

Uniclass JH7

CI/SfB

99.98

October 2012

NO STITCHING

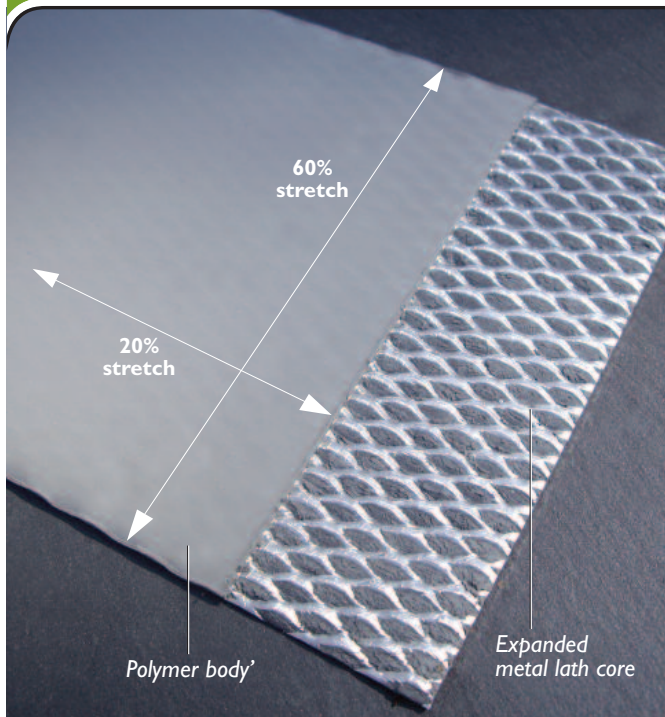


Performance Flashing System...

Masterform®

...a lead free alternative





Masterform is a unique alternative weathering material providing a long term waterproof covering to areas where traditional roofing materials such as lead, zinc and copper would normally be used. It is capable of being installed to the traditional detailing normally associated with these materials which are inherently vulnerable to theft due to their scrap metal values.

Masterform is an unlaminated polymer based sheet material with an aluminium mesh embedded within the thickness of the sheet. It has been designed and manufactured to meet the specific requirements of a weathering material that is flexible, malleable, durable and aesthetically pleasing. Joints in Masterform can also be formed using the MMS sealant which provides a completely waterproof joint.

Masterform however has no scrap value and is worthless to thieves. These qualities facilitate the installation of traditionally detailed roofing without the associated risk of theft. Masterform is available from stock in two colours – Grey and Black.

The Masterform® System

The Masterform weathering system is made up of four main components.

1. Masterform Material – supplied in 4m long rolls in 15 different widths from 150-1250mm.
2. Masterform MMS – a mastic form of the sheet polymer which is used for joining, adhering and sealing.
3. Masterform MBA – a bonding agent used in the jointing process to hold the two pieces of Masterform together whilst the MMS cures.
4. Masterform Trims – these aluminium trims provide continuous support at drip edges and are supplied in 1m lengths with two different drip dimensions.

For Product Technical Data please see inside back cover.

*For Technical Support please contact the Technical team
0845 0098 980.*

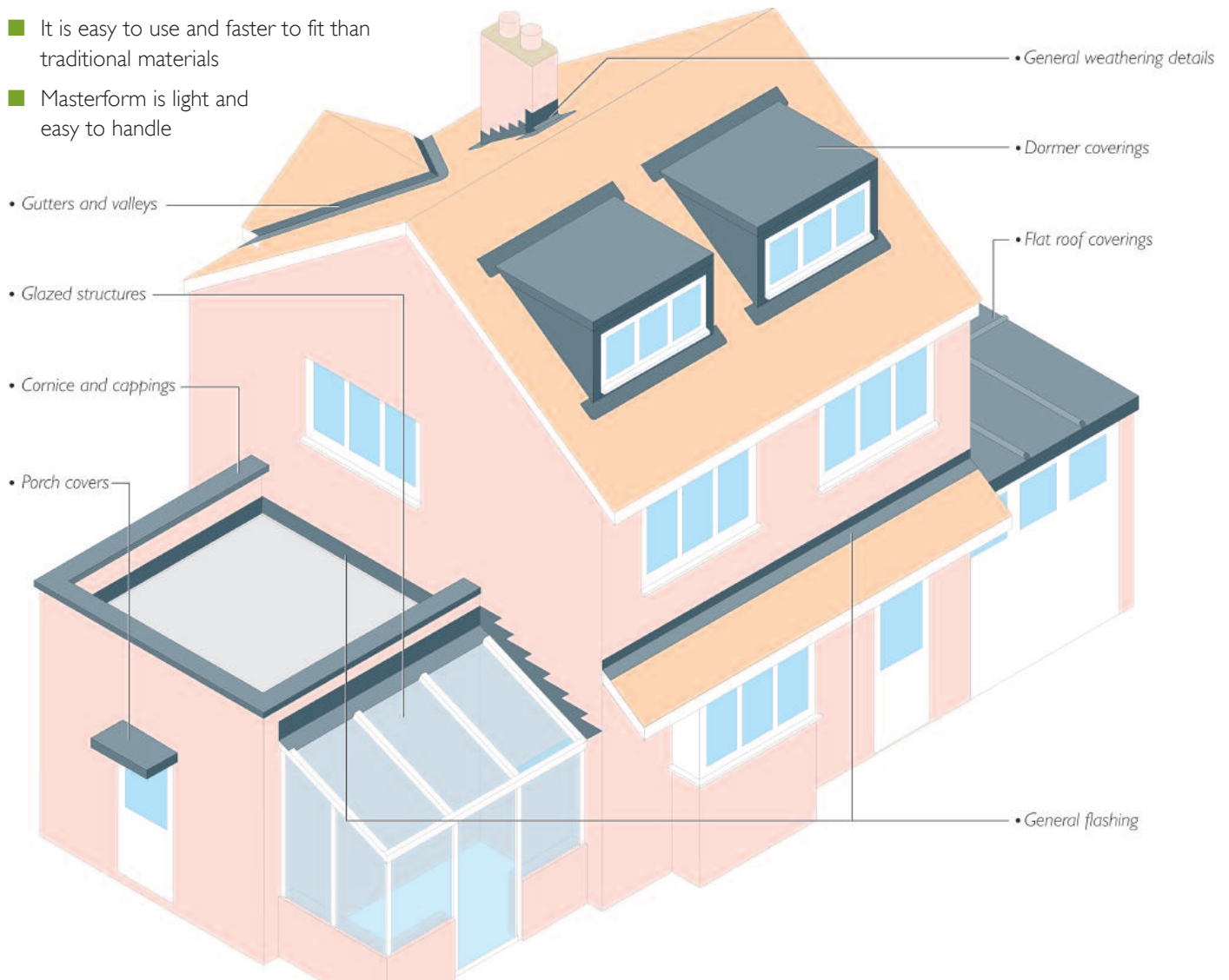
For jointing techniques see Fitting instructions.



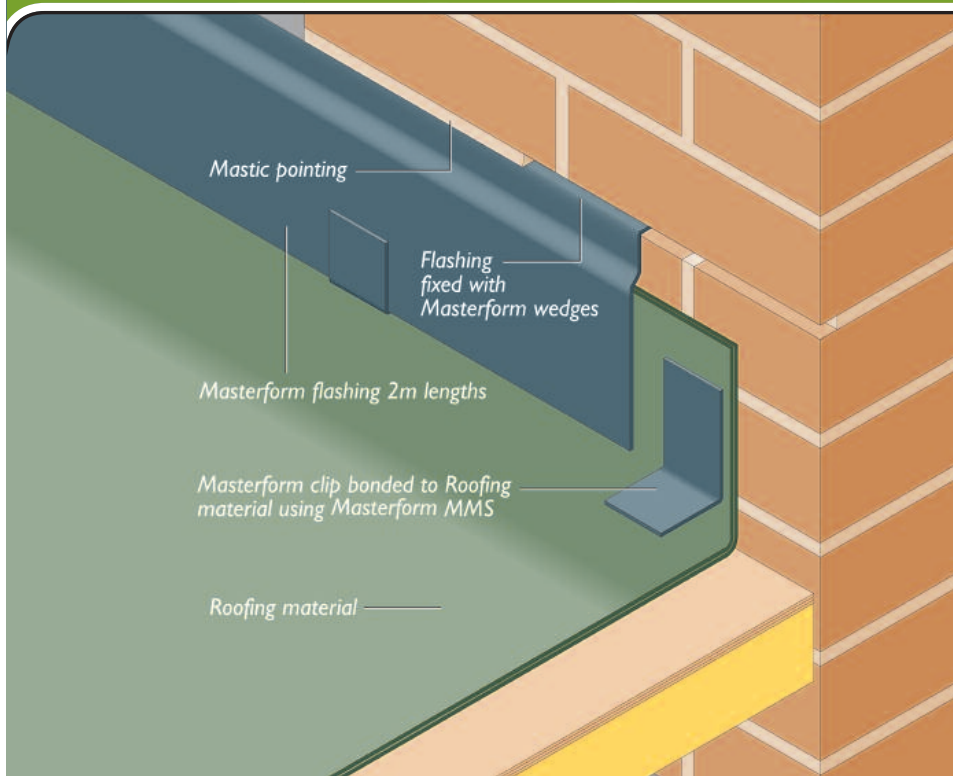


The Masterform Weathering System has many benefits for the specifier, installer and owner:

- It can be detailed to look just like traditional materials
- There is no value from recycling Masterform
- Masterform can be installed by any roofing contractor
- Masterform is safe to use and non toxic
- It is easy to use and faster to fit than traditional materials
- Masterform is light and easy to handle
- No hot works are required in the installation of Masterform
- Masterform has been approved for use on the restoration and conservation of many listed and heritage buildings



Masterform® – General Flashing Details



Masterform can be used to carry out standard flashing details to nearly all roof coverings. Due to its flexible nature there is no restriction on flashing lengths. Clips and retaining straps can be bonded to the substrate using the Masterform MMS or if needed, the flashing itself can be spot adhered to the walls or roof coverings in highly exposed areas.

Masterform is very malleable allowing the flashing to be dressed easily into deeply profiled tiles or roof sheets. Flashings are fitted in the same way as traditional materials with wedges being formed from the sheet material and driven into a chase. Pointing should preferably be flexible but a mortar mix can be used if desired. No patination oil or further finishing is required.

Masterform is ideal for use as a flashing material on easily accessible single storey roof areas commonly found on schools and other institutional buildings that are often unoccupied at night and weekends.



Advantages

- Ideal for straight and stepped flashings
- Fast to fit with no restriction on flashing lengths
- Dresses easily into deep profiles
- Can be bonded to substrates for greater security
- Won't be stolen for scrap value
- No finishing or patination oil required after fitting

Design Considerations

Width

- Flashings should provide a minimum of 75mm vertical cover to the roof covering or upstands below.

Length

- Can be fitted in any length but for ease of use 1.33m or 2m lengths are recommended.

Fitting

- Chases need to be 25mm deep by 10mm or the thickness of the bed joint.
- End to end joints can be lapped, bonded or welded for wider applications.
- Ensure adequate fixings and restraint to resist wind up lift.
- Wedged in the same way as a lead flashing.
- Can be fixed using non ferrous screws or clout nails.

Finishing

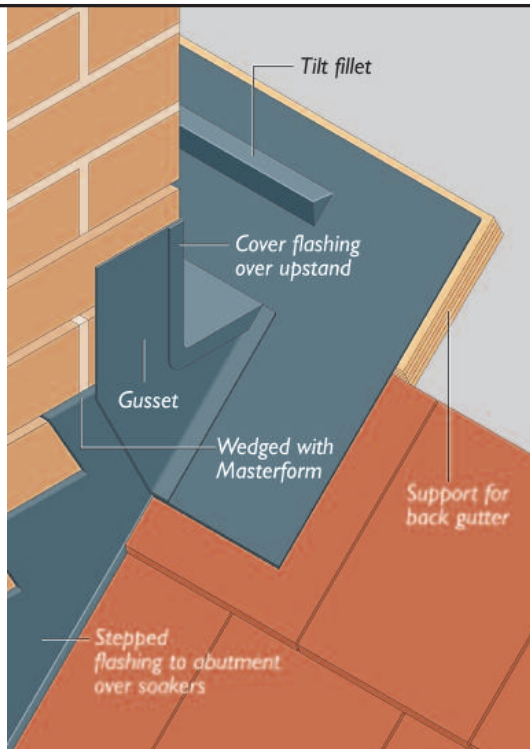
- Can be pointed using Masterform-MMS.
- Can be pointed using sand & cement mortar.

Specification

- See Masterform Specification document available on request.
- Technical data sheets available on request.

Supply

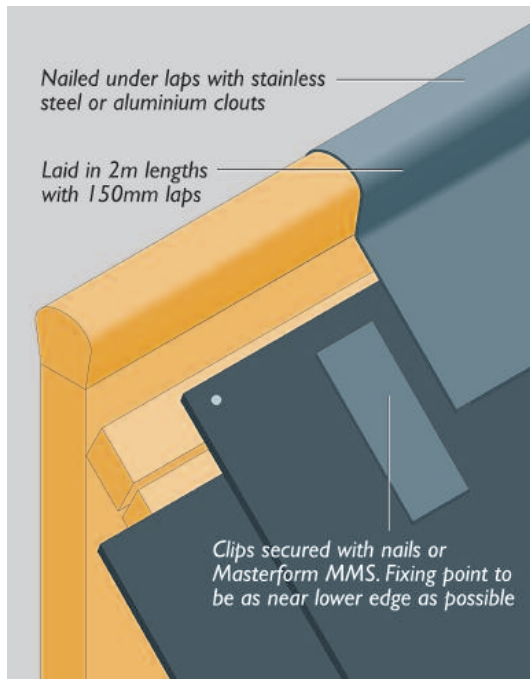
- Fitting instructions included with all consignments.
- The Masterform weathering system is available directly from NICHOLSON 0845 0098 980



Masterform is a good choice for general weathering details. Chimney flashings can be fitted quickly and easily without the need of gas welding equipment on the roof. The Masterform jointing method allows gussets to be bonded into place and re-tiling or slateworks can be completed with confidence without having to wait for the joint to fully cure.

Masterform back gutters and weathering details can be fitted in long lengths without the requirement for extra timber work, steps, drips and rolls normally associated with traditional materials.

Ridge and hip flashings are quickly formed and can be fixed continuously to the slates using the Masterform MMS if necessary due to exposed conditions. The traditional appearance of the detail is retained.



Advantages

- Can be used for hip and ridge flashings
- Chimney flashing and back gutters
- No need for gas welding equipment on the roof
- Extra wide gutters in one piece
- Can be bonded to substrates for greater security
- Retains a traditional appearance
- Unaffected by extreme temperatures

Design Considerations

Width

- To suit detail. In normal circumstances a minimum of 150mm cover should be given to pitched slate and tile roofs.

Length

- Can be fitted in any length but for ease of use 1.33m or 2m lengths are recommended.

Fitting

- End to end joints can be lapped, bonded or welted for wider applications.
- Ensure adequate fixings and restraint to resist wind up lift.
- Masterform can be spot adhered to the substrate using Masterform-MMS.
- Can be fixed using non ferrous screws or clout nails.

Finishing

- No surface finishing required.
- Can be pointed using Masterform-MMS.
- Can be pointed using sand & cement mortar.

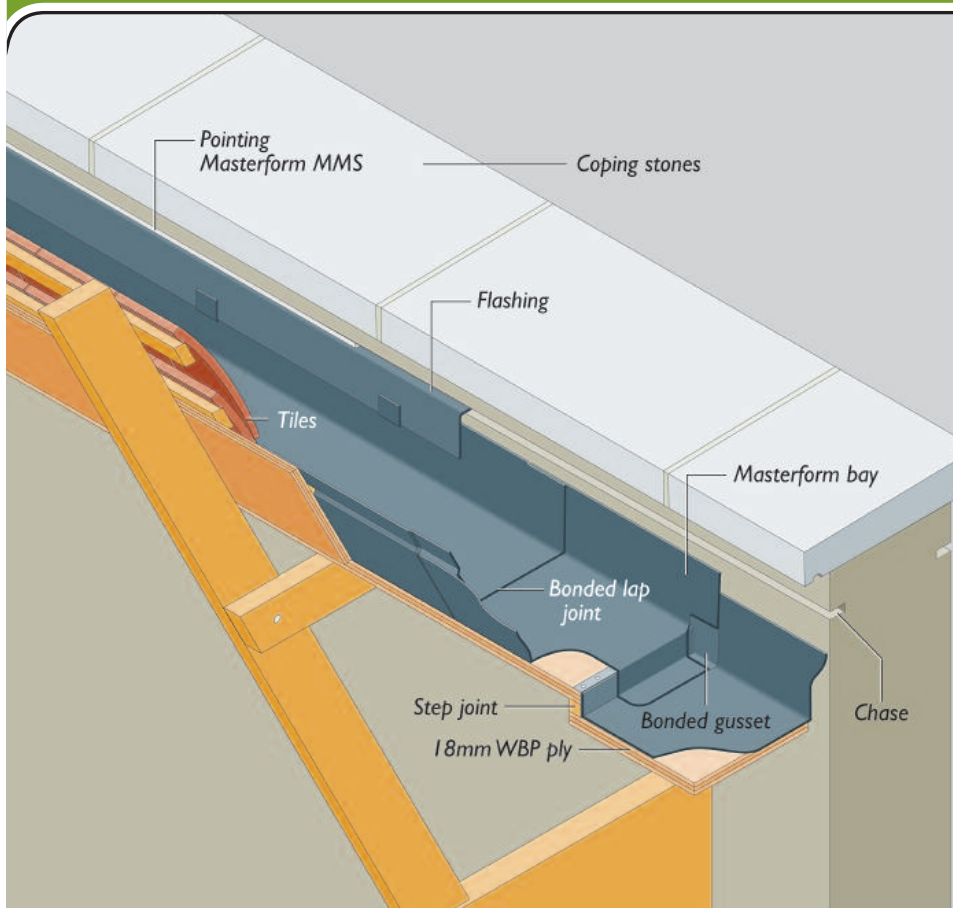
Specification

- See Masterform Specification document available on request.
- Technical data sheets available on request.

Supply

- Fitting instructions included with all consignments.
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Masterform® – Gutters and Valleys



Masterform provides a suitable alternative weathering material for gutter and valley linings and can be laid in the traditional manner with steps, drips and rolls as necessary. Alternatively, where height restrictions limit the construction of stepped gutters, Masterform can be used to form continuous linings without the need for expansion joints. Problems associated with long bays and shallow drips can be easily overcome with Masterform.

Due to the light weight of this material it can be easily preformed and moved into position or formed in situ if preferred. The flame free jointing method ensures that risks associated with hot works are removed.

Where Masterform is considered for replacement works to listed and heritage buildings one advantage is that it can be fitted to the existing substrate construction without the need to adjust or adapt the original fabric of the building.



Advantages

- Can be laid in long lengths
- No steps or drips necessary
- No hot works
- Quickly and easily fitted
- Traditional appearance
- Excellent for height restricted applications

Design Considerations

Width

- To suit detail. Max material width 1250mm. Wider applications can be joined using wood cored roll joints or a flat bonded joint.

Length

- To suit detail. Max roll length 4m. Longer applications can be joined using steps where applicable or flat bonded joints.

Fitting

- End to end joints can be bonded or traditional step joints where existing.
- Gutters can be laid to a continuous fall with no steps to reduce height in gutter build up.
- Falls should be 1:80.
- Ensure adequate fixings and restraint to resist wind up lift.
- Masterform should be spot adhered to the substrate using Masterform-MMS.
- Should be fixed using non ferrous screws or clout nails.

Finishing

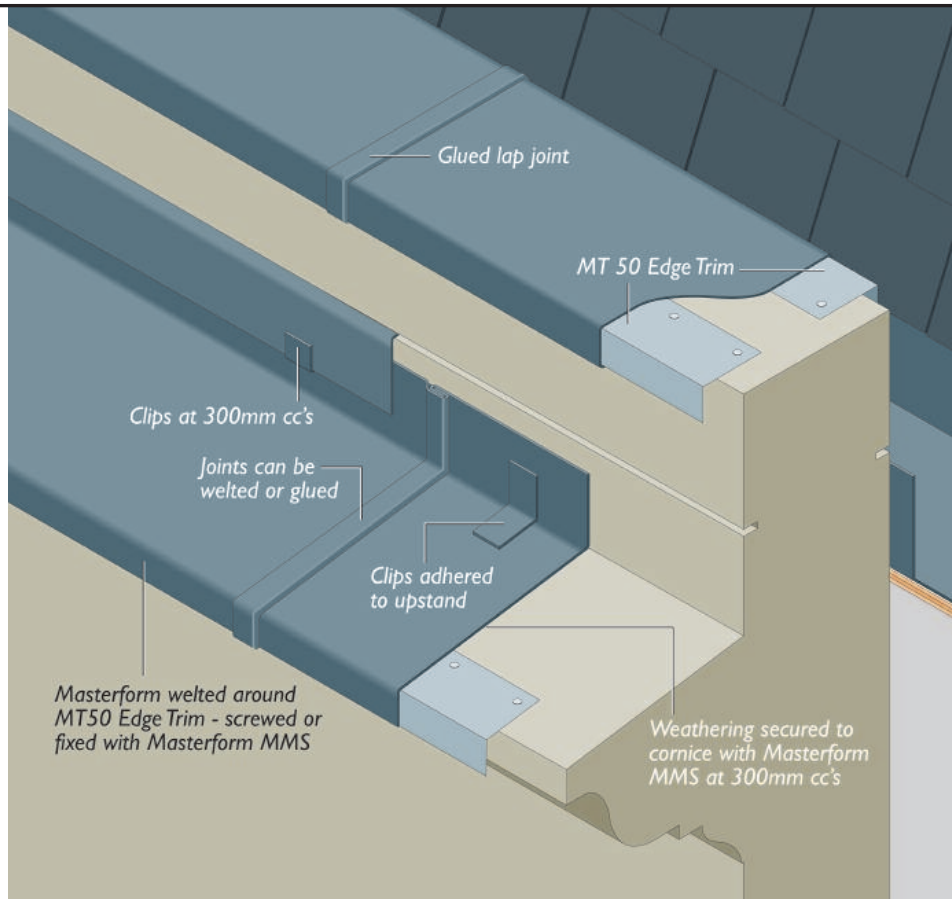
- No surface finishing required.

Specification

- See Masterform Specification document available on request.
- Technical data sheets available on request.

Supply

- Fitting instructions included with all consignments.
- The Masterform weathering system is available directly from NICHOLSON 0845 0098 980



Cornice and parapet cappings are easily and quickly formed in Masterform. Traditional details such as welts and drips can be used and the MT50 or MT75 trims are required to provide a continuously supported drip edge which is secure against wind uplift. Alternatively panels can be lap jointed for speed and ease of installation. Masterform can be bonded directly to the substrate, including masonry, using the Masterform MMS which ensures a very secure detail.

Upstand collars and penetration details are simply formed using Masterform. Upstands and penetrations such as balustrades, handrails and pipework are weathered at the junction with the flashing material.

Masterform can also be used for weathering stringcourses, window heads, buttresses, pilaster and column cappings.



Advantages

- Very secure detail
- Clean lines & uniform drips
- Balustrade & penetration details easily accommodated
- Grey & Black material giving a smart appearance

Design Considerations

Width

- To suit detail. Material width needs to be wide enough to allow for drip details and abutment upstands.

Length

- Can be fitted in any length but for ease of use 1.33m or 2m lengths are recommended.

Fitting

- End to end joints can be bonded or welded for traditional appearance.
- Include MT50/MT75 edge trims for a continuously supported drip to leading edges.
- Ensure adequate fixings and restraint to resist wind up lift.
- Masterform should be spot adhered to the substrate using Masterform-MMS.
- Should be fixed using non ferrous screws or clout nails.

Finishing

- No surface finishing required.
- Can be pointed using Masterform-MMS.
- Can be pointed using sand & cement mortar.

Specification

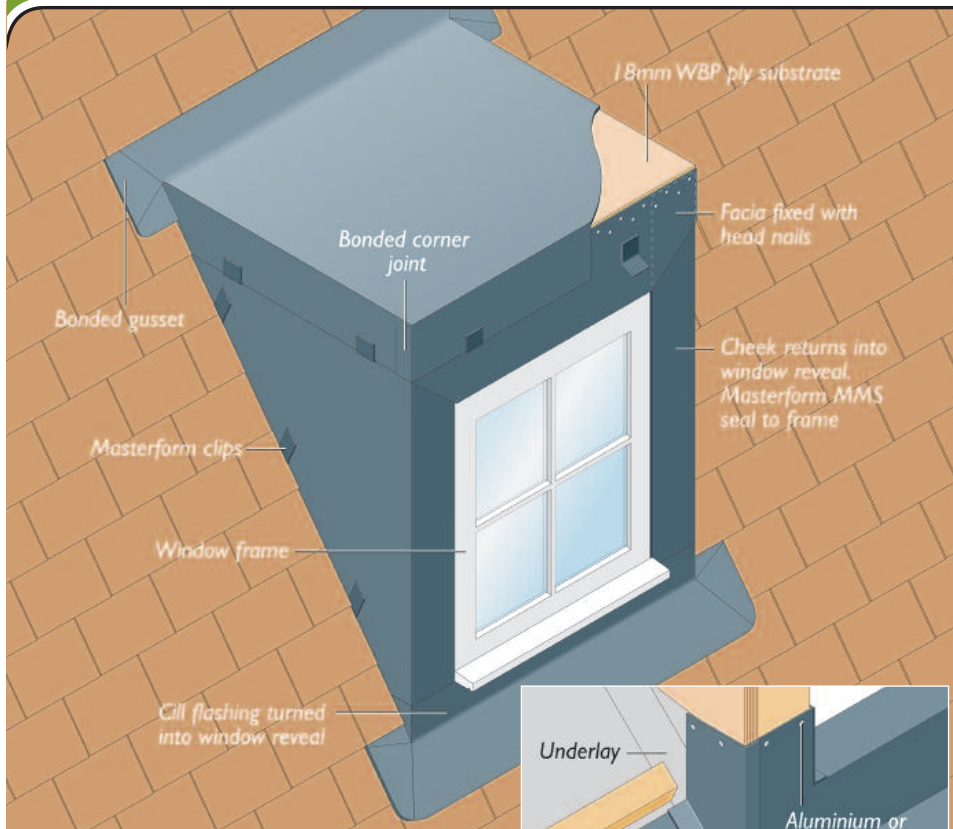
- See Masterform Specification document available on request.
- Technical data sheets available on request.

Supply

- Fitting instructions included with all consignments.
- The Masterform weathering system is available directly from NICHOLSON 0845 0098 980



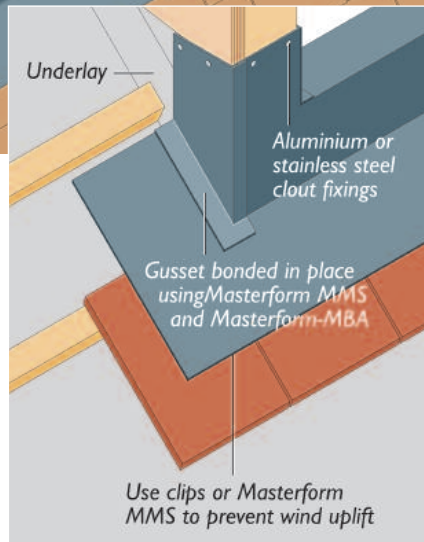
Masterform® – Dormer Coverings



Masterform can be used for dormer tops, dormer cheeks and apron flashing details. The different sizes available in the Masterform range provide flexibility in detailing dormer tops with rolls, welts or lap joints. Masterform is particularly useful for instances where a dormer top falls back towards the main roof and is too large for a single bay. Rather than having to form a separate gutter detail, the Masterform sections can be bonded together to form a watertight covering.

Dormer apron flashings can be installed without the need for laps or welted joints which is useful where the dormer width is longer than normal. Gussets and return details are formed and bonded into place using Masterform MMS.

Dormer cheeks are fitted in the normal manner using welts and lap joint as necessary. The Masterform panels should be spot adhered to the timberwork to prevent wind uplift. The free hanging edge should be retained with clips in the traditional manner or can be adhered directly to the cheek using Masterform MMS.



Advantages

- External and internal dormer weatherings
- Traditional detailing of aprons, cheeks and tops
- Can be detailed using timber rolls, welts or lap joints
- Ideal for dormer tops draining back to the roof
- Quick installation

Design Considerations

Width

- To suit detail. Max material width 1250mm. Wider applications can be joined using wood cored roll joints or a flat bonded joint.

Length

- To suit detail. Max roll length 4m. Longer applications can be joined using wood cored roll joints where applicable or flat bonded joints.

Fitting

- Large dormer cheeks can be welted in the traditional manner.
- Cheeks should be adequately fixed using clips to free edges and spot adhered to the substrate using the Masterform-MMS.
- Dormer tops can utilize wood cored roll joints for a traditional appearance.
- Masterform MT50 or MT75 edge trims can be used to form a continuously clipped drip detail.
- Masterform roof bays should be spot adhered to the substrate using Masterform-MMS.
- No underlay should be used.
- Should be fixed using non ferrous screws or clout nails.

Finishing

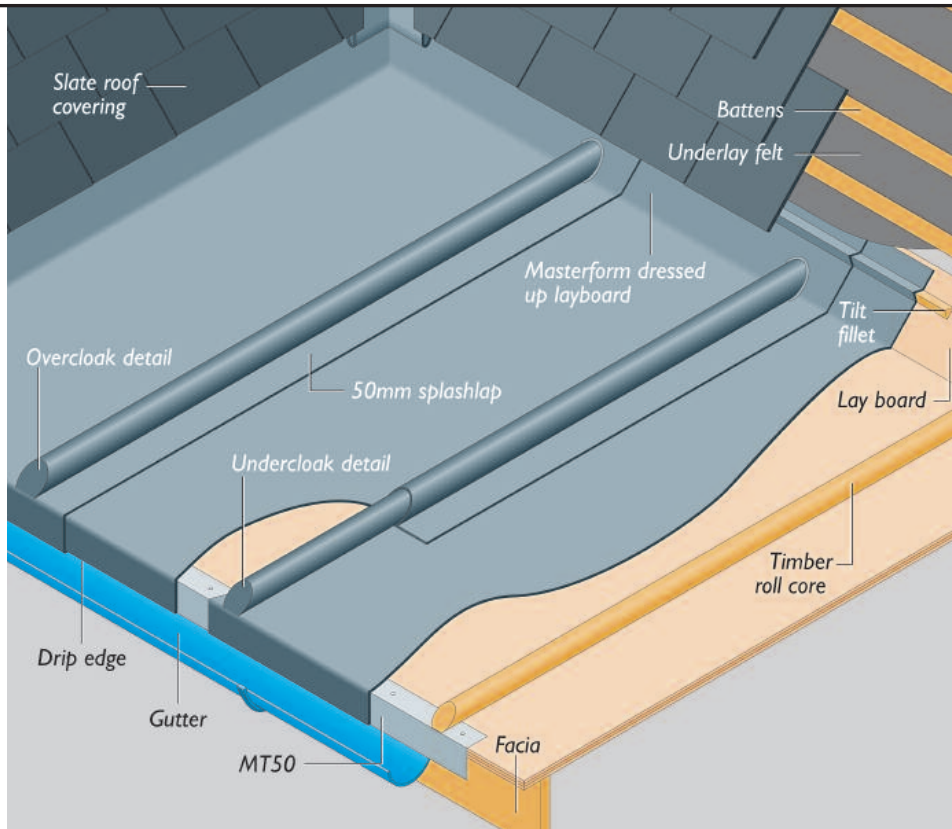
- No surface finishing required.

Specification

- See Masterform Specification document available on request.
- Technical data sheets available on request.

Supply

- Fitting instructions included with all consignments.
- The Masterform weathering system is available directly from NICHOLSON 0845 0098 980



Traditional flat roof details can be replicated in Masterform so that the overall aesthetic appeal is retained without the risk of theft often associated with fully supported metal roof coverings. All traditional details including roll heads, roll ends, steps, drips and abutments can be made in Masterform using very similar methods to traditional roofing.

Unlike traditional fully supported metal roofing Masterform can be laid on a warm roof construction where the roof void will not need ventilating. Whilst it is recommended that Masterform is installed in similar size bays to traditional roofing for visual purposes, these dimensions may be increased in length and width where necessary as traditional size restrictions do not apply to this material. Masterform should not be laid on an underlay.

Bays should be spot adhered to the substrate using the Masterform MMS to provide security against wind uplift. No finishing treatment is required for the Masterform material.



Advantages

- All traditional flat roof details can be carried out in Masterform
- Flexibility on bay sizes
- No ventilation required for warm roof constructions
- Existing substrates and detailing can be retained for listed and heritage buildings

Design Considerations

Width

- To suit detail. Max material width 1250mm. Wider applications can be joined using wood cored roll joints or a flat bonded joint.

Length

- To suit detail. Max roll length 4m. Longer applications can be joined using wood cored roll joints, steps where applicable or flat bonded joints.

Fitting

- Ensure substrate is fully supported. No ventilation needed for warm roof application.
- Flat roofs can utilize wood cored roll joints for a traditional appearance.
- No underlay should be used.
- Masterform MT50 or MT75 edge trims can be used to form a continuously clipped drip detail if needed.
- Masterform roof bays should be spot adhered to the substrate using Masterform-MMS.
- Should be fixed using non ferrous screws or clout nails.

Finishing

- No surface finishing required.

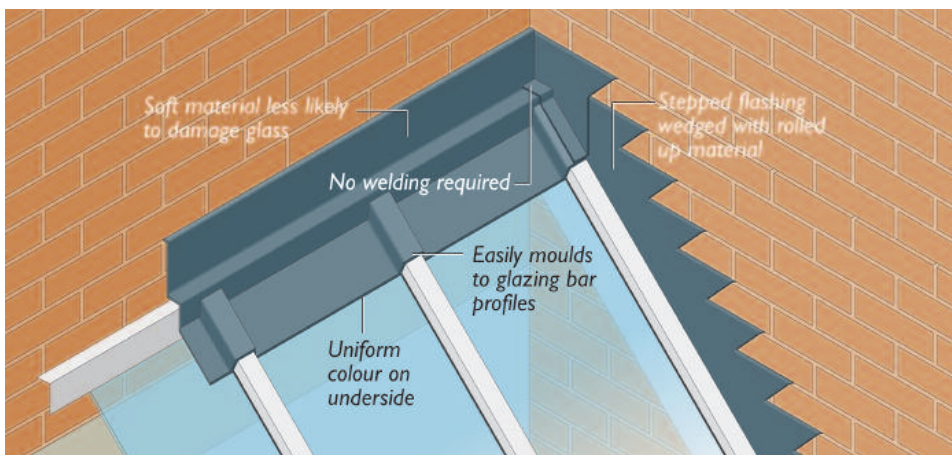
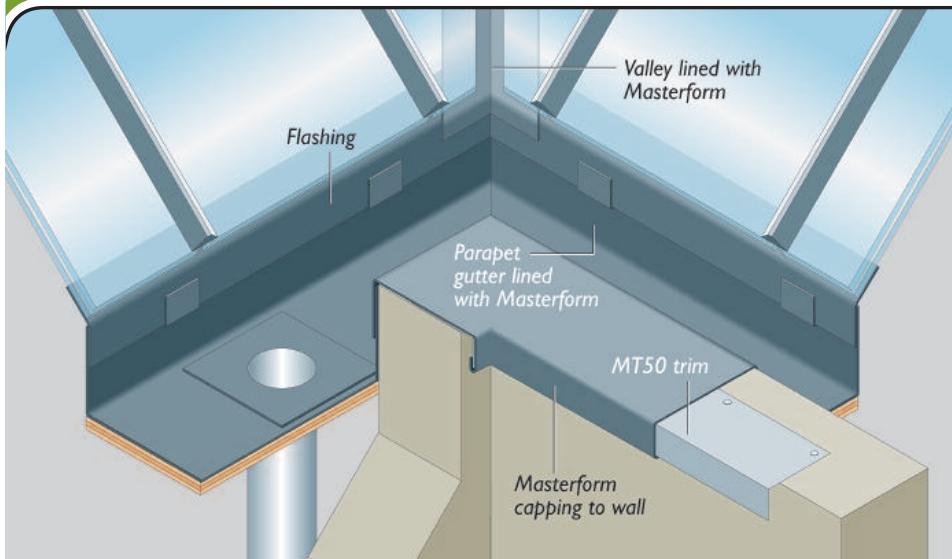
Specification

- See Masterform Specification document available on request.
- Technical data sheets available on request.

Supply

- Fitting instructions included with all consignments.
- The Masterform weathering system is available directly from NICHOLSON 0845 0098 980

Masterform® – Glazed Structures



Masterform is a particularly useful and versatile element in the construction of conservatories, orangeries, and other glazed structures.

Gutters can be created to nominal falls without steps providing reduced height build up in the gutter construction. This can reduce construction and material costs.

Masterform flashings mould easily to dress over glazing bar profiles and reduce the risk of damage to the glazed units associated with dressing metal flashings onto glass. Where required, caps can be dressed over the glazing bars and glued in position using the MMS rather than having to weld them as would be the case with metal flashings incurring further risk of damage to the glazing units. Where water drains over the flashings Masterform will not cause unsightly staining to glass or other materials below. From inside Masterform retains a visually even grey colour.

Masterform MMS can be used to bond or seal Masterform material to glass or metal components.

No patination oil or other protection is needed reducing risk of marking glass.



Advantages

- Reduces the need for steps and drips to gutters
- Reduced labour in construction
- No staining to glass from water run off
- No hot works or naked flames near glass
- Soft material will not scratch glass
- Easy to dress to profiles. Reduce possibility of damage to glass through overdressing

Design Considerations

Width

- To suit detail. Flashings should provide 75mm vertical cover to glazing or coverings below,

Length

- Can be fitted in any length but for ease of use 1.33m or 2m lengths are recommended.

Fitting

- Material should dress over glazing bars up to 25mm in height.
- Large glazing bars that protrude more than 25mm may need a separate cover cap formed to the head of the glazing bar and bonded to the flashing.
- Ensure free edges are adequately clipped to prevent wind uplift or bonded to the substrate material.
- For gutters and valleys see page 6.

Finishing

- No surface finishing required.

Specification

- See Masterform Specification document available on request.
- Technical data sheets available on request.

Supply

- Fitting instructions included with all consignments.
- The Masterform weathering system is available directly from NICHOLSON 0845 0098 980





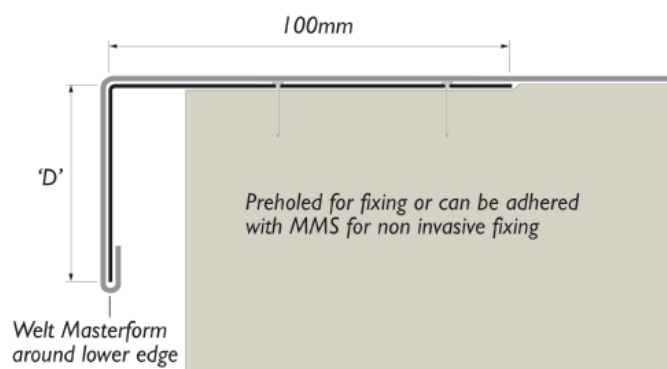
Masterform Technical Data

Material	Aluminium expanded metal lath embedded in a silian modified polymer
Thickness	Approx 2.1mm
Weight	3.6kg/m ²
Colour	Available in grey and black
Temperature	Resistant to temperatures between - 40°C and + 90°C Can be applied in temperatures between -10°C and + 40°C
UV & Ozone	Resistant to UV radiation and ozone
Guarantee	20 year manufacturers material performance guarantee
Fire Safety	Non combustible
Environment	Polymer - MAL code 00-1 (component A) and 1-1 (component B)
Accreditation	British Board of Agrément Certificate 11/4876

Masterform Edge Trim

Made from 0.5mm aluminium, this trim is designed specifically for use with the Masterform Flashing System. It is pre holed and is adjustable to provide a drip edge to any roof pitch. It is supplied in 1m lengths and can be trimmed to length and mitred at corners.

It provides a supported drip edge and also continuous clipping against wind uplift. Ideal for use on parapets and cornices and wherever a drip detail is required.



'D' downstand dimension	Code
50mm	MT50
75mm	MT75

Available in grey or black

Description	Code
Masterform 4m x 1250mm	MF1250
Masterform 4m x 1000mm	MF1000
Masterform 4m x 930mm	MF930
Masterform 4m x 830mm	MF830
Masterform 4m x 760mm	MF760
Masterform 4m x 730mm	MF730
Masterform 4m x 620mm	MF620
Masterform 4m x 510mm	MF510
Masterform 4m x 450mm	MF450
Masterform 4m x 410mm	MF410
Masterform 4m x 310mm	MF310
Masterform 4m x 245mm	MF245
Masterform 4m x 200mm	MF200
Masterform 4m x 175mm	MF175
Masterform 4m x 150mm	MF150
Masterform Bonding Agent 50g	MBA50
Masterform Mastic/Sealer 290ml	MMS290

Masterform System Accessories

Masterform Edge Trim 50mm downstand	MT50
Masterform Edge Trim 75mm downstand	MT75

Technical Support:

Nicholson are please to offer an excellent Technical support service. Please contact us on **0845 0098 980** or email your enquiry through to us technical@nicholsonsts.com We can arrange for a representative to call in to show you this product in more detail (subject to location).

Availability:

Masterform is dispatched nationwide on a 24 hrs service and can be ordered directly from Nicholson. Please call the sales team for further information.

Limitations:

Masterform is not suitable for use in areas where water run-off from copper or bitumen roofing drains over the material.



Masterform is a unique alternative weathering material providing a long term waterproof covering to areas where traditional roofing materials such as lead, zinc and copper would normally be used. It is capable of being installed to the traditional detailing normally associated with these materials which are inherently vulnerable to theft due to scrap metal values.



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