

EQC

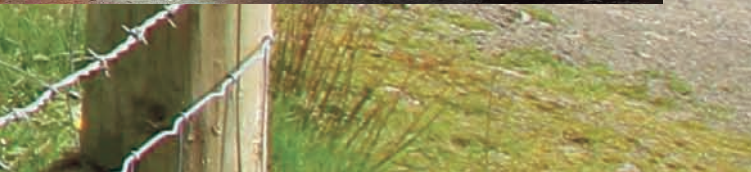
Euro Quality Cladding

Agricultural Solutions





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INTRODUCTION

Euro Quality Cladding (EQC)

EQC is a leading supplier of quality metal cladding and roofing products.

High Quality steel Coated with Plastisol or Polyester protective coatings, which are used to manufacture our wide range of cladding and roofing profiles .

The profiles are manufactured to order to high standards using the latest machinery and are available for delivery nationwide.

SUPPLY

All products are manufactured to a Quality Management System accredited to BS EN 9001:2008, products are CE marked according to the requirements of the Construction Products Regulation. A dedicated internal and external sales team provides comprehensive support, information and advice.

A nationwide delivery network ensures efficient and timely transportation of products, with a typical lead time of just five working days when ordering standard colours.

To make an enquiry, telephone 045 981 100 or send an email to: info@eqc.ie with the requirements.

Start with the profile, and then the colour, next advise the sheet lengths and quantities required. The sales team will then work out the best price and earliest delivery based on the information provided.

WHY CHOOSE EURO QUALITY CLADDING LTD

Put simply, EQC provides quality cladding at competitive prices. But there is much greater value to be gained; with a comprehensive list of supporting products and components, as well as application-specific features, such as Quattro for insulated systems and DRIPSTOP for condensation control. EQC provides a complete package with unique benefits.

PROFILES

The choice of profiles available means that EQC can supply the most suitable product for any application. Sheet profiles are available for the roof and wall, along with three liner profiles; with flashings available to close off building perimeters.

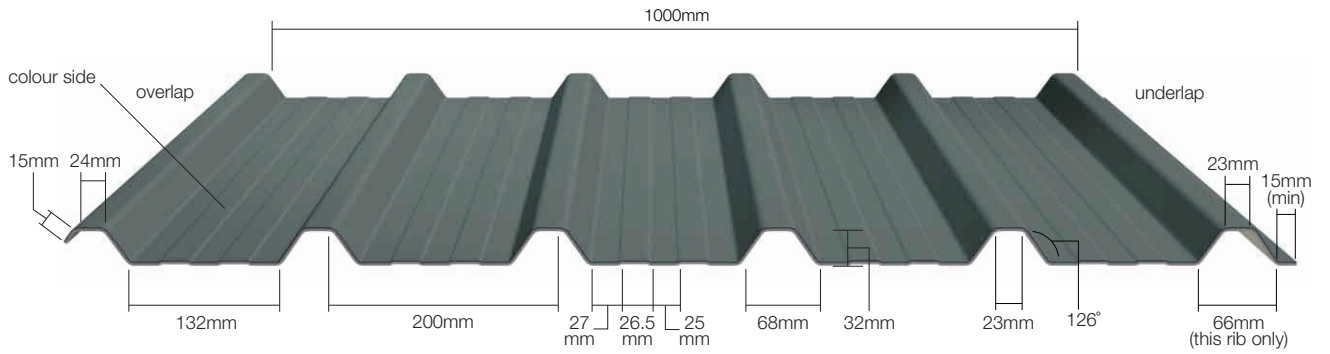
Materials

EQC supply a wide range of Tata Coated Steel for both Agricultural and Industrial use.

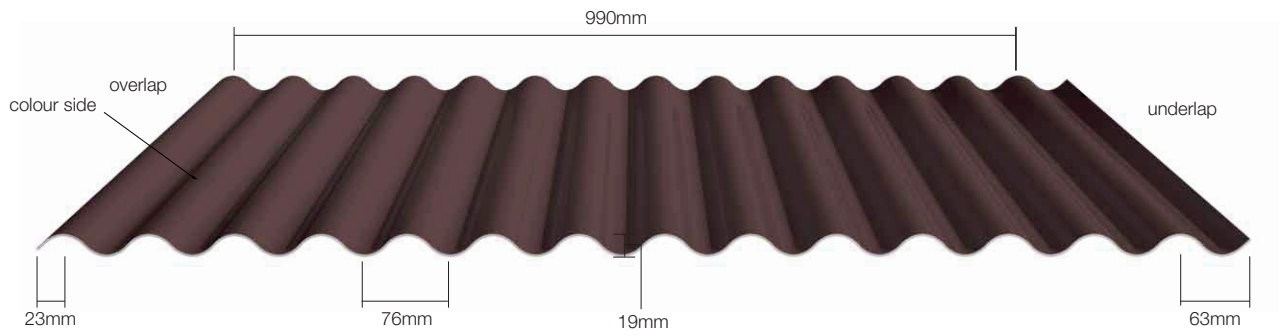
EQC can supply a wide range of flashings in a range of colours that are manufactured to complement or contrast the roof and wall cladding.

ROOF PROFILES

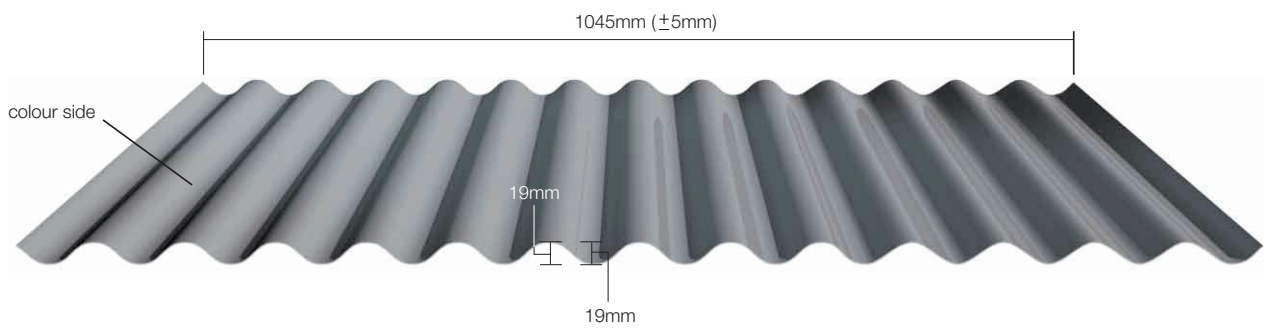
MW5RS



13.5/3 CORRUGATED

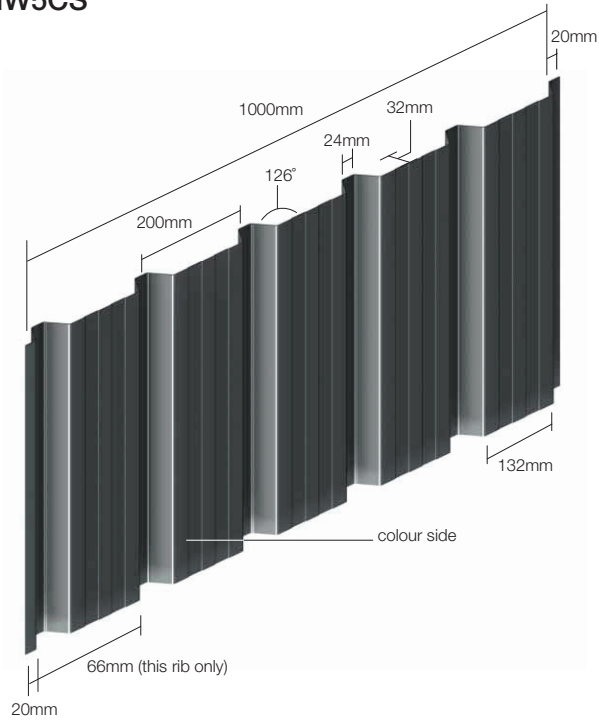


14/3 (SPACED CORRUGATED)

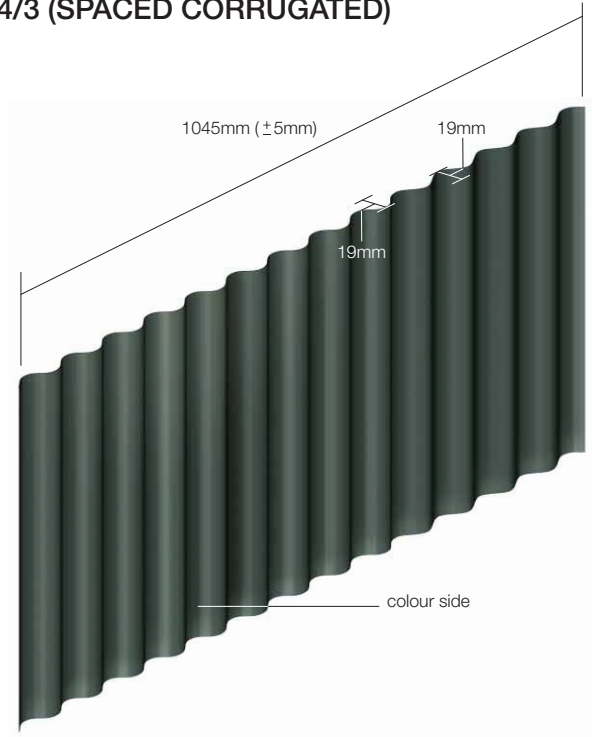


WALL PROFILES

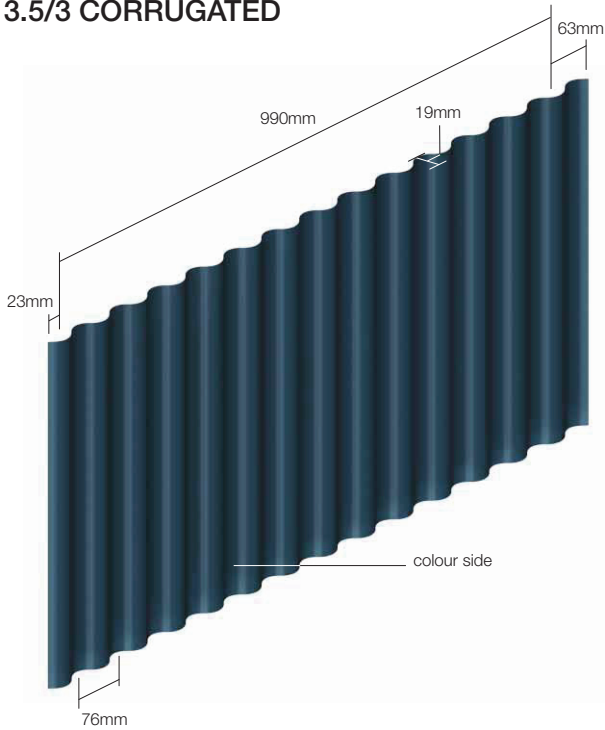
MW5CS



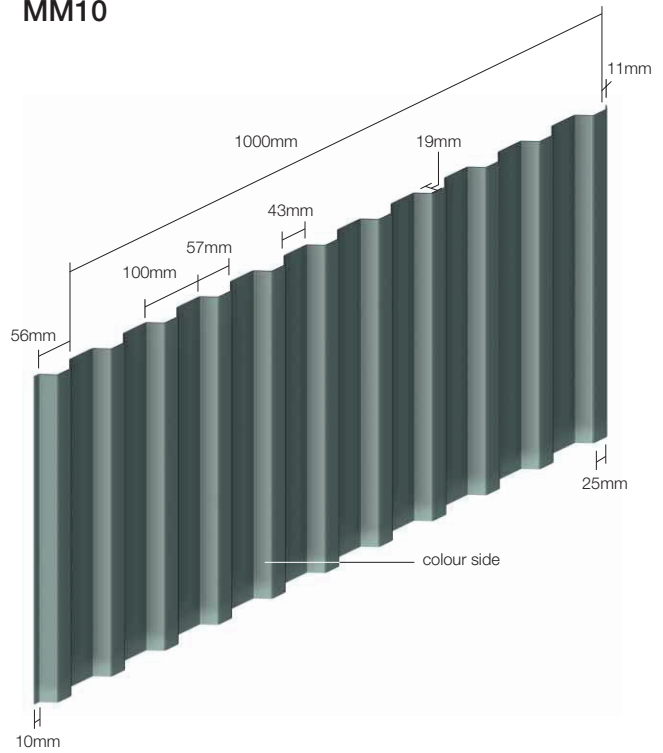
14/3 (SPACED CORRUGATED)



13.5/3 CORRUGATED

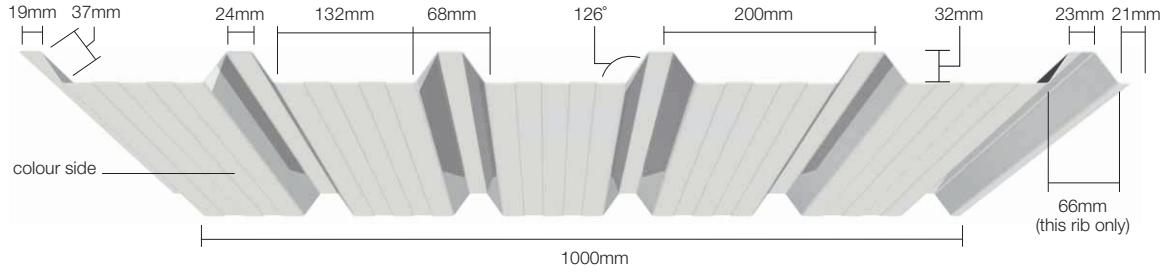


MM10

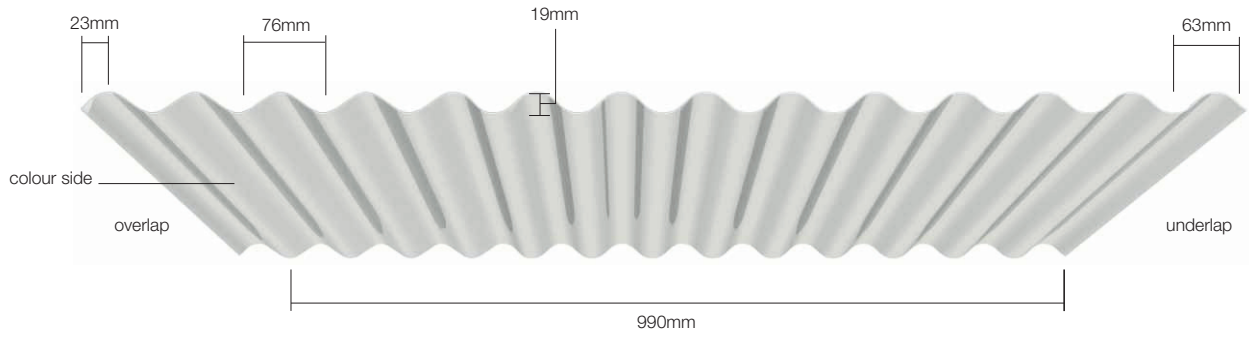


LINER PROFILES

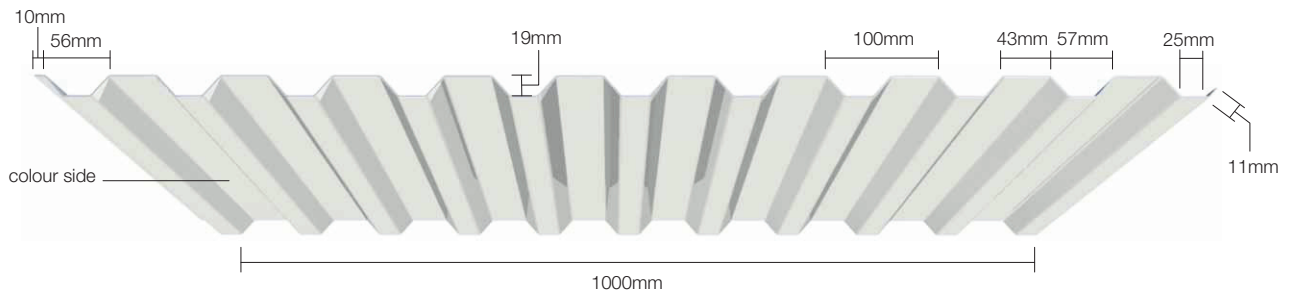
MW5LS



13.5/3 CORRUGATED



MM10



FLASHINGS

The construction industry demands a wide and varied range of flashings to seal and finish off a building.

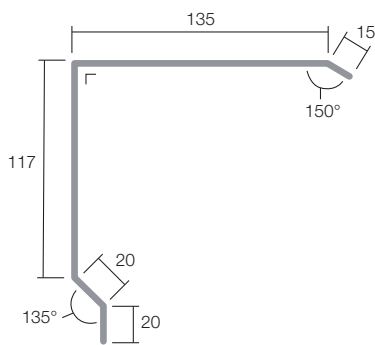
These include everything from standard perimeter flashings to ridge closures and drip flashings. If an attractive, functional finish is needed to complete a metal building envelope then the sensible choice for flashings is EQC.

Available in a range of colours EQC can supply highly finished flashings that are manufactured to complement or contrast the roof and wall cladding.

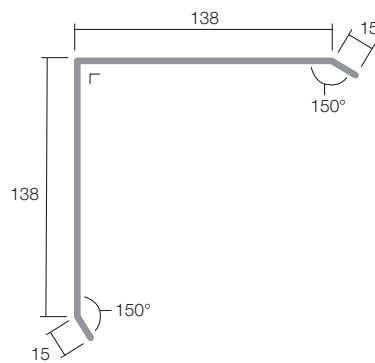
Ridge vents are available for ventilated constructions, especially useful to complement the DRIPSTOP condensation control fleece.

STANDARD FLASHING DETAILS

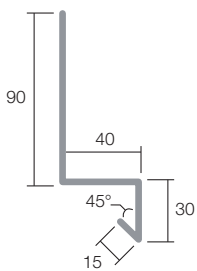
(Bespoke flashings available on request).



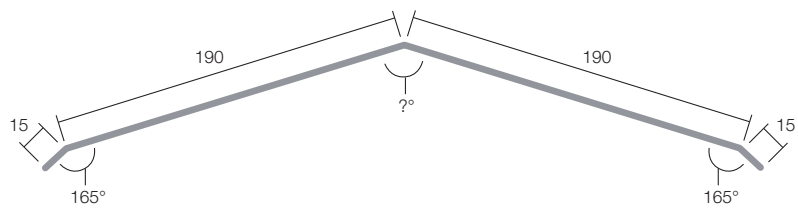
Barge



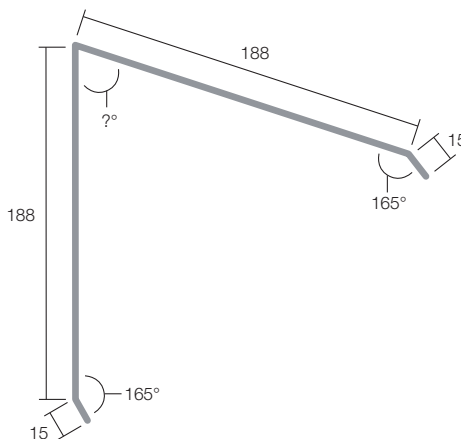
Corner



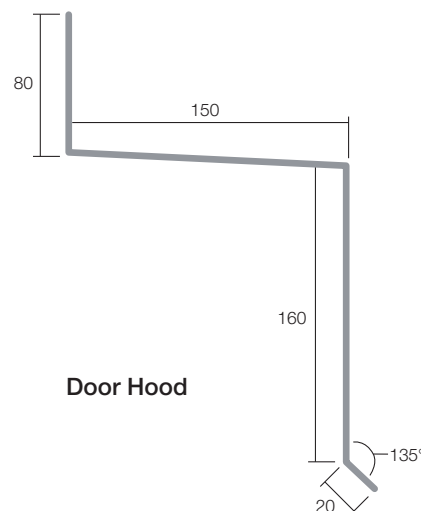
Drip



Ridge



Mono Ridge



Door Hood

Standard flashing lengths 3 metres. Longer lengths available on request.

MATERIALS – TATA COLORCOAT® LG

PRE-FINISHED STEEL FOR ROOF AND WALL CLADDING

Tata Colorcoat® LG is pre-finished steel that features a 200 micron leathergrain coating and is suitable for industrial and agricultural applications, where good performance is required at a competitive price. Colorcoat starts life as a quality steel coil that is galvanised and then coated with protective leathergrain plastisol in a continuous manufacturing process; resulting in the ideal material for durable, cost-effective roof and wall cladding.

- Durable, abrasion-resistant 200µm external coating
- Popular leathergrain emboss
- Five day lead time on standard colours
- Galvanised substrate offers good corrosion resistance
- Technical Support
- Performance guarantee up to 25 years.

STANDARD COLOURS



Goosewing Grey · 10A05



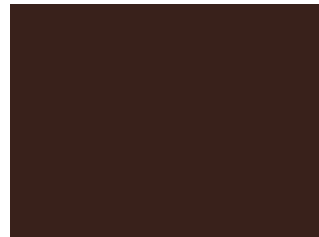
Merlin Grey · 18B25



Olive Green · 12B27



Juniper Green · 12B29



Vandyke Brown · 08B29



Mushroom · 10B19

1. The reference shown above represents the nearest colours to manufactured products and are not exact matches. For material samples please contact the office.
2. If an exact colour match between component is required it is recommended that all requirements are ordered together to ensure that they are manufactured from the same batch of material

COLORFARM® 20 BY TATA STEEL

Colorfarm® 20 by Tata Steel has been designed specifically to meet the demands of agricultural buildings including a high resistance to ammonia and fertilisers, and is guaranteed to give 20 years functional performance. It suits any farming purpose, including livestock housing and crop storage and has been tested in contact with a number of chemicals commonly found in agricultural environments. During the tests Colorfarm® was exposed to vapour, liquid, or paste, depending on the chemical being tested.

Recent testing has been undertaken which confirms Colorfarm® achieves CPI5, the best internal classification according to EN 10169:2010.

Colorfarm® 20 consists of the unique Galvalloy® metallic coating by Tata Steel which provides excellent corrosion resistance. The high build paint system has been designed to give protection against high humid conditions that are found in livestock housing, and also for vegetable and grain stores. It is guaranteed to give 20 years functional performance, providing buildings are well designed and ventilated, and is available single or double sided. Double sided Colorfarm® 20 should be used for single skin high humidity buildings.



Slate Grey · S6042



Juniper Green · 12B29

RURALCLAD® BY TATA STEEL

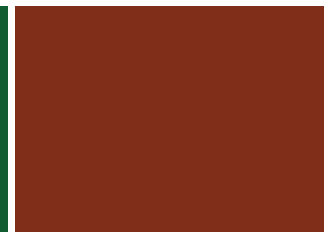
Ruralclad® is a value pre-finished steel product, designed for agricultural buildings that would only be used for dry storage e.g. implement sheds. Produced to the high quality standards expected from Tata Steel, it consists of a galvanised substrate with a nominal 25µm flexible paint system on the exterior side of the sheet and a standard high performance reverse side backing coat.

Key attributes:

- Smooth 25µm polyester coating
- Supplied with a galvanised substrate produced to EN 10346:2009
- High performance reverse side backing coat specially formulated for use in construction applications.



Dark Green



Dark Brown



Slate Blue · S4017



Black · 00E53

DRIPSTOP

CONDENSATION CONTROL FLEECE LINING FOR SINGLE SKIN METAL BUILDINGS

The DRIPSTOP condensation control fleece is an effective, affordable and convenient way to deal with the problem of condensation on un-insulated metal roofs. It is a self-adhesive fleece applied to the underside of metal sheets during the profiling process and can be used in virtually any environment where condensation is a problem. DRIPSTOP absorbs around 1kg of water per square metre of roof, with water being stored in the fleece. When temperatures rise the water starts to evaporate back into the air and the DRIPSTOP fleece dries out.

The fleece is available on MW5RS and 13.5/3 only.

Benefits include:

- No need to varnish or scorch sheet ends (endlaps and eaves) unlike alternative products
- Durable
- Easy to clean (with a hose or pressure washer)
- Pre-applied
- Self-extinguishing (rated A2-s1,d0 under EN 13501 – 1:2007)
- Bacteria resistant
- Additional sound insulation
- Rainfall noise reduction.

CONDENSATION

When the temperature and humidity conditions reach the dew point, moisture condenses on the underside of the un-insulated metal roof. If there is a lot of condensation, drops of water form and start to fall causing damage to the contents below. The traditional method for dealing with condensation is to try to insulate the roof so that the temperature on the panel never reaches the dew point. An insulated roof is more expensive than a single skin construction and is not always the most suitable choice.

If left unchecked condensate can cause damage to stored goods and materials, worsen insulation capabilities, disturb livestock and related activities inside the building and even damage the roof by accelerating corrosion and allowing frost to form.

When metal roof sheeting is used as a single-skin covering and the outside temperature falls below the temperature inside a building (usually during the night or in the winter) the roof becomes colder than the temperature inside. When warm air inside the building comes into contact with the cold roof panel it suddenly cools down which immediately increases the relative humidity of the air. When vapour reaches the dew point, condensation occurs.

Condensation is the most common form of dampness encountered in buildings. The air inside can have a high level of relative humidity due to the activity of the occupants and when this air comes into contact with cold surfaces such as cold roofs and walls it can condense, causing dampness.

HOW DOES DRIPSTOP WORK?

The basic function of DRIPSTOP is to absorb condensed water droplets, letting the water evaporate back into the air when the inside temperature rises. Roofing featuring DRIPSTOP provides a way of trapping condensate in the specially designed pockets formed in the fleece, retaining the moisture until conditions return below the dew point, when it evaporates back into the air. For this process to work it is critically important that there is some air circulation (ventilation) present.

PROFILING PROCESS

DRIPSTOP is self-adhesive and is applied to a metal sheet before the profiling process using a dedicated application machine which stands between the material de-coiler and the profile manufacturing line. As the production line is running the application machine unwinds and applies the self-adhesive condensation control fleece.

DESIGN AND INSTALLATION

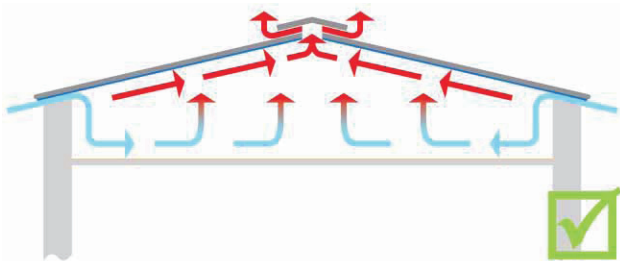
Care must be taken when installing roof panels so that the fleece is not damaged. The roof and its component parts have to be made, constructed and mounted in accordance with construction standards. Ventilation must be allowed for DRIPSTOP to work.

Note: Rooflights are not recommended for use with the DRIPSTOP product. Foam filler blocks are not recommended for use with DRIPSTOP.

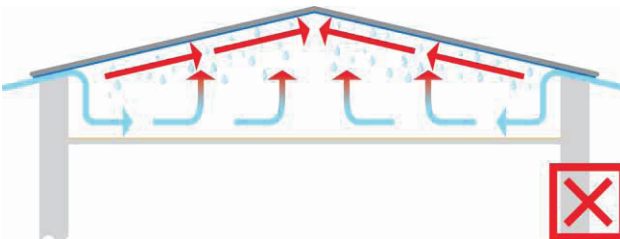
VENTILATION

When condensation occurs, DRIPSTOP serves as an absorbing medium, preventing droplets of water from falling from the roof. In order to work properly, the fleece needs to dry out during the day. For that reason adequate ventilation inside a building is obligatory i.e. cold roof = ventilated roof.

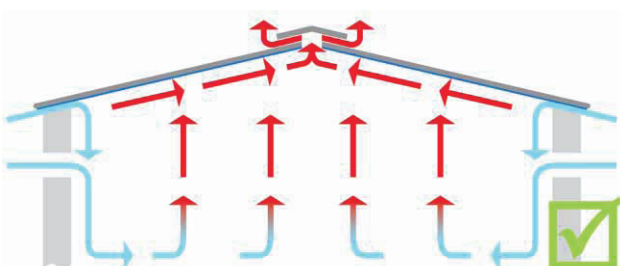
Humid air is lighter than dry air; therefore it tends to go up. This has to be taken into account when planning the ventilation system of a building. The following situations clearly demonstrate the difference between adequate and inadequate ventilation inside a building.



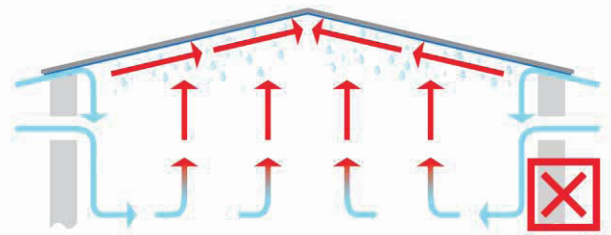
Situation 1: Adequate ventilation in an insulated building with air inflow at the sides and air outflow at the top of the roof.



Situation 2: Inadequate ventilation in an insulated building with air inflow at the sides and no air outflow possibility. The result is dripping from the roof which damages the insulation layer.



Situation 3: Adequate ventilation in an un-insulated building with air inflow at the sides and air outflow at the top of the roof.

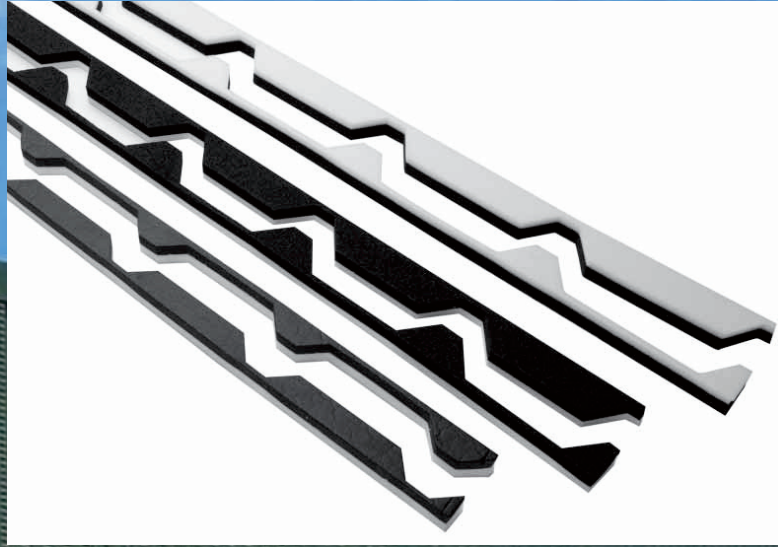


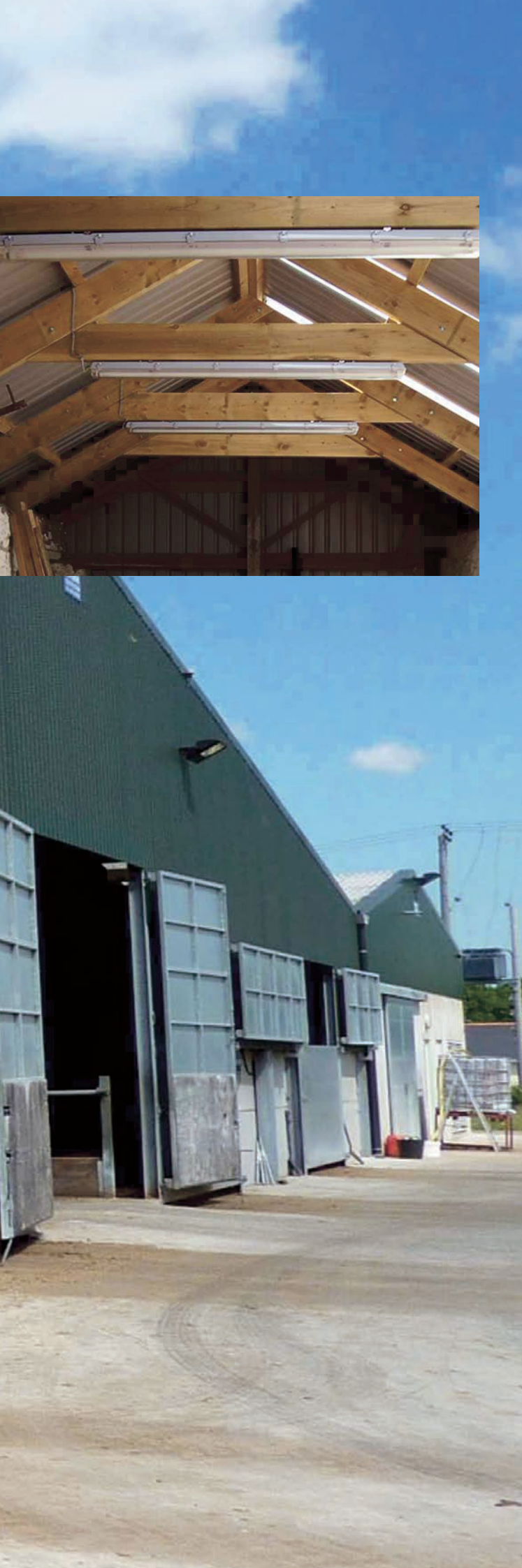
Situation 4: Inadequate ventilation in an un-insulated building with air inflow at the sides and no air outflow possibilities. The result is dripping from the roof.

ROOF CONSTRUCTION

When building a cold metal roof general construction standards should be followed. The following guidance is not comprehensive but it does highlight some of the key considerations:

- Like on any other cold roof, ventilation of the panels has to be provided along the ridge and under the eaves
- When covering newly built buildings in which water is still evaporating from fresh concrete works or roughcast, relative humidity can be temporarily very high. Additional ventilation should be considered during this period and some dripping may occur until humidity is reduced
- Do not expose the material to direct sunlight
- Do not damage the textile surface
- Before installing the roof panels the DRIPSTOP fleece should be clean and dry
- The glue is very strong and it is extremely hard to remove the fleece from the metal sheet. If the fleece is removed re-gluing the fleece will not be possible.





OPTIONAL EXTRAS

ROOFLIGHTS

Rooflights are available for single and twin-skin roof constructions from the leading manufacturers' at the most competitive rates. Rooflights are available in Polycarbonate and GRP to match the range of roofing profiles. Rooflights are not recommended for use with DRIPSTOP.

FOAM FILLER BLOCKS

Foam Filler Blocks are available for all of our profiles. They are not recommended for use in conjunction with the DRIPSTOP condensation control fleece.

FIXINGS

A range of suitable steel and timber fixings are available.

CURVED AND COCKTAILED CORRUGATED SHEETS

Smooth curved sheets are available in our corrugated profiles. This curving capability adds an extra dimension of design flexibility and functionality to agricultural buildings. Typical applications include raised canopies and curved hay barns.

We also offer cocktailed sheets. These are corrugated sheets with one end curved up. This allows for weathering when a lean-to is coming off a curved roof.

VENTED SHEETS

Vented sheets feature horizontal slots in the sheet to provide ventilation. These continuous perforations minimise water ingress whilst providing adequate ventilation and increased natural daylight within the building.



CE MARK

It is mandatory for manufacturers to draw up a Declaration of Performance and apply CE marking to any of their construction products which are covered by a harmonised European standard or conform to a European Technical Assessment which has been issued for it.

Declarations of Performance and CE labels for our products are available to download at www.eqc.ie

EQC products comply with the CPR and are manufactured to quality management systems accredited to BS EN 9001:2008 to ensure materials, processes and



procedures are maintained to the highest standards.

The introduction of CE marking for construction products represents the most significant change in a decade in the way

in which construction products are sold in Europe and is going to take some time to fully embed into the manufacture, design specification and construction process.

To help specifiers and clients understand some of the basics of CE marking the metal roofing and cladding industry has drafted a series of questions and answers to address some of the myths surrounding this subject, including:

Do all construction products have to carry a CE mark?

No, only products subject to a harmonised European standard known as a hEN are obliged to carry a CE mark.

Will a CE mark provide a guarantee?

A CE mark indicates that the product meets with a recognised and regulated European standard or assessment process; it does not offer any additional guarantee.

Should I only specify construction products which carry a CE mark?

If a European Standard or ETA is not applicable for a product it does not need to be CE marked. It does not mean that the product is inferior: in most cases the product will conform to a national standard and the manufacturing company will have detailed QA records. However, you must ensure that the product is fit for purpose.

I have been informed that a composite panel is the only roofing and cladding system that can be CE marked. Is this true?

No, this is not true. The CE marking of a composite panel is covered by BS EN 14509 but the associated products which make up the total system, such as the fasteners and rooflights, are dealt with by their own harmonised product standard or CUAP. As for the sealants used to weatherproof the joints between panels during the construction phase, these cannot be CE marked because currently there is no harmonised standard or specialist CUAP for the product.

I have been informed that twin skin roofing or cladding systems cannot be CE marked. Is this true?

A twin skin roofing and cladding system is made up of many different component parts and the nature of the system is such that specialist CUAPs or harmonised standards have been developed for the individual components to ensure that they meet their specific needs. Roof and wall cladding sheets are covered by BS EN 14782; in plane rooflights are covered by EN1013; fasteners are dealt with in CUAP 06.02/07 and spacers are addressed in CUAP 04.01112. In addition, insulation is dealt with in EN 13162:2008 and, as with composite panels; there is no harmonised standard or specialist CUAP for sealant.

MATERIAL HANDLING

Every profiled sheet is carefully inspected before despatch and consignments are packed in maximum two tonne bundles. It must be emphasised that these sheets are quality products and should be handled accordingly.

On arrival at the site, care should be taken when off-loading; avoid unnecessary handling of the sheets, lifting (not dragging) them directly off the bundles. When hoisting bundles and sheets into position, protect the edges and ensure that the pressure across the sheets and flashings does not cause distortion. Use rope, not chains, for hoisting.

Note: pallets are not suitable for crane offload. If a protective, strippable film has been applied to the coating, this should be removed from the underlap edge prior to fixing and the remainder removed within seven days.

Failure to observe simple, but essential precautions, when storing and handling galvanised and colour coated cladding sheets onsite leads to repeated complaints of corroding and damage. Investigation shows that in almost every case damage is due to negligence prior to use.

The most common fault is exposing stacked sheets to the weather for weeks, even months – often lying in long grass. Avoid careless handling.

To ensure that sheets do not deteriorate when stored on building sites, the following precautions are essential:

Do not leave uncovered stacks lying in the open. Store under cover and away from open doorways. If stacks cannot be kept under cover, erect a simple scaffolding around them and cover with a waterproof sheet, tarpaulin or polythene, but leave space between cover and sheets to allow air to circulate. Store stacks off the ground and on a slope, so that should rain penetrate the covering, the water will drain away. Inspect the storage site regularly to ensure that moisture, despite the above precautions, has not penetrated the stock. Do not store sheets where people will walk across them.

Observing these precautions will save hassle, time and money.





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In partnership with **TATA STEEL**

