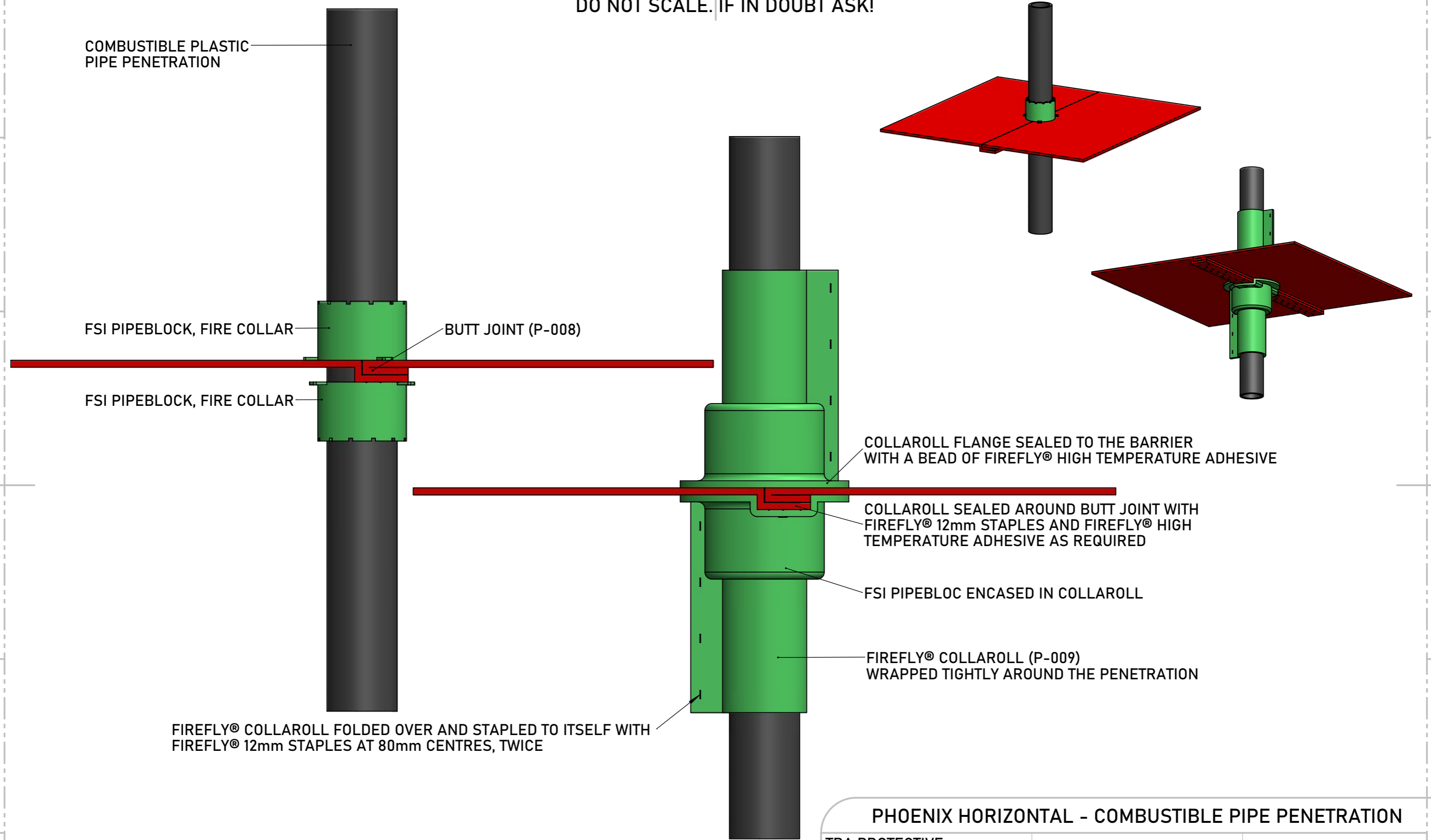
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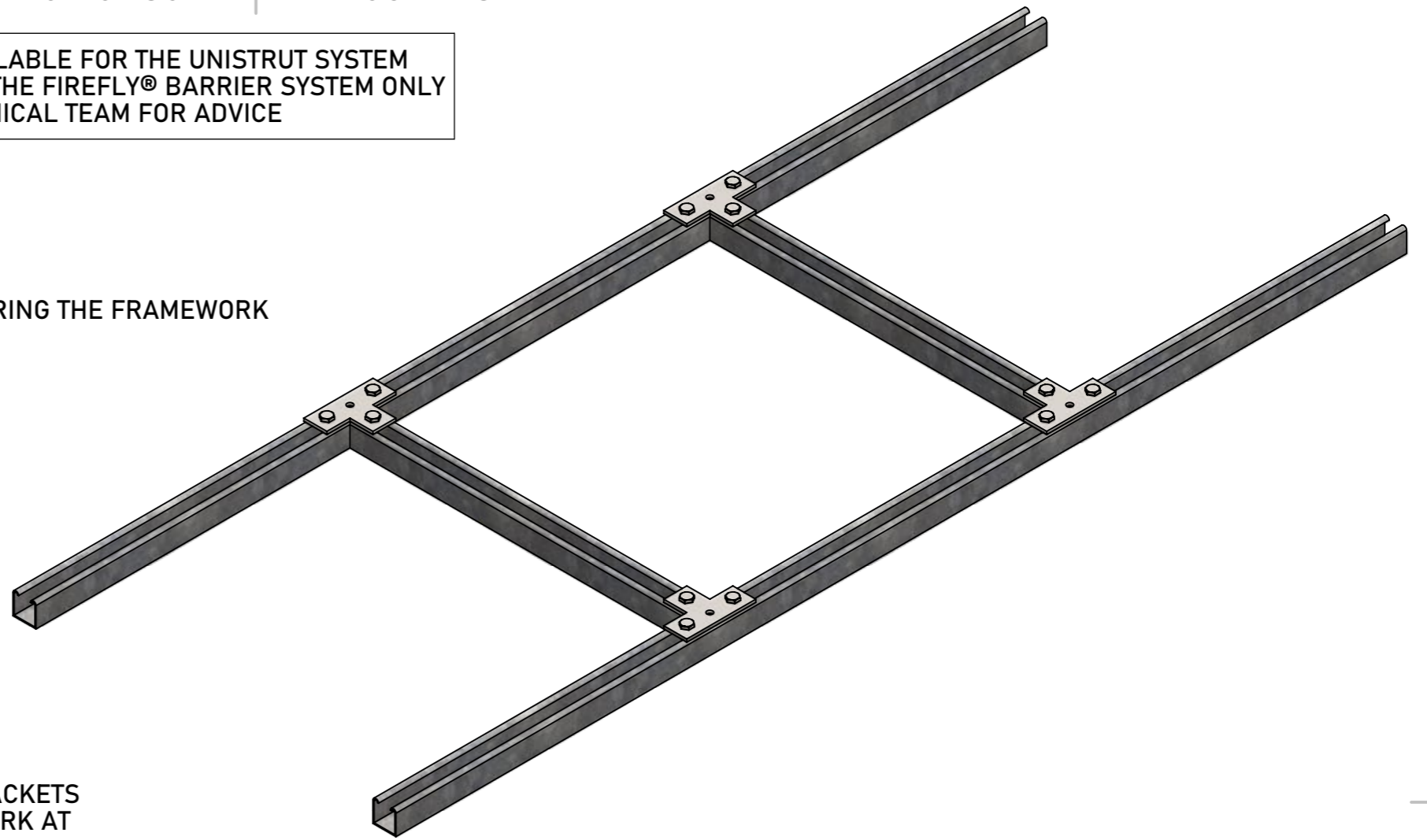
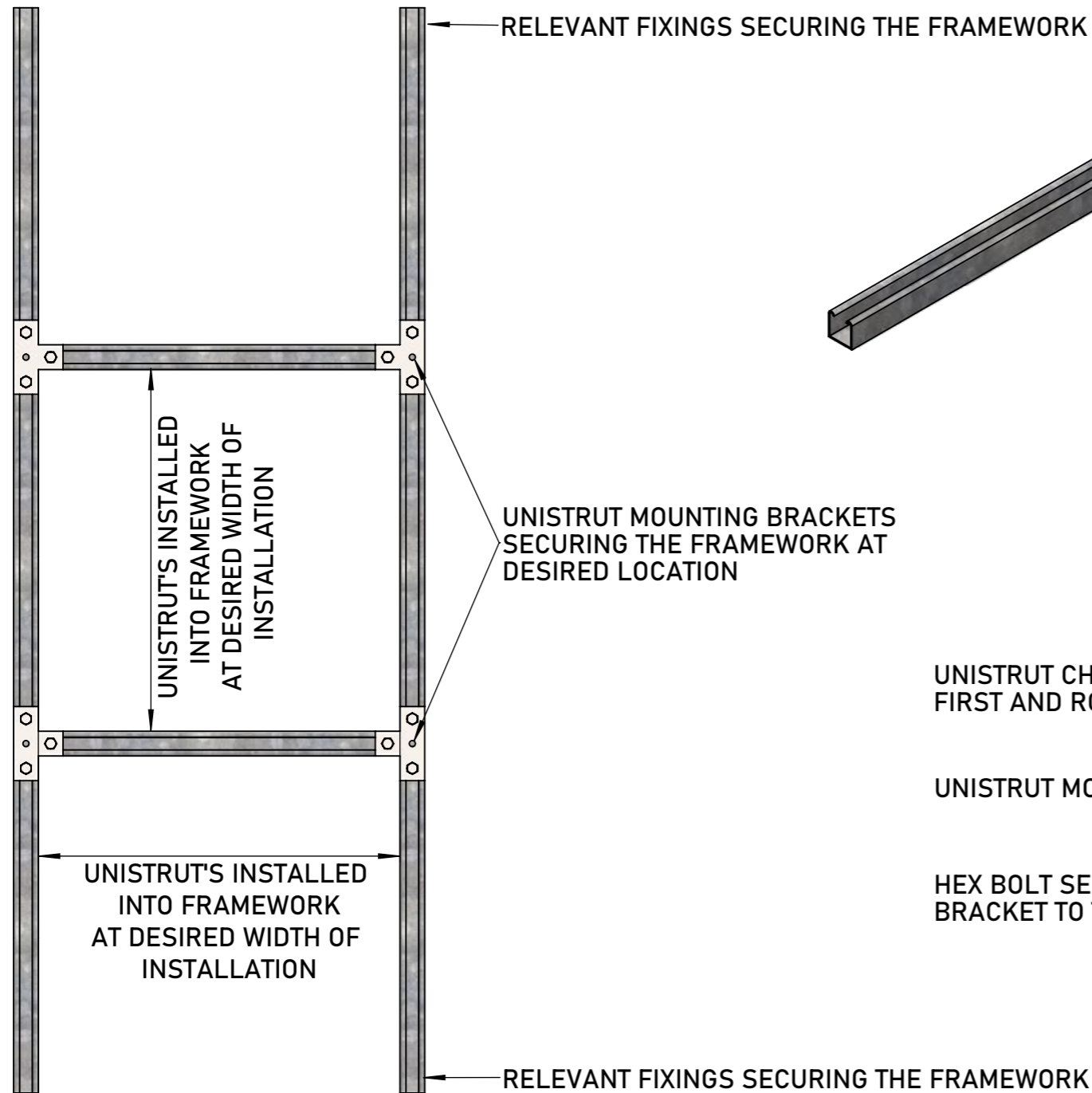
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PHOENIX HORIZONTAL - COMBUSTIBLE PIPE PENETRATION

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THERE IS A WIDE VARIETY OF FIXING AND INSTALLATION METHODS AVAILABLE FOR THE UNISTRUT SYSTEM  
 THESE INSTRUCTIONS ARE INTENDED FOR FRAMEWORK AND SUPPORT OF THE FIREFLY® BARRIER SYSTEM ONLY  
 FOR MORE BESPOKE PROJECTS PLEASE CONTACT OUR TECHNICAL TEAM FOR ADVICE

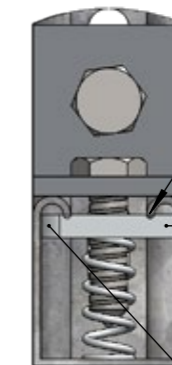
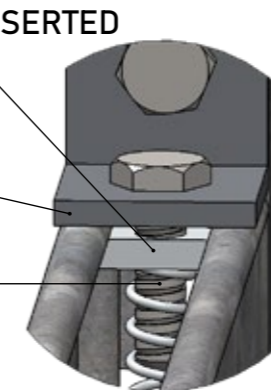


JOINING UNISTRUT'S

UNISTRUT CHANNEL NUT WITH SPRING INSERTED FIRST AND ROTATED TO LOCK POSITION

UNISTRUT MOUNTING BRACKET

HEX BOLT SECURING THE MOUNTING BRACKET TO THE NUT



THE LIP OF THE UNISTRUT SLOTS INTO THE GROOVE OF THE NUT ANCHORING IT IN PLACE

LOCKING THE NUT WILL STABILIZE THE FIXING AND STRENGTHENS THE STRUCTURAL INTEGRITY OF THE UNISTRUT

CURVED EDGE ALLOWS FOR EASIER ROTATION

PHOENIX HORIZONTAL - HORIZONTAL FRAMEWORK

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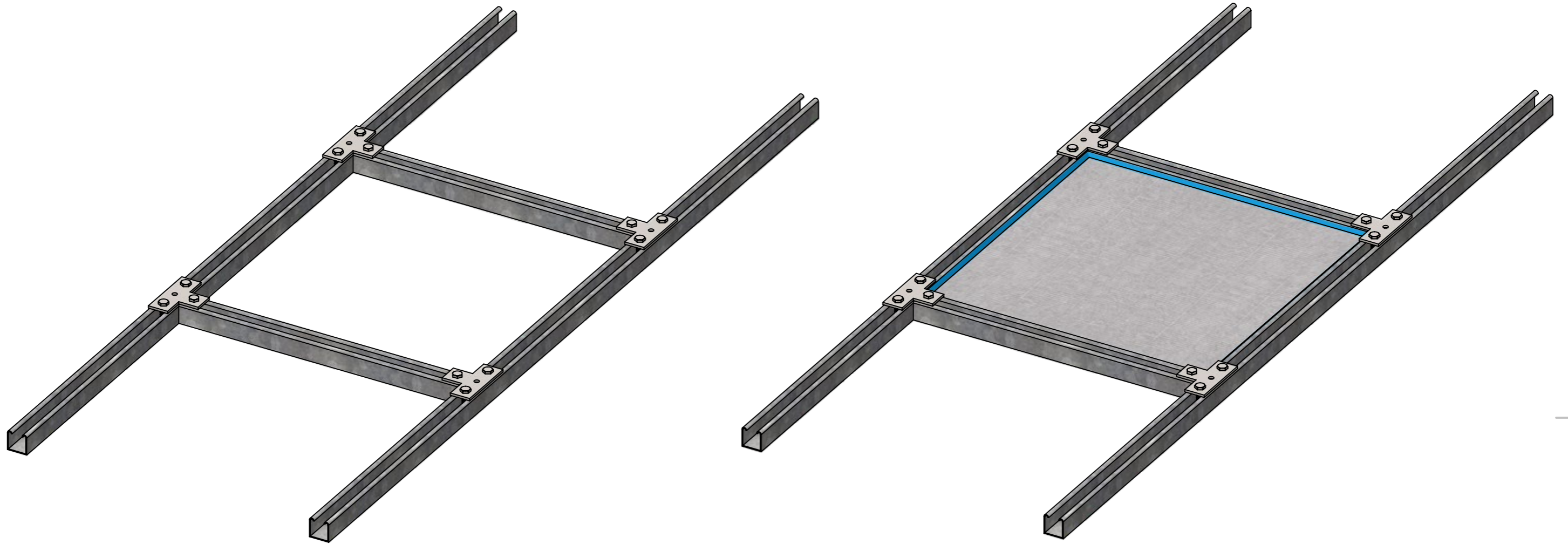
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HORIZONTAL FRAMEWORK AS PER (PH-451)

THE ABLATIVE BATT EDGES ARE BUTTERED WITH FIREFLY® ABLATIVE COATING BEFORE BEING FRICTION FIT WITHIN THE FRAMEWORK

THE JOINTS BETWEEN THE BATT AND FRAMEWORK ARE THEN SEALED WITH A 6mm BEAD OF FIREFLY® INTUMESCENT ACRYLIC, FLATTENED OVER THE JOINT ON AT LEAST ONE SIDE OF THE ASSEMBLY

THE FRAMEWORK IS INSTALLED IN THE DESIRED LOCATION (PH-451)

THE BATTS OUTER EDGES ARE BUTTERED WITH FIREFLY® ABLATIVE COATING BEFORE BEING FRICTION FIT INTO THE FRAMEWORK

THIS DETAIL CAN BE FIT WITH PENETRATIONS FROM THE BATT FLOOR SYSTEM FOR MORE INFORMATION PLEASE SEE DETAILS: (B-301 TO B-399)

PENETRATIONS THROUGH THIS SYSTEM WILL ONLY BE RATED FOR (UP TO) THE RATING OF THE BARRIER USED



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PHOENIX HORIZONTAL - BATT INTO HORIZONTAL FRAMEWORK

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