

...simple by design

| aluminium | zinc | copper | steel |

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MET-SEAM® APPLICATIONS



COPPER ROOF

PRIVATE HOUSE

Met-Seam MS 460 using Mill Finished Copper to a Private House in Co. Galway.



PRE-PATINATED COPPER FAÇADE

CHURCH

Met-Seam MS 460 using Pre-Patinated Copper to Ballymena Baptist Church in Co. Antrim.



ROOF

LARGYMORE PRIMARY SCHOOL

Met-Seam MS 460 using VM Zinc Quartz Plus to the roof of Largymore Primary School in Lisburn Co. Down.



ROOF LIGHTS

DOWNSHIRE HOSPITAL

Met-Seam MS 460 using VM Zinc Quartz Plus to the roof Lights on Downshire Hospital Co. Down.



ZINC ROOF

PRIVATE HOUSE

Met-Seam MS 460 using VM Zinc Quartz Plus to roof, fascia, soffits, gutters and downpipes.



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COVER WIDTHS, PITCH & SPANNING

Met-Seam® MS Pro are available in cover widths of 360mm, 410mm and 460mm.

There is no theoretical limit to the length of the panels however consideration should be given to the accommodation of thermal movement, the practicalities of transportation and site handling.

WIND LOADINGS

The wind loading must be calculated by a structural engineer to whom Met-Seam Ltd will provide a table to assist in the calculation. The table gives maximum clip spacing permissible for corresponding wind loadings.

Spacing's are derived using a clip safe working load of 0.388kN, which incorporates a factor of safety 3.0.

All loads are only valid for clips fixed using two Met-Seam® MS Pro stainless steel screws per clip, which are capable of withstanding 0.2kN pullout force each with a safety factor of 3.0.

The first two clips must be less than 150mm and 300mm from the eaves and ridge followed by the centres as calculated by a structural engineer ranging between 300mm – 600mm maximum c/c

PERFORMANCE

Met-Seam® MS Pro are a high quality system manufactured from the finest of materials. The system has successfully performed both in practice and under controlled laboratory test conditions in the United States, including extreme (hurricane) weather tests.

The materials are virtually maintenance free and offer the most durable options available with life expectancy beyond that of the building design life.

THE ENVIRONMENT

Met-Seam Limited has carefully selected the choice of materials for their aesthetic and environmental credentials.

The metals used have a high re-cycled content, reducing energy used in production and extending the lifecycle of valuable resources.

GUARANTEES & WARRANTIES

Upon request and after a site inspection of new works by Met-Seam Limited and depending on any recommended remedial work being carried out, Met-Seam Limited will issue the building owner with a ten year systems warranty.

The approved Met-Seam installer will match this warranty with a ten year workmanship warranty.

PACKAGING

Met-Seam® MS Pro is manufactured in a controlled environment thereby guaranteeing standard of finish. Each production is project specific and dispatched in custom made crates for delivery to site.

DELIVERY

Met-Seam Limited will endeavour to deliver on time every time but we accept no responsibility for late deliveries. We can organise the delivery or contractors can arrange their own collection. The client becomes responsible for the materials once they have left our premises. Off-loading is the responsibility of the contractor.

SITE INSTALLATION PROCEDURE

Site Instruction Guides are available from Met-Seam Ltd. in hard copy, CD format or by visiting www.metseam.com

SPECIFICATIONS

Met-Seam will assist in the preparation of specifications and can supply project specific specifications on request.

DESIGN

Met-Seam Ltd will assist Architects and Specifiers with designs and details. The earlier we get involved the better as this will keep continuity through the various stages of design, planning, tendering, installation and maintenance, ensuring the client gets a first class roof which has been accurately designed, correctly detailed, installed by a competent contractor and inspected by Met-Seam Ltd.

TRAINING

Met-Seam Ltd are dedicated to ensuring that Met-Seam® MS PRO ranges are installed correctly by competent and skilled operatives. We require the level of workmanship to be as high a standard as possible, therefore, all roofing contractors must attend our Training School and successfully pass our Met-Seam® MS PRO training course before they can purchase our Met-Seam® MS PRO system.

ADVANTAGES

TO THE ROOFING CONTRATOR

Met-Seam Ltd. only recommends those roofing contractors who have successfully completed our Met-Seam® MS PRO Training course on the correct installation of the Met-Seam® MS PRO range of standing seam systems.

Met-Seam Ltd have strict contractor criteria and we have carefully chosen those contractors, who have demonstrated that they have the skill level within their workforce, can pay particular attention to detail and who operate in a professional manor in the instigation of their work. We offer full technical support including on site problem solving. It is our priority that our system is installed correctly.

TO THE PRINCIPLE CONTRACTOR

Because Met-Seam® MS PRO ranges are installed on site much quicker than other systems the Principle Contractor will have the building water tight in a fraction of the time required compared to other systems, which means a faster programme allowing the internal fitting-out of the building to be started earlier.

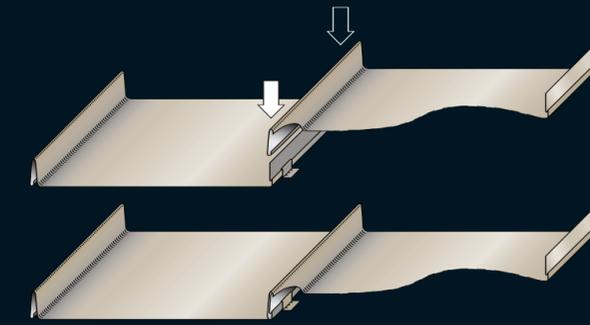
TO THE ARCHITECT

Met-Seam Ltd offer full technical advice and support both in specification and detailing. We want to get involved from the very beginning to assist in the smooth installation of our products. No Architect should ever be concerned about specifying any of our products as we are eager to assist in any way we can. On site inspections, by one of our technical team, will be carried out to ensure that our Met-Seam® MS PRO range is being installed correctly, giving peace of mind to all party's.

TO THE CLIENT

In choosing the Met-Seam® MS PRO range you can have the confidence that not only have you got a quality roofing or cladding system that is attractive, modern and environmentally friendly but that the roofing contractor who installed it has been chosen for their credentials, that we have been involved in the specification, design and inspection of the system and equally important that you will have a system that is competitively priced and excellent value for money.

MET-SEAM® TECHNICAL DETAILS



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MS PRO RANGE

Ideal for roofing and facades, Met-Seam® MS PRO ranges are highly engineered standing seam systems for those seeking the traditional appearance without incorporating traditional skills, long lead times, long installation programmes and high costs.

The unique and innovative design simply snaps together, with no need to use seaming tools or zipping up tools. Ideal for both new build and refurbishment projects, the lightweight characteristics of the system add minimum stress to an existing structure and provide easy on-site handling.

ENGINEERED STANDING SEAM FOR THE BUILDING ENVELOPE

MET-SEAM® TECHNICAL DETAILS

MET-SEAM® MS PRO RANGE UNIQUE SEAM

The design of our **Met-Seam® MS PRO** standing seam panel is quite unique and practical and includes a 'Seam' over cloak (female edge) and a 'Locking Leg' under cloak (male edge) which are both profiled into the panel.



The Seam over cloak fits over the Locking Leg and snaps into place. The Locking Leg is profiled with an anti-siphon design which doubles up to eliminate capillary action in the joints and forms the 'Receiver' to which the MS secret fixing clip is placed to secure the panel to the substrate.

The panels can be completely flat or can have a shallow rib rolled into the surface for added rigidity and aesthetics.

The standing seam which is only 40mm high x 11mm wide gives a very clean, true and straight line. It requires no site tools to form; no zipping up and once snapped into place is secured.

FASTENINGS

The **Met-Seam® MS PRO** clips are manufactured from gauge 22 grade 304 stainless steel and are hooked over the 'Receiver' which is profiled into the Locking Leg and which also doubles up as a water barrier.



The clips are fixed to the substrate using two **Met-Seam®** grade 302 HQ stainless steel screws per clip. The clips are then concealed by the next consecutive panel thus hiding all fixings.

Met-Seam® MS PRO ranges need to be fully supported on a deck which may be a low profile composite panel, high-density insulation or WBP plywood, in the same way as traditional standing seam systems are required.

MATERIALS AND FINISHES

To provide specifiers with the widest choice of materials and finishes and to meet various budget demands **Met-Seam® MS PRO** range are offered in Zinc, Copper, Aluminium and Steel.

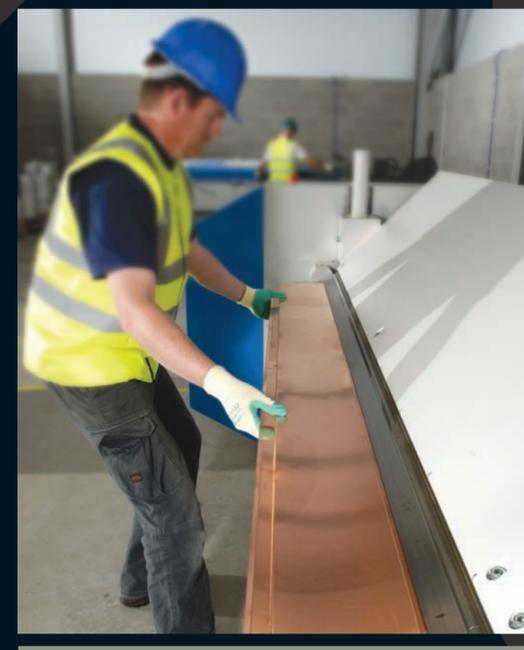


Zinc and Copper have been extensively used on traditional standing seam projects for centuries and when used with **Met-Seam® MS PRO** ranges provides a traditional appearance. Both zinc and copper come in their natural bright shiny appearance but increasingly specifiers have been choosing the pre-weathered finishes which are ideal for architecturally sensitive projects or buildings requiring a unique appearance.

The Aluminium and Steel options are available in a wide range of colours. The paint coating is a high-performance finish that provides maximum protection from UV rays, cracking, discolouring and is also non-staining. Care should be taken in the selection of metals as incompatibility between metals can cause adverse reactions. If unsure please contact us for further information. Full details of the material options are available on separate data sheets.

FLASHINGS AND TRIMS

Met-Seam® MS PRO ranges are supplied as a complete system, with all necessary flashings, trims, clips, fixings, underlay and accessories, which are available in all of the metal options, ensuring compatibility of material finish and quality.



MET-SEAM® APPLICATIONS

THE MANY APPLICATIONS OF MET-SEAM® MS460 STANDING SEAM ROOFING AND FAÇADE SYSTEM



FAÇADE

BANGOR LIBRARY

Met-Seam MS 460 using VM Zinc Quartz Plus. 11.60m high Façade on Bangor Library in Co. Down.



ROOF

SHANAGH-MORE CENTRE

Met-Seam MS 460 using VM Zinc Quartz Plus to roof and fascia of Shanagh-more Outward Bound centre in Newcastle Co. Down.



SOFFIT

LINEN GREEN VISITORS CENTRE

Met-Seam MS 460 using VM Zinc Quartz Plus to the soffit of The Linen Green Visitors Centre and Shopping Complex Dungannon, Co. Tyrone.



TAPERED ROOF

APARTMENTS

Met-Seam MS 460 using Falzonal Aluminium to tapered roof on a block of apartments at Hamilton Road Bangor, Co. Down.