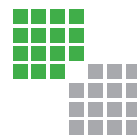


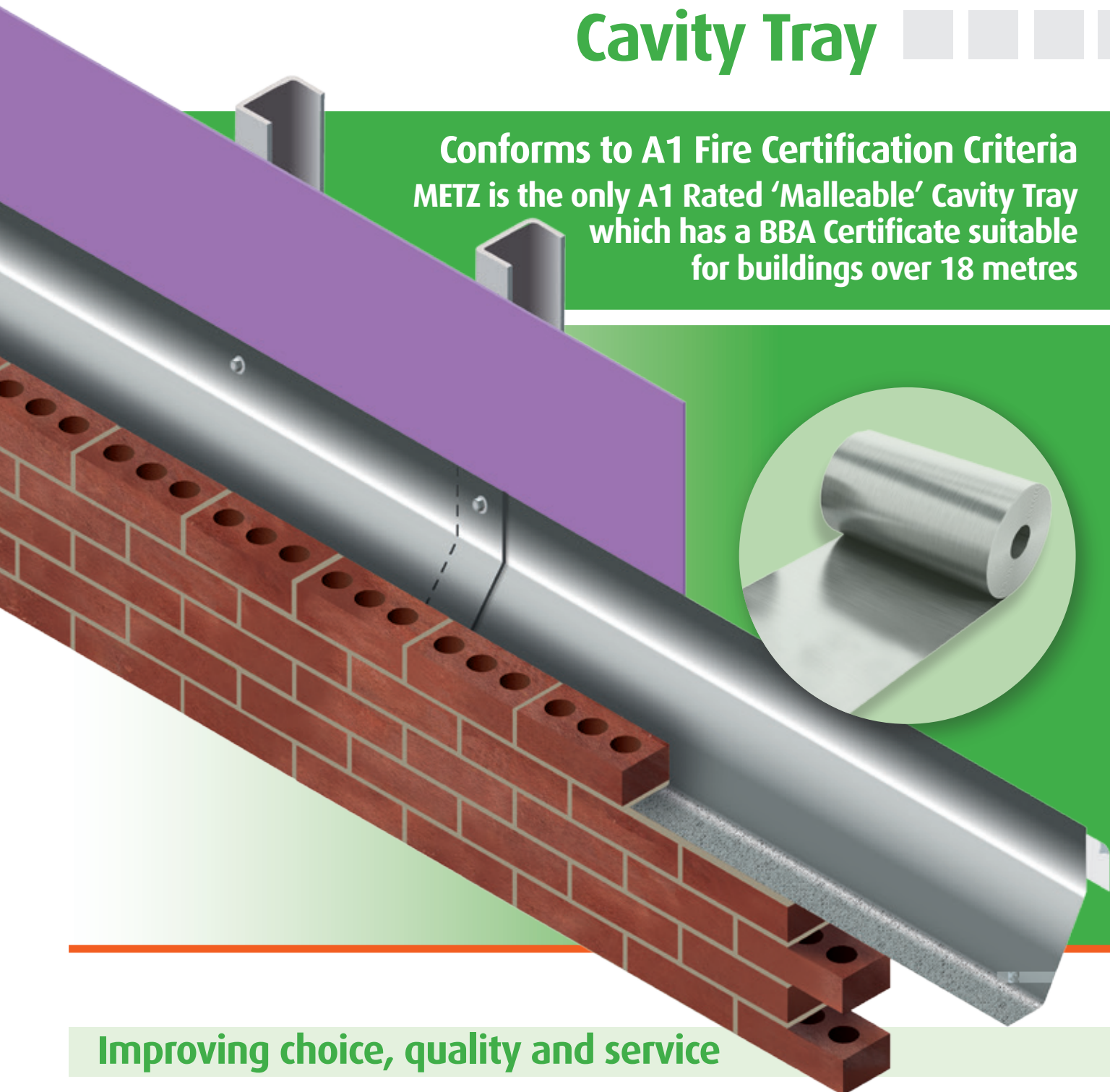


**MIERS**  
Construction Products Ltd



# METZ Non-Combustible Cavity Tray

**Conforms to A1 Fire Certification Criteria**  
**METZ is the only A1 Rated 'Malleable' Cavity Tray**  
**which has a BBA Certificate suitable**  
**for buildings over 18 metres**



**Improving choice, quality and service**



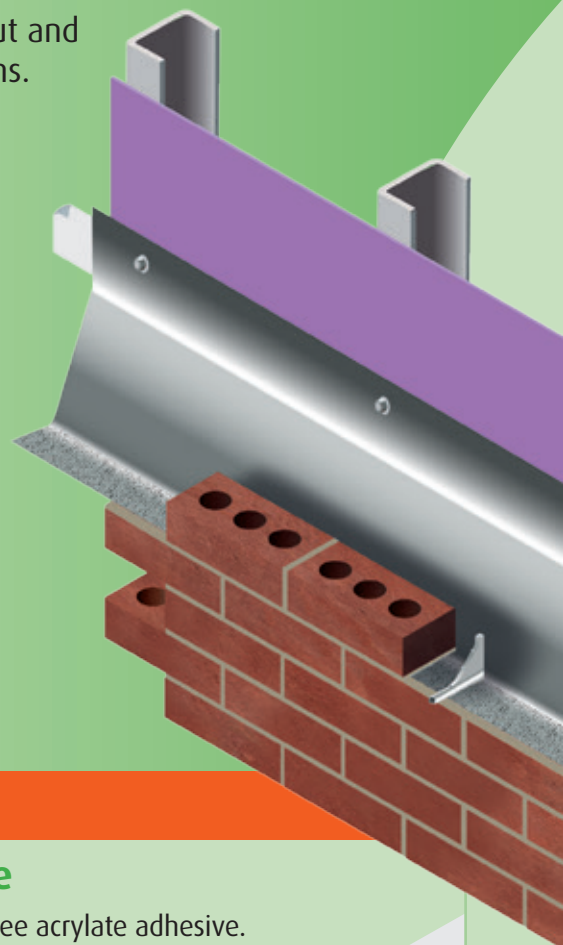
FS 658263

# METZ Non-Combustible Cavity Tray - Conforms to A1 Fire Certification Criteria

A unique patented soft zinc alloy supplied in a roll form, easily cut and formed to create a cavity tray between brickwork and SFS systems.

## Benefits

- Fast to install
- Lightweight
- Easy to handle
- Malleable and flexible product
- Simple joints
- Conforms to A1 Fire Certification Criteria
- BBA Certified
- Fully warranted material
- No sharp edges
- Supplied from stock
- Preformed corners supplied to suit
- 10m rolls
- Different widths available
- The excellent expansion coefficient of zinc will take up any movement between inside and outside walls



## Material Data

### ■ Grillo Soft Zinc

- Soft zinc made from ZN 99,995 % (Z1) according to DIN EN 1179
- Alloy - soft zinc
- Thickness - 0.6mm (zinc)
- Thermal conductivity = 110W/(mK)

#### Chemical Composition

Pb	max. 0,003 %
Cd	max. 0,003 %
Sn	max. 0,001 %
Fe	max. 0,002 %
Zn	remain

#### Mechanical Properties

	Soft zinc	Compared to Ti- zinc as per EN 988	
Tensile strength Rm	< 120	min. 150	MPa
Yield point Rpo,2	< 60	min. 100	MPa
Elongation	> 60	min. 35	%

### ■ Adhesive Tape

Double-sided, solvent-free acrylate adhesive.

Excellent adhesive with a very high tack, depending on surface and conditions.

The final adhesion can be reached after just 20 minutes.

Applicable on various surfaces including critical surfaces such as pe and pp.

- Temperature range -40°C to +80°C.
- Adhesion >30N/25mm. (After 5 minutes contact).
- Manufactured according to ISO standards.

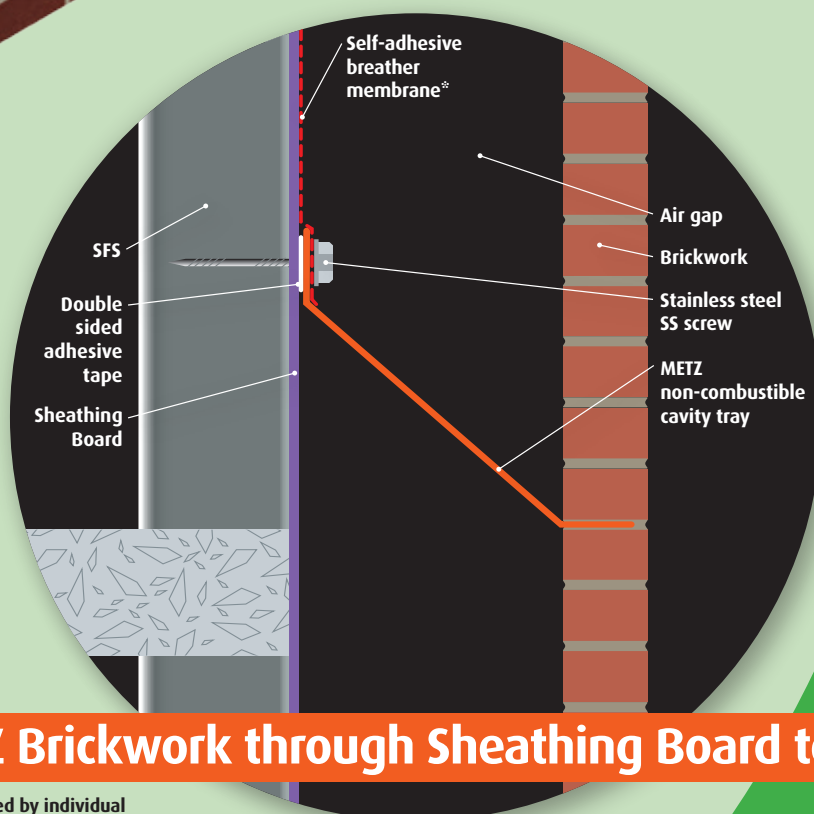
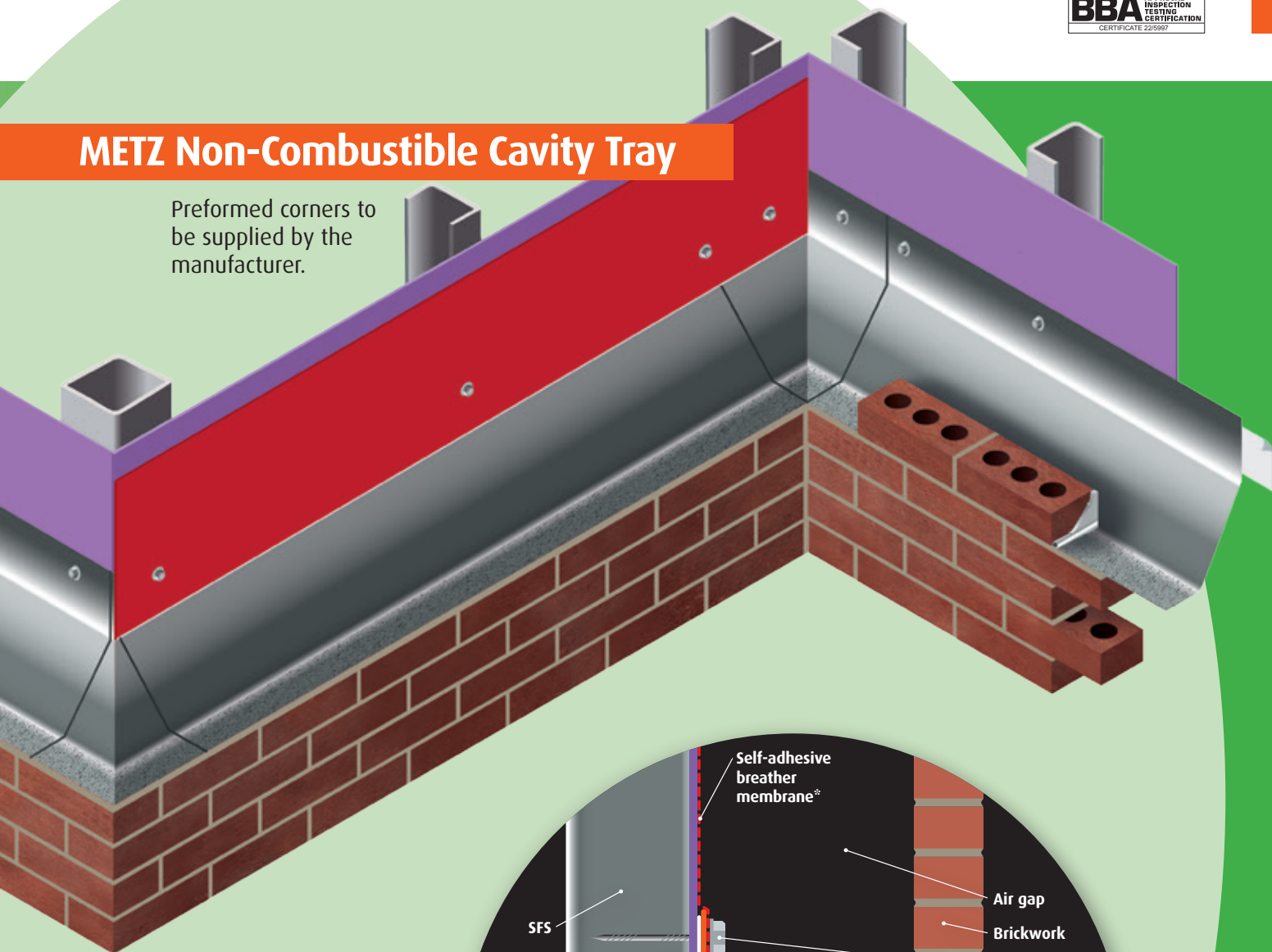
## Accreditations



# Nationwide Depots

## METZ Non-Combustible Cavity Tray

Preformed corners to be supplied by the manufacturer.



## METZ Brickwork through Sheathing Board to SFS

\*If required by individual warranty provider

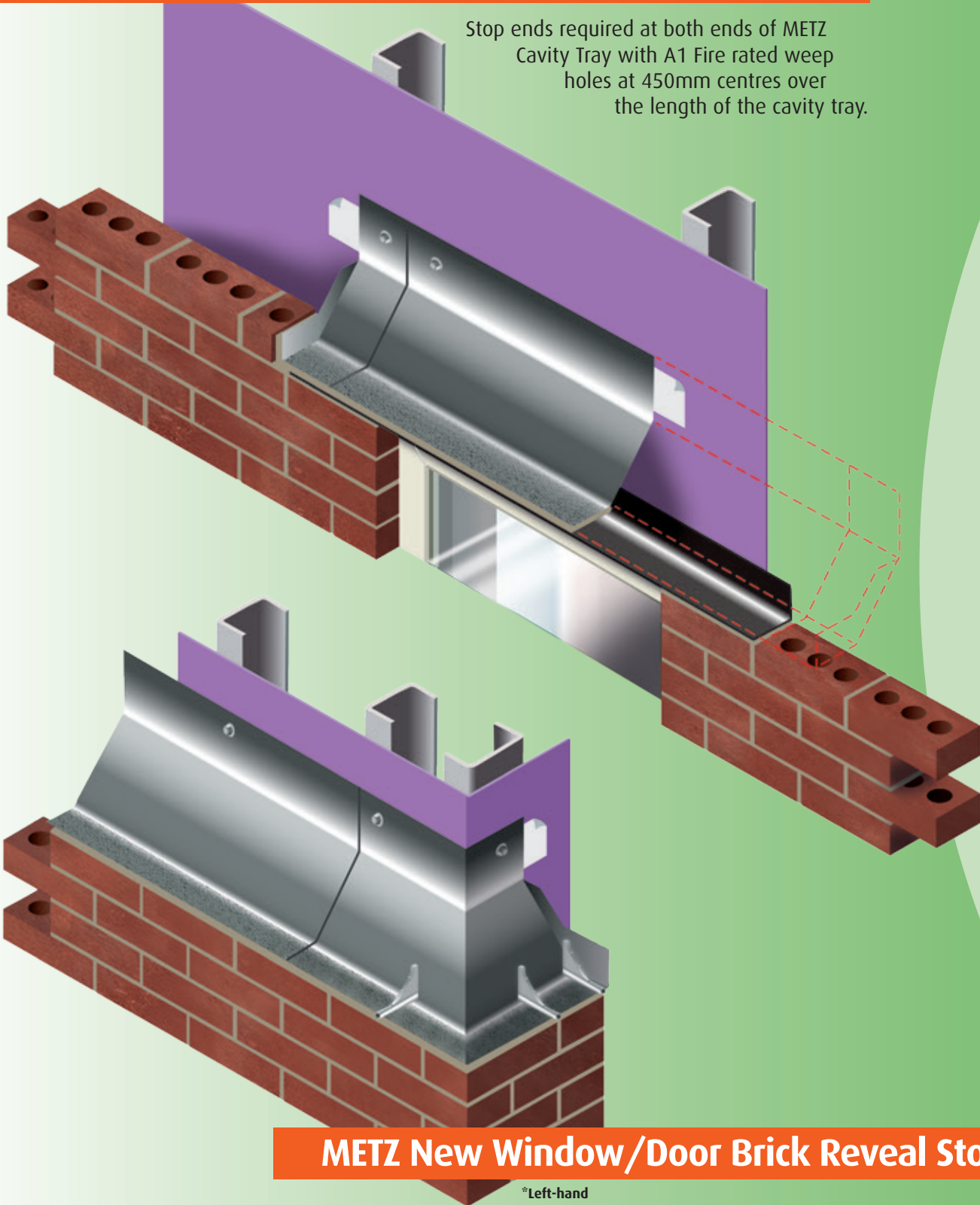
Nationwide Depots



# METZ Non-Combustible Cavity Tray - Conforms to A1 Fire Certification Criteria

## METZ Cavity Tray to SFS over Door/Window Lintel

Stop ends required at both ends of METZ Cavity Tray with A1 Fire rated weep holes at 450mm centres over the length of the cavity tray.



Nationwide Depots

## METZ Complex Projects Technical Team

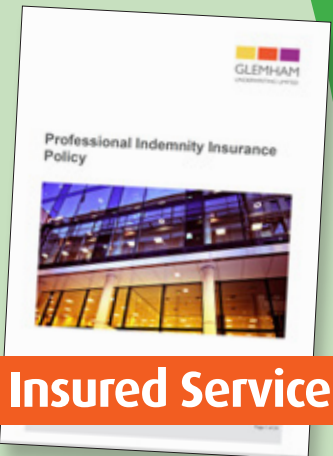
For Complex Projects please send us as much information as possible available, see below for relevant information needed, we will then mark up/propose where we envisage where the METZ Cavity Trays are required.

A teams meeting with the design team is advantageous prior to this to establish your preferences.

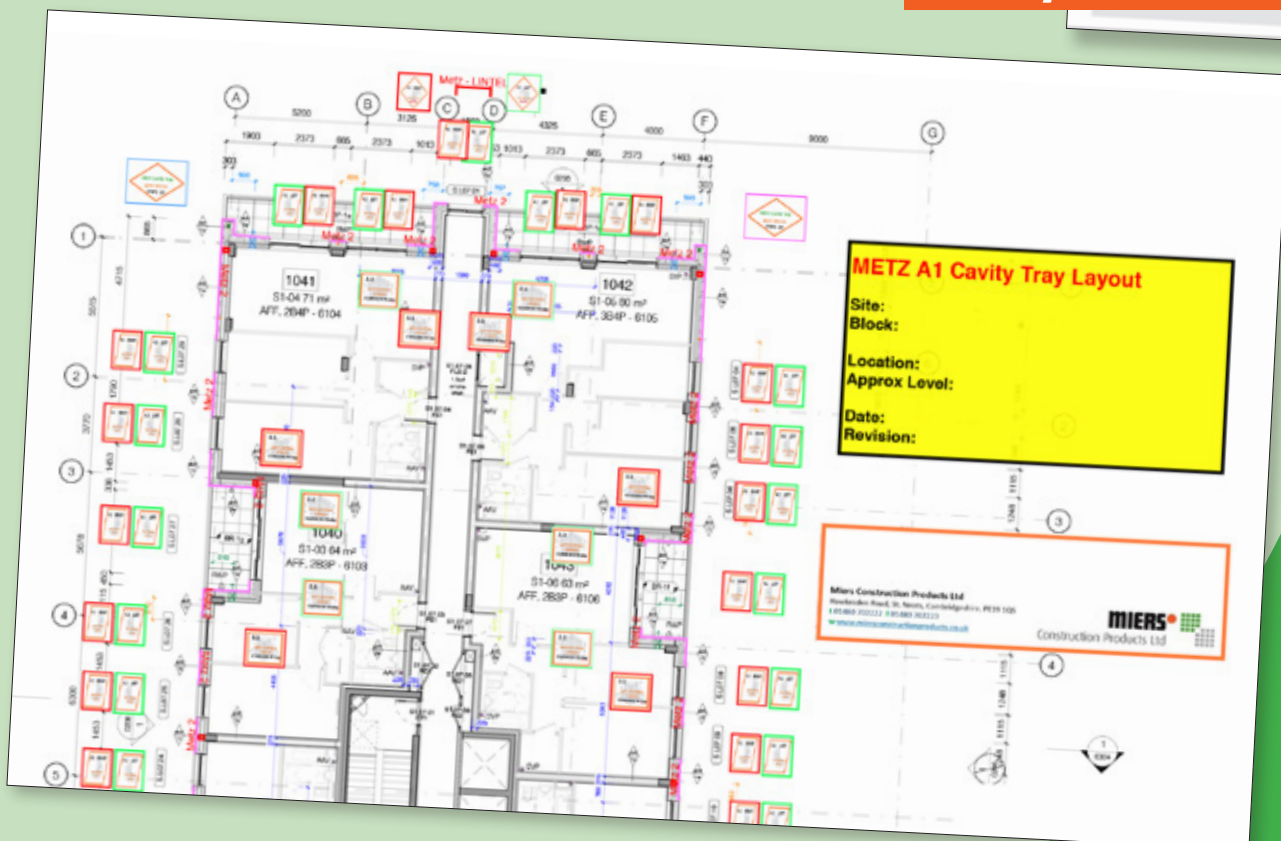
- Block names where METZ is required and sequence of construction.
- Elevations – marked up showing levels where cavity trays are required.
- Brickwork setting out plans – dimensioned and corner angles (also in dwg format).
- Cavity size identification – on elevation or plan giving dimension from inner face of external skin to external face of inner skin/column.
- Changes in cavity size identified i.e. where the following occur:  
Brickwork step on plan/reveals/features/columns/SFS/inner skin/etc.
- Detail section at cavity tray level showing:
  - Outer skin courses where cavity tray can be located
  - Masonry support details - manufacturers plan and section details
  - Balcony connector details – anything that needs to be avoided/dressed around
  - Lintel details - manufacturers plan and section details
  - Fire Barrier details – height/size and manufacturer name

In return we will provide you with a marked up layout with proposals (see example below), and an estimate of the total requirement.

**METZ Technical Team are on hand to assist if required please email:**  
[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)



**Fully Insured Service**



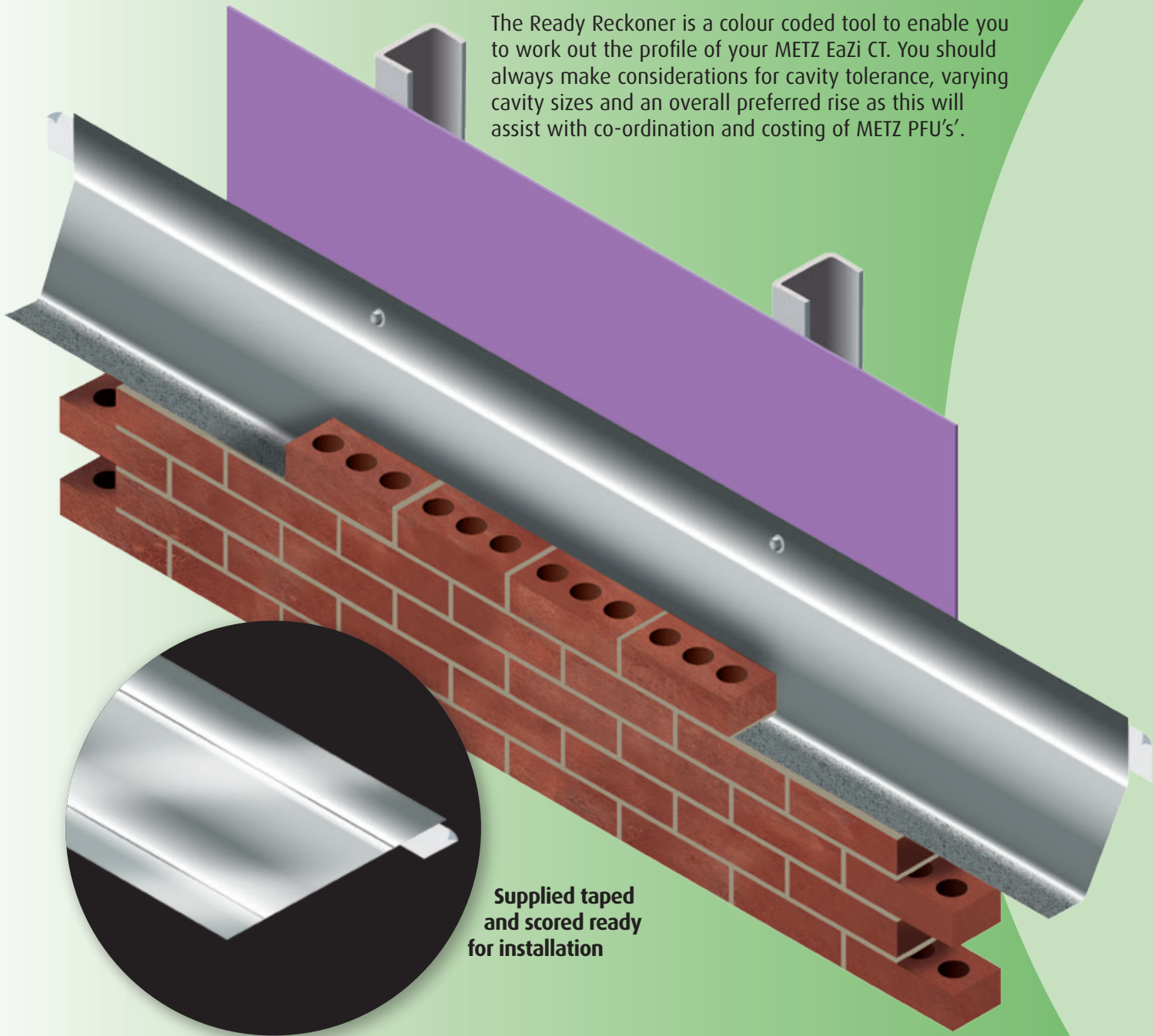
**Nationwide Depots**

# METZ Non-Combustible Cavity Tray - Conforms to A1 Fire Certification Criteria

## METZ EaZi CT

The METZ EaZi CT is supplied from stock in pre-formed 2 metre lengths, taped and scored ready for installation. Preformed corners/stop ends etc. will be required to complete the system - contact Miers for current lead time.

The Ready Reckoner is a colour coded tool to enable you to work out the profile of your METZ EaZi CT. You should always make considerations for cavity tolerance, varying cavity sizes and an overall preferred rise as this will assist with co-ordination and costing of METZ PFU's'.



Supplied taped  
and scored ready  
for installation

## Nationwide Depots

## METZ EaZi CT Ready Reckoner

Cavity Width (mm)	Outer Width (mm)	Rise @ 10 degrees (mm)	Slope Dimension (mm)	Standard Lap (mm)	METZ Roll Girth (mm)	Excess Top Lap to Trim/Build in (mm)
50	90	9	51	100	440	199
60	90	11	61	100	440	189
70	90	12	71	100	440	179
80	90	14	81	100	440	169
90	90	16	91	100	440	159
100	90	18	102	100	440	148
110	90	19	112	100	440	138
120	90	21	122	100	440	128
130	90	23	132	100	440	118
140	90	25	142	100	440	108
150	90	26	152	100	440	98
160	90	28	162	100	440	88
170	90	30	173	100	440	77
180	90	32	183	100	440	67
190	90	34	193	100	440	57
200	90	35	203	100	440	47
210	90	37	213	100	440	37
220	90	39	223	100	440	27
230	90	41	234	100	440	16
240	90	42	244	100	440	6
250	90	44	254	100	500	56
260	90	46	264	100	500	46
270	90	48	274	100	500	36
280	90	49	284	100	500	26
290	90	51	294	100	500	16
300	90	53	305	100	500	5
310	90	55	315	100	600	95
320	90	56	325	100	600	85
330	90	58	335	100	600	75
340	90	60	345	100	600	65
350	90	62	355	100	600	55
360	90	63	366	100	600	44
370	90	65	376	100	600	34
380	90	67	386	100	600	24
390	90	69	396	100	600	14
400	90	71	406	100	600	4
410	90	72	416	100	700	94
420	90	74	426	100	700	84
430	90	76	437	100	700	73
440	90	78	447	100	700	63
450	90	79	457	100	700	53
460	90	81	467	100	700	43
470	90	83	477	100	700	33
480	90	85	487	100	700	23
490	90	86	498	100	700	12
500	90	88	508	100	700	2

METZ Technical Team are on hand to assist if required please email:  
[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)

## Nationwide Depots



# METZ Non-Combustible Cavity Tray - Conforms to A1 Fire Certification Criteria

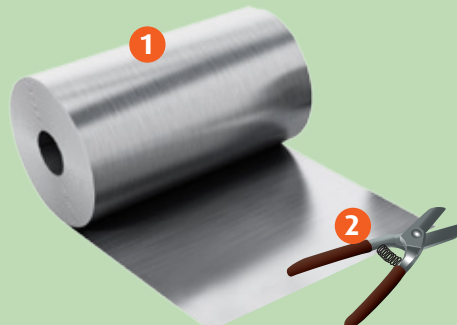
## Installation Procedure

### ■ Cutting

- 1 METZ Cavity Tray is supplied in 10m rolls. It should be formed and laid in maximum 2m lengths.

Appropriate safety gloves should be worn when handling and working.

- 2 Use tin snips to cut required lengths.



### ■ Forming

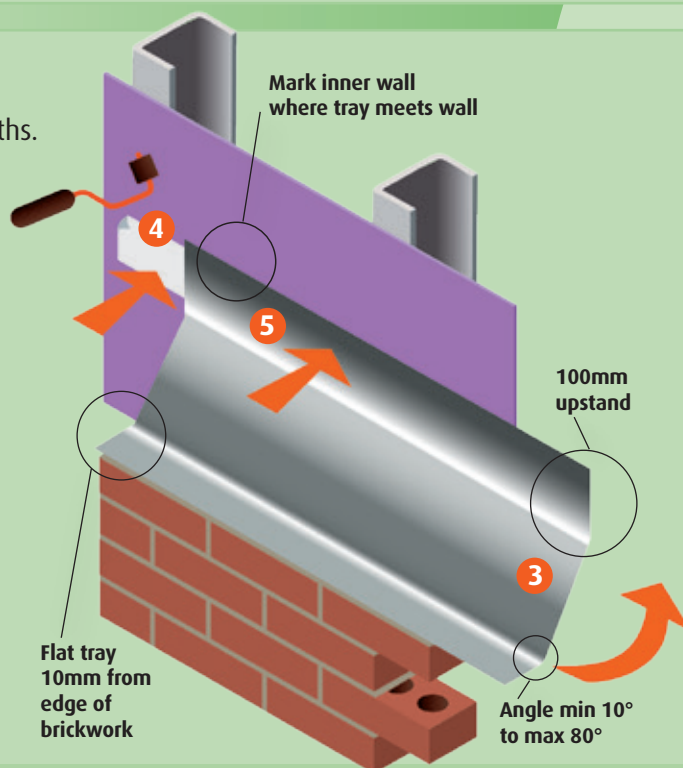
- 3 Corners must be fitted before installing straight lengths.

Lay flat tray 10mm from edge of outside brick wall, mark where inside edge of brick ends and form angle to inner wall. Form 100mm upstand to top edge of tray by hand or by using metal formers, see below for acceptable tray shapes and formers\*. It is recommended that formers are used to provide accurate and consistent folds.

Hold tray in place 10mm from front edge and mark inner wall where top of tray meets it, make line along wall using spirit level.

- 4 Ensure wall is dust free and dry then run adhesive strip along marked line using a hard roller, do not remove release strip.
- 5 Offer tray into correct position to check fitting, then remove release strip on adhesive and firmly press top of tray into place on adhesive. (Full adhesion will be achieved in 20/30 mins.).

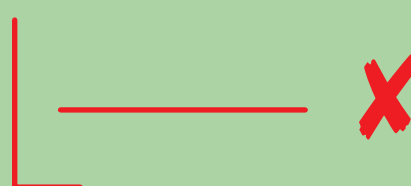
Bottom edge of tray may sit up slightly but will fit in place when bricks are laid and mortared.



#### Acceptable Shapes



#### Non Acceptable Shapes



Metal forming equipment



\*Equipment can be viewed at:

➔ [www.youtube.com/watch?v=5hqqccSmKo4](https://www.youtube.com/watch?v=5hqqccSmKo4)

➔ [www.wuko.at/fileadmin/user\\_upload/videos/2202.webm](https://www.wuko.at/fileadmin/user_upload/videos/2202.webm)

## Nationwide Depots



## ■ Securing and Fixing

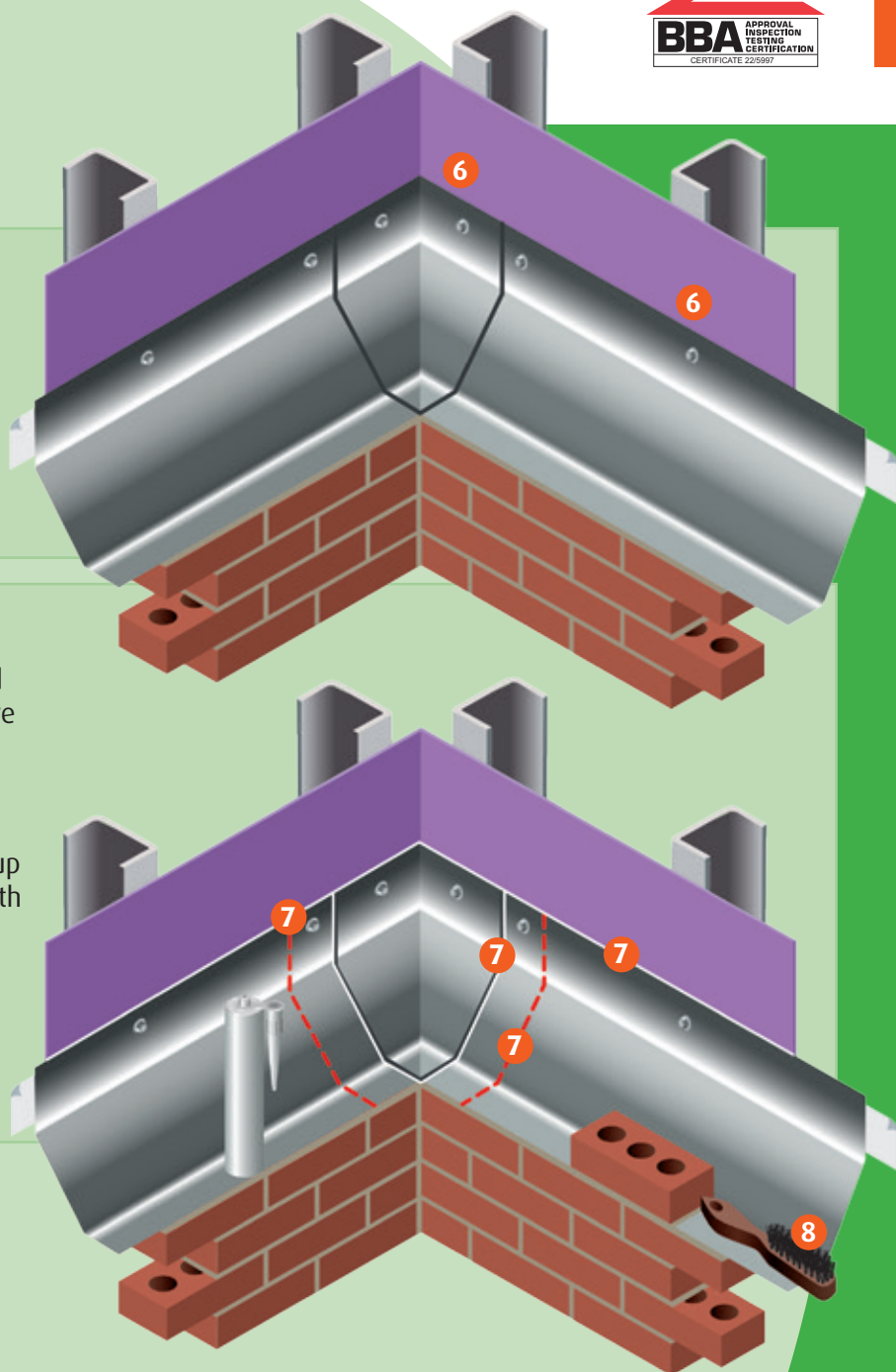
- 6 Secure using appropriate stainless steel fixings at 600mm centres along the lengths and above each joint, including above all corner joints. (Fixings should be centred on each overlap).

## ■ Mortaring and Sealing

- 7 All joints should overlap by 100mm and bonded using METZ double side adhesive tape. **All exposed edges on the joints and top of inner wall must be sealed with 'METZ' sealant.**
- 8 With a wire brush or wire wool, rough-up surface which will come into contact with the mortar to give an initial key before brick laying. **The cavity tray must be laid on a mortar base with another layer of mortar above it.**

### PLEASE NOTE:

- Where Gypsum based sheathing boards are being used, the boards must be completely dry and without any damage, holes, rips etc. prior to fixing METZ. (Warranty will be void if this instruction is not followed).
- All fixings must penetrate SFS by minimum of 30mm.
- Where tray needs to be fixed to sheathing board only, please use Type A Hex Head S/S Tapfix screws.
- It is recommended that a condensation risk analysis is obtained from the insulation manufacturer to eliminate dew point within the wall build up.
- Where the adhesive is required to bond to brickwork, blockwork, or concrete surfaces, they must be coated with a proprietary PVA primer applied to manufacturers instructions.



## METZ Product Packaging

### Product

- |  |   |
|--|---|
| • METZ Cavity Tray 440mm wide (10m Roll)*  | • SS Bi Met Conmate Screw 6.3 x 45mm c/w ISO washer (for concrete) (p/100)                      |
| • METZ Cavity Tray 600mm wide (10m Roll)*  | • Type A Hex Head S/S Tapfix Screw 4.9 x 25mm c/w ISO washer (for sheathing board only) (p/100) |
| • Adhesive Strip (50m Roll)                | • METZ MS Polymer Sealant   |
| • Bespoke Pre-Formed Corners and Stop-Ends |   |
| • HTSS Tek Screw 5.5mm (for SFS) (p/100)   |   |

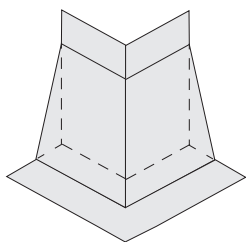
\* Other sizes available as special

# Nationwide Depots

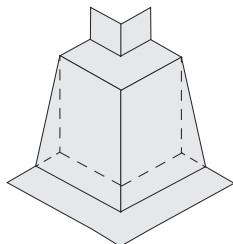
# METZ Design Sheets Guide 1 - 10

## 1 External Corners

01.1 External Corner

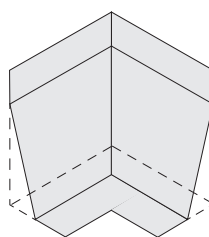


01.2 External Corner - Stepped

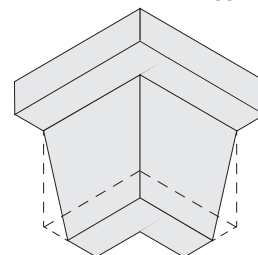


## 2 Internal Corners

02.1 Internal Corner

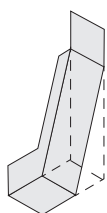


02.2 Internal Corner - Stepped



## 3 Stop Ends

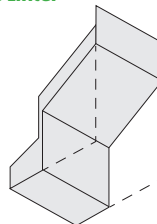
03.1 Stop End Brickwork



03.2 Stop End Blockwork

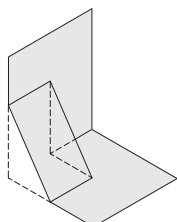


03.3 Stop End - Brickwork Angle Lintel

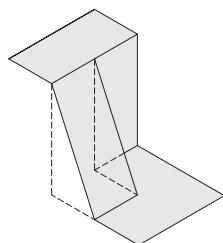


## 4 Reveals

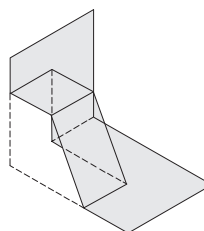
04.1 Reveal Type 1



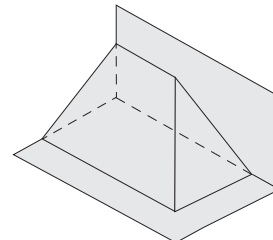
04.2 Reveal Type 1 - Built In



04.3 Reveal Type 1 - Stepped

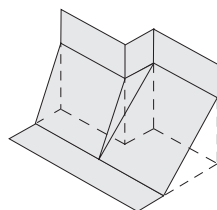


04.4 Reveal Type 2

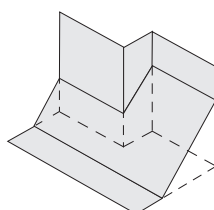


## 5 Cavity Reducers

05.1 Cavity Reducer Type 1

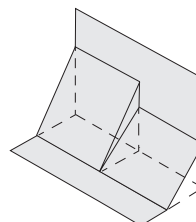


05.2 Cavity Reducer Type 2



## 6 Height Reducer

06.1 Tray Height Reducer Type 1



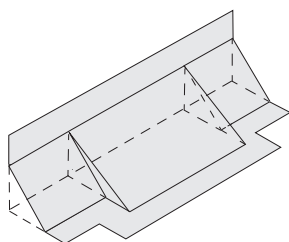
**Typical PFU's shown -  
Please contact Miers  
Technical for full range**

Email:  
[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)

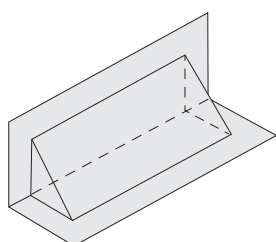
# METZ Design Sheets Guide 1 - 10

## 7 Piers

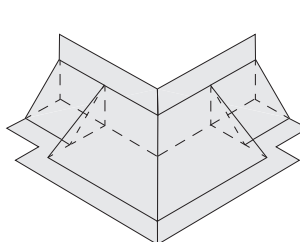
07.1 Pier Central Type 1



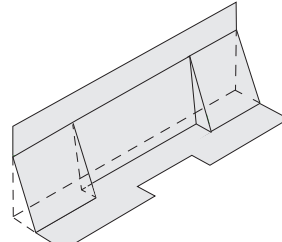
07.2 Pier Central Type 2



07.3 Pier Corner Type 1

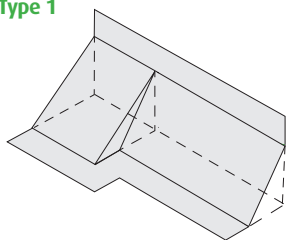


07.4 Pier - Brick Recess

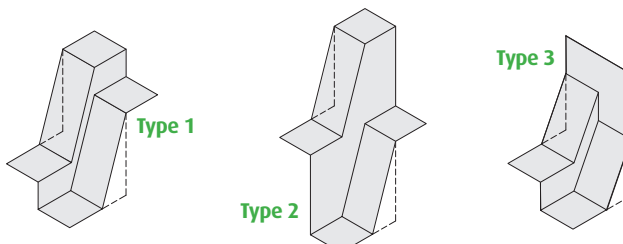


## 8 Brick Step Ons

08.1 Brickwork Step On Plan Type 1

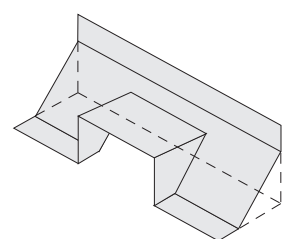


08.2 Brickwork Step On Elevation Types 1-3

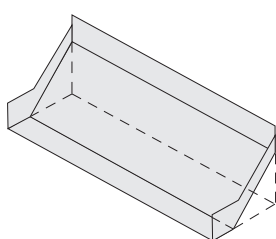


## 9 Cloaks

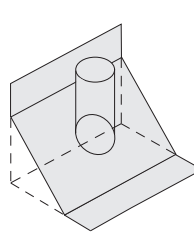
09.1 Cloak - Vent Type 1



09.2 Cloak - Airbrick Type 2

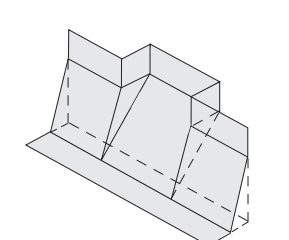


09.3 Cloak - RWP Type 3

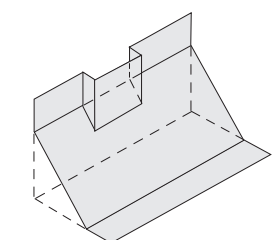


## 10 Columns

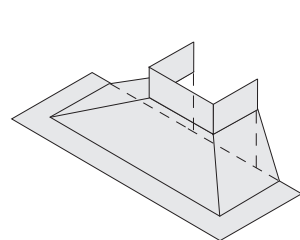
10.1 Column Recess Type 1



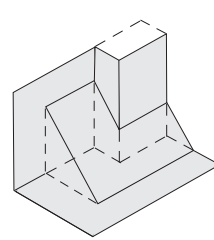
10.2 Column Projection Type 1



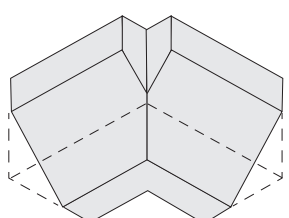
10.3 Column End Pier Type 1



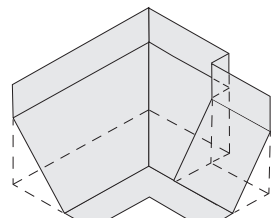
10.4 Column Projection & Reveal



10.5 Column Projection - Internal Corner



10.6 Column Projection - Adjacent to Internal Corner



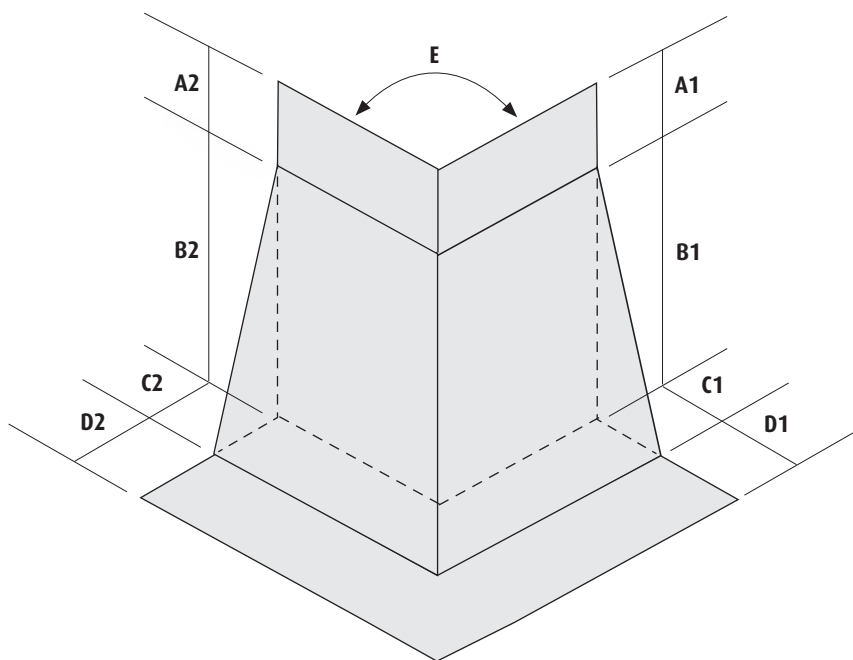
**Typical PFU's shown -  
Please contact Miers  
Technical for full range**

Email:  
[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)

To place an order for METZ Non-Combustible External Corner please fill out the form below.

Customer Name		Date	Project Name
Site address			
Post Code	Tel	Fax	Email

### External Corner



### External Corner

#### Location Reference

		(Complete if different)
A - Lap (100mm min)	A1 =	A2 =
B - Rise	B1 =	B2 =
C - Cavity Width	C1 =	C2 =
D - Outer (90mm)	D1 =	D2 =
E - Corner Angle	E =	
Quantity as drawn		
Quantity handed		

Additional / bespoke features can be incorporated, if required please indicate:

- Stop Ends
- Specific Leg Length(s)

Please note External Corners are made to order and are non-returnable

Signed	Print Name
Position	Date

Email:

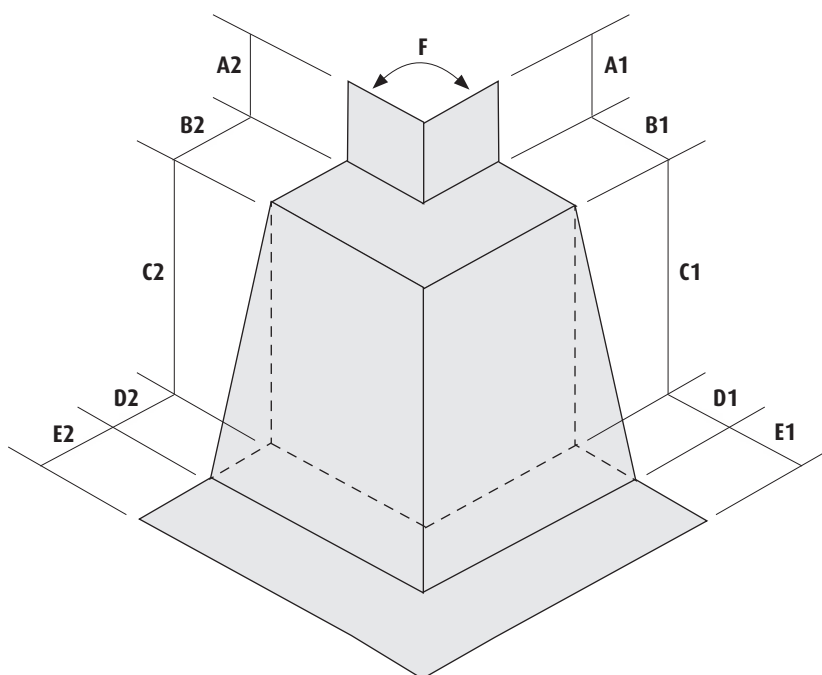
[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)



To place an order for METZ Non-Combustible External Corner - Stepped please fill out the form below.

Customer Name		Date	Project Name
Site address			
Post Code	Tel	Fax	Email

### External Corner - Stepped



### External Corner - Stepped

#### Location Reference

		(Complete if different)
A - Lap (100mm min)	A1 =	A2 =
B - Horizontal	B1 =	B2 =
C - Rise	C1 =	C2 =
D - Horizontal	D1 =	D2 =
E - Outer (90mm)	E1 =	E2 =
F - Corner Angle	F =	
Quantity as drawn		
Quantity handed		

Additional / bespoke features can be incorporated, if required please indicate:

- Stop Ends
- Specific Leg Length(s)

Please note External Corners are made to order and are non-returnable

Signed	Print Name
Position	Date

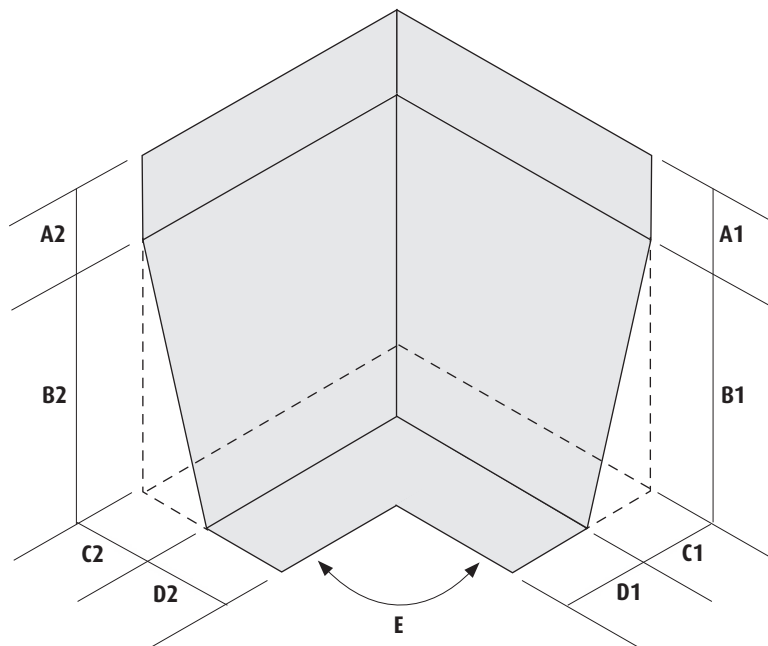
Email:

[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)

To place an order for METZ Non-Combustible Internal Corner please fill out the form below.

<b>Customer Name</b>		<b>Date</b>	<b>Project Name</b>
Site address			
Post Code	Tel	Fax	Email

### Internal Corner



### Internal Corner

#### Location Reference

		(Complete if different)
A - Lap (100mm min)	A1 =	A2 =
B - Rise	B1 =	B2 =
C - Cavity Width	C1 =	C2 =
D - Outer (90mm)	D1 =	D2 =
E - Corner Angle	E =	
Quantity as drawn		
Quantity handed		

Additional / bespoke features can be incorporated, if required please indicate:

- Stop Ends
- Specific Leg Length(s)

Please note External Corners are made to order and are non-returnable

Signed

Print Name

Position

Date

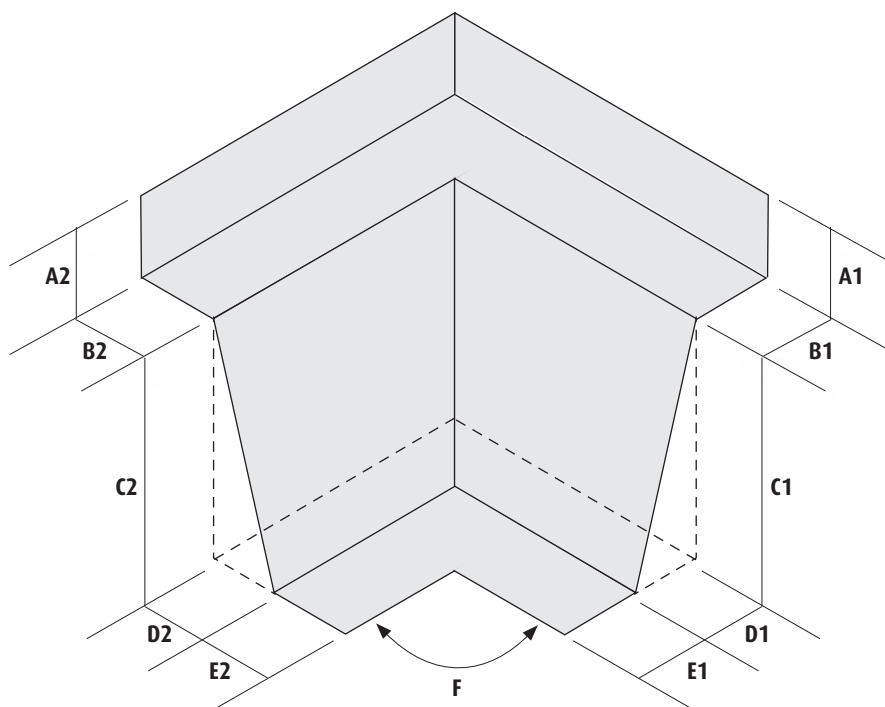
Email:

[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)

To place an order for METZ Non-Combustible Internal Corner - Stepped please fill out the form below.

<b>Customer Name</b>		<b>Date</b>	<b>Project Name</b>
Site address			
Post Code	Tel	Fax	Email

### Internal Corner - Stepped



### Internal Corner - Stepped

#### Location Reference

		(Complete if different)
A - Lap (100mm min)	A1 =	A2 =
B - Horizontal	B1 =	B2 =
C - Rise	C1 =	C2 =
D - Horizontal	D1 =	D2 =
E - Outer (90mm)	E1 =	E2 =
F - Corner Angle	F =	
Quantity as drawn		
Quantity handed		

Additional / bespoke features can be incorporated, if required please indicate:

- Stop Ends
- Specific Leg Length(s)

Please note External Corners are made to order and are non-returnable

<b>Signed</b>		<b>Print Name</b>
<b>Position</b>		<b>Date</b>

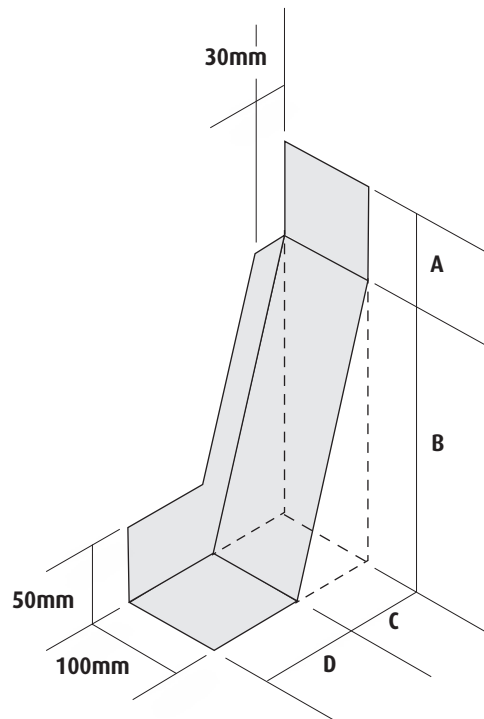
Email:

[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)

To place an order for METZ Non-Combustible Stop End - Brickwork please fill out the form below.

Customer Name		Date	Project Name
Site address			
Post Code	Tel	Fax	Email

### Stop End - Brickwork



### Stop End - Brickwork

#### Location Reference

A - Lap (100mm min)

B - Rise

C - Cavity Width

D - Outer (90mm)

Quantity as drawn

Quantity handed

Additional / bespoke features can be incorporated, if required please indicate:

- Stop Ends
- Specific Leg Length(s)

Please note External Corners are made to order and are non-returnable

Signed

Print Name

Position

Date

Email:

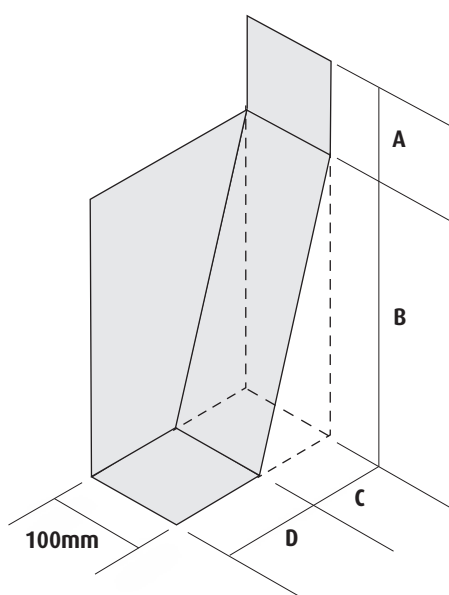
[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)



To place an order for METZ Non-Combustible Stop End - Blockwork please fill out the form below.

Customer Name		Date	Project Name
Site address			
Post Code	Tel	Fax	Email

### Stop End - Blockwork



### Stop End - Blockwork

#### Location Reference

A - Lap (100mm min)

B - Rise

C - Cavity Width

D - Outer (90mm)

Quantity as drawn

Quantity handed

Additional / bespoke features can be incorporated, if required please indicate:

- Stop Ends
- Specific Leg Length(s)

Please note External Corners are made to order and are non-returnable

Signed	Print Name
Position	Date

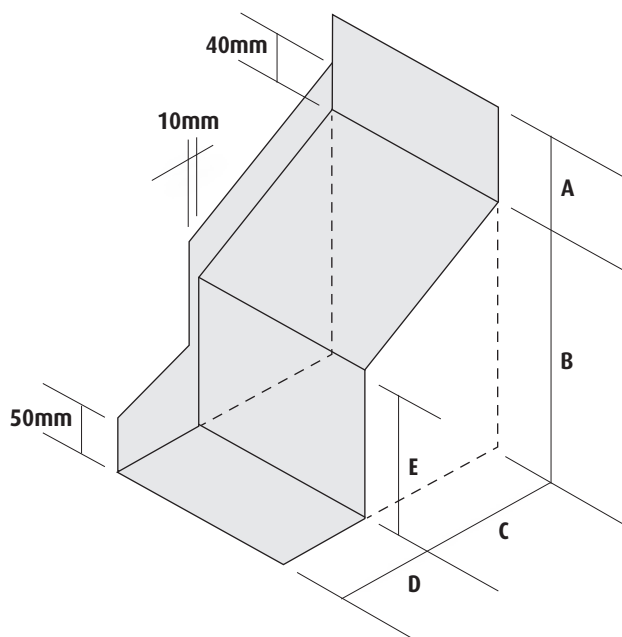
Email:

[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)

To place an order for METZ Non-Combustible Stop End - Brickwork Angle Lintel please fill out the form below.

Customer Name		Date	Project Name
Site address			
Post Code	Tel	Fax	Email

### Stop End - Brickwork Angle Lintel



### Stop End - Brickwork Angle Lintel

#### Location Reference

A - Lap (100mm min)

B - Rise

C - Cavity Width

D - Outer (90mm)

E - Lintel Upstand Clearance

Quantity as drawn

Quantity handed

Additional / bespoke features can be incorporated, if required please indicate:

- Stop Ends
- Specific Leg Length(s)

Please note External Corners are made to order and are non-returnable

Signed	Print Name
Position	Date

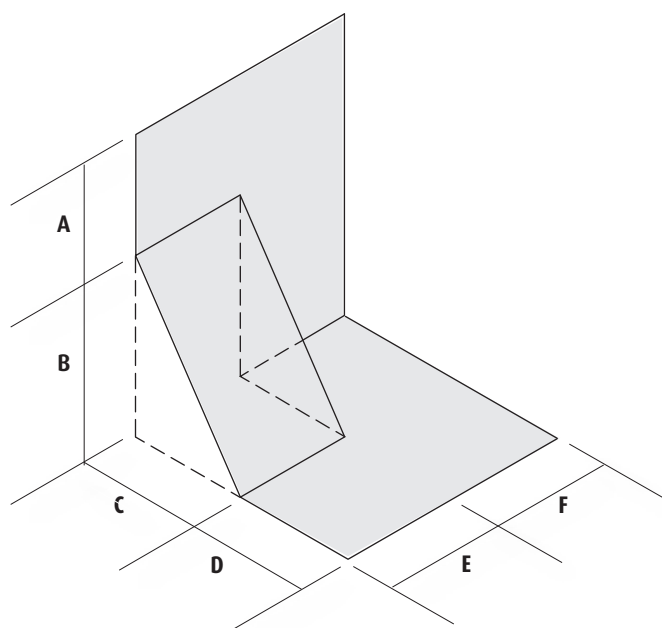
Email:

[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)

To place an order for METZ Non-Combustible Reveal Type 1 please fill out the form below.

Customer Name		Date	Project Name
Site address			
Post Code	Tel	Fax	Email

### Reveal Type 1



### Reveal Type 1

#### Location Reference

A - Lap (100mm min)

B - Rise

C - Cavity Width

D - Outer (90mm)

E

F

Quantity as drawn

Quantity handed

Additional / bespoke features can be incorporated, if required please indicate:

- Stop Ends
- Specific Leg Length(s)

Please note External Corners are made to order and are non-returnable

Signed	Print Name
Position	Date

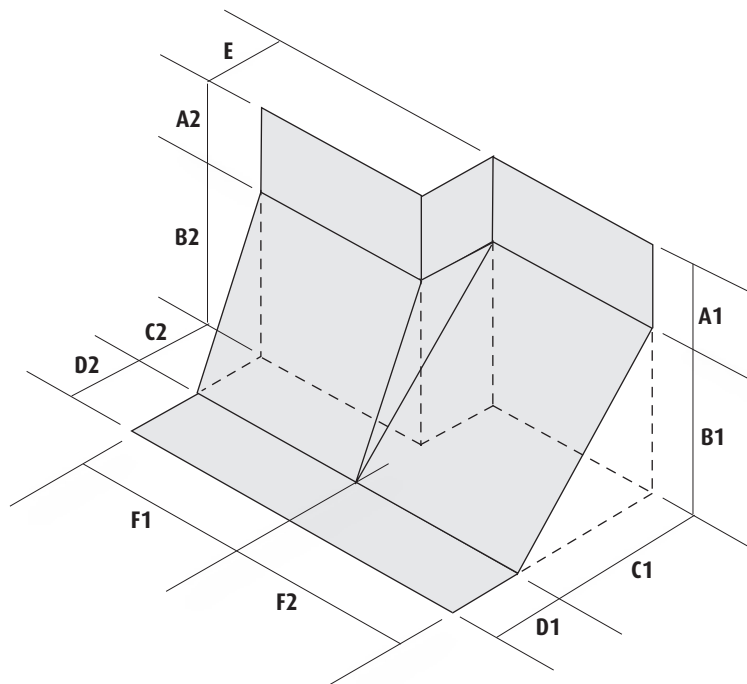
Email:

[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)

To place an order for METZ Non-Combustible Cavity Reducer Type 1 please fill out the form below.

Customer Name		Date	Project Name
Site address			
Post Code	Tel	Fax	Email

### Cavity Reducer Type 1



#### Cavity Reducer Type 1

##### Location Reference

A - Lap (100mm min)	A1 =	A2 =
B - Rise	B1 =	B2 =
C - Cavity Width	C1 =	C2 =
D - Outer (90mm)	D1 =	D2 =
E - Cavity Step		
F1 - Leg 1		
F2 - Leg 2		
Quantity as drawn		
Quantity handed		

Additional / bespoke features can be incorporated, if required please indicate:

- Stop Ends
- Specific Leg Length(s)

Please note External Corners are made to order and are non-returnable

Signed	Print Name
Position	Date

Email:

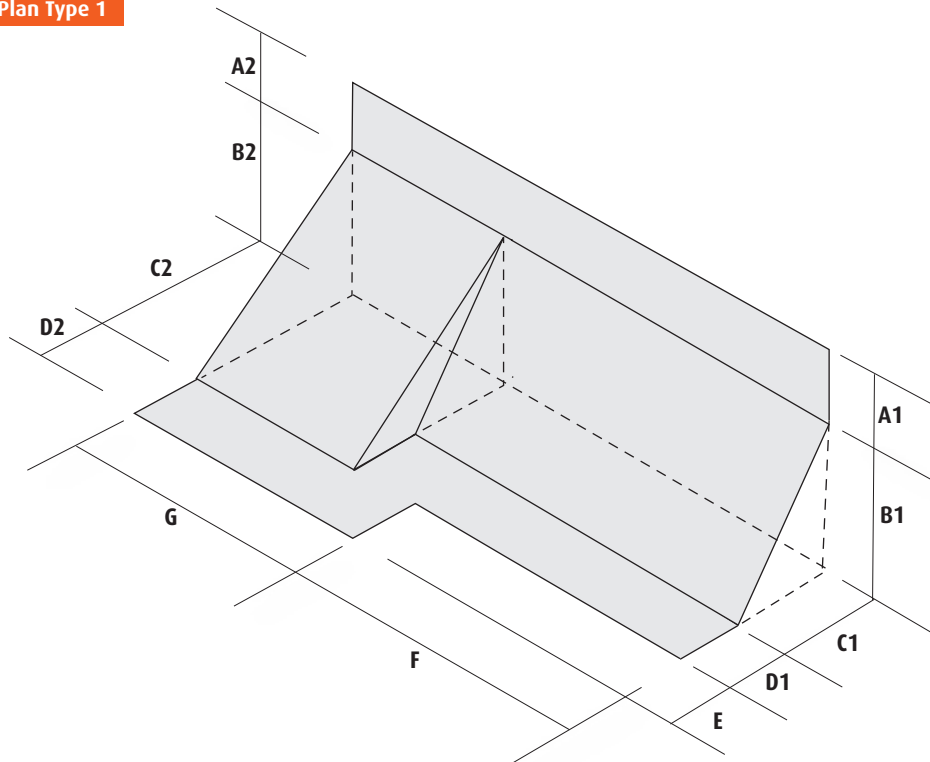
[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)



To place an order for METZ Non-Combustible Tray Brickwork Step On Plan Type 1 please fill out the form below.

Customer Name		Date	Project Name
Site address			
Post Code	Tel	Fax	Email

### Brickwork Step On Plan Type 1



### Brickwork Step On Plan Type 1

#### Location Reference

A - Lap (100mm )	A1 =	A2 =
B - Rise	B1 =	B2 =
C - Cavity Width	C1 =	C2 =
D - Outer (90mm)	D1 =	D2 =
E		
F		
G		
Quantity as drawn		
Quantity handed		

Additional / bespoke features can be incorporated, if required please indicate:

- Stop Ends
- Specific Leg Length(s)

Please note External Corners are made to order and are non-returnable

Signed	Print Name
Position	Date

Email:

[sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)

Project	_____
Building	_____
Floor level	_____
Inspected by	_____
Signature	_____
Date	_____

## METZ Installation Checklist



- ☐ Ensure all required tools are to hand and wear appropriate safety equipment (gloves, goggles, etc.)
- ☐ All surfaces should be clean and dry and primed where necessary
- ☐ Use a maximum length of 2m for forming / fitting
- ☐ All preformed units must be fitted before straight lengths
- ☐ Fit 100mm upstand to back wall after marking level line
- ☐ Ensure the angle of the tray in the cavity is between 10° and 80°
- ☐ Fit METZ cavity tray 10mm back from face of the brickwork
- ☐ Secure mechanically at 600mm centres with minimum 30mm embedment
- ☐ A mechanical fixing should also be used on all laps
- ☐ Joints should overlap by 100mm
- ☐ Exposed edges should be sealed with METZ Sealant
- ☐ Wirebrush the surface of the METZ Cavity Tray that will come into contact with the mortar
- ☐ Ensure that the section of cavity tray that is in the brickwork is laid on a mortar base and is also topped with mortar
- ☐ When fixing to concrete or blockwork, surfaces should be primed with suitable PVA primer
- ☐ Have A1 rated weepholes been fitted at 450mm centres?

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Construction Products Ltd

### Head Office

Hawkesden Road, St Neots, Cambs PE19 1QS

**t** 01480 702222

**f** 01480 702223

**e** [sales@miersconstructionproducts.co.uk](mailto:sales@miersconstructionproducts.co.uk)

[www.miersconstructionproducts.co.uk](http://www.miersconstructionproducts.co.uk)



### Kestral Construction Products Ltd

Unit 1-3, Fishwicks Industrial Estate,  
Kilbuck Lane, Haydock, St Helens WA11 9SZ

**t** 01744 830001

**f** 01744 830002

**e** [sales@kestral.net](mailto:sales@kestral.net)

[www.kestral.net](http://www.kestral.net)

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