

CORRUGATED  
PVC SHEET

# Marvec CS

Cover  
& Protect

 **Brett  
Martin**

# Marvec CS

Marvec CS | Marvec CS Hi-Impact | Marvec CS Diamond | Marvec CS Agri

Marvec CS is the versatile and cost effective corrugated PVC sheet range for rooflighting, glazing and cladding.

The extensive range includes a selection of performance grades, profiles, thicknesses and tint options to suit an array of industrial, commercial, horticultural, agricultural and DIY applications.

- Exceptional light transmission
- Superior weather resistance
- Excellent fire performance
- Outstanding durability



## CONTENTS

02	Intro	14	Marvec CS Hi-impact
04	Product Range	16	Marvec CS Diamond
06	Features & Benefits	18	Marvec CS Agri
08	Applications	20	Technical Properties & Installation Guidelines
12	Marvec CS		



## MARVEC CS RANGE

### Marvec CS

Transparent corrugated PVC sheet available in a selection of performance grades, profiles, tints and thicknesses to suit a range of roofing and glazing applications from industrial rooflights to simple DIY glazing.

#### PRODUCT RANGE

**Thicknesses** 0.8mm – 1.5mm

**Sheet widths** Up to 1260mm

**Finish options** Smooth, embossed

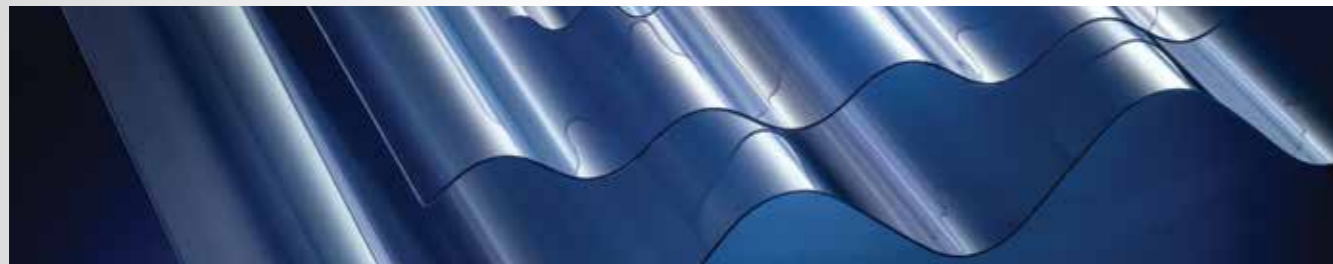
**Colours & Tints** Transparent, Bronze, Opal



Transparent

Bronze

Opal



#### TYPICAL APPLICATIONS

- Rooflights and vertical glazing
- Canopies and walkways
- Greenhouses and farm buildings

### Marvec CS Hi-Impact

Transparent corrugated PVC sheet with enhanced impact resistance, ideal for a range of roofing and glazing applications in more challenging environments where there is added risk of damage.

#### PRODUCT RANGE

**Thicknesses** 0.8mm – 1.5mm

**Sheet widths** Up to 1260mm

**Finish options** Smooth, embossed

**Colours & Tints** Transparent, Bronze, Opal



Transparent

Bronze

Opal



#### TYPICAL APPLICATIONS

- Rooflights and vertical glazing
- Canopies and walkways
- Greenhouses and farm buildings

### Marvec CS Diamond

Diamond embossed corrugated PVC sheet offer great aesthetics and at 2.6mm thick are stronger and more rigid for enhanced spanning and load bearing capabilities.

#### PRODUCT RANGE

**Thicknesses** 2.6mm

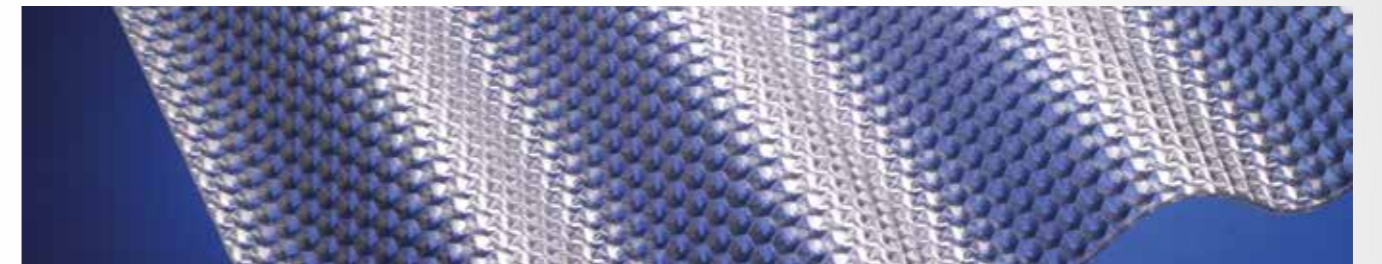
**Sheet Widths** Up to 1045mm

**Finish options** Diamond embossed

**Colours & Tints** Transparent



Transparent



#### TYPICAL APPLICATIONS

- Rooflights
- Vertical glazing
- Canopies and walkways

### Marvec CS Agri

Opaque corrugated PVC cladding ideal for internal cladding in agricultural buildings and livestock sheds. UV enhanced option available for external applications. Will not rust or corrode like metal.

#### PRODUCT RANGE

**Thicknesses** 0.8mm – 1.5mm

**Sheet widths** Up to 1190mm

**Finish options** Smooth

**Colours & Tints** White, Light Grey, Mushroom



White

Light Grey

Mushroom



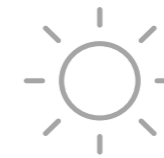
#### TYPICAL APPLICATIONS

- Livestock sheds
- Farm buildings
- Stores
- Warehouses

# Features & Benefits



**UV Protection**  
Inherent UV stability makes this sheet range suitable for external applications, enhanced UV options are also available



**High Light Transmission**  
Achieves up to 80% light transmission



**Warranty**  
Limited warranty, contact our Technical Department for further details



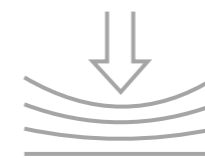
**Tough & Durable**  
Resistant to impact damage and most chemicals, will not rust or corrode



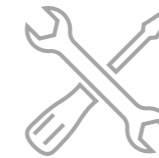
**Energy Saving**  
Reduced need for artificial light cuts building energy costs



**Low Maintenance**  
Long term durability reduces the need for costly repairs and means lower maintenance



**Flexibility**  
Suitable for cold curving either parallel or perpendicular to the sheet corrugations



**Easy to Install**  
Light in weight and easy to install with standard DIY tools



**Excellent Fire Performance**  
Excellent fire performance with certification available from Brett Martin's Technical Department

# Applications

## Horticulture



Marvec CS is a suitable material choice for propagating and nurturing young seedlings into healthy plants for maximum fruit, flower and vegetable crop yields. Key qualities to promote this are its high light transmission, impact resistance to guard against the elements and good workability.

- Greenhouses
- Propagation units
- Cloches

## Agriculture



Marvec CS Agri internal liner sheets provide a bright building interior and a surface which allows the frequent sanitary maintenance required by the professional farmer. The material's glossy finish, flexibility, durability and ease of installation ensure that this is suitable for constructing a wide range of agricultural structures.

- Poultry Farms
- Other livestock buildings
- Food preparation areas

# Applications

## Construction



Marvec CS is available in a wide range of roofing profiles, tints and thicknesses making it easily incorporated into both new and refurbished roofs to any building.

- Rooflights
- Canopies & Walkways
- Vertical glazing

## DIY



The cost effectiveness of PVC combined with the quality of Marvec CS makes it an exceptional DIY material. It can be cut out and drilled with standard DIY tools to achieve excellent results. The lightweight but robust nature of the sheet makes it easy to handle.

- Sun houses
- Canopies
- Sheds
- Partitions



# Marvec CS

Economical rooflight & sidelight glazing material in a range of performance grades.

Marvec CS corrugated PVC sheet is ideal for use in cooler temperate climates. It provides superior weather resistance, light transmission, fire performance and excellent durability. Light in weight, Marvec CS is easy to handle and install. A wide range of profiles are available in two different performance grades to suit a range of applications and budgets. Marvec CS Premium with enhanced UV protection and Marvec CS Standard - economy sheet without UV protection.

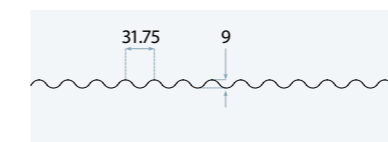
## Typical Applications

- Rooflights and vertical glazing
- Canopies and walkways
- Greenhouses and farm buildings

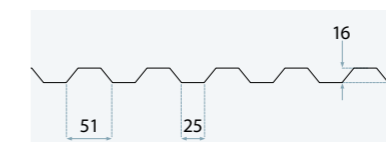
## Key Features

- Versatile yet cost effective
- Choice of two performance grades
- Excellent durability

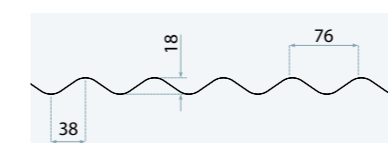
## Popular Profiles



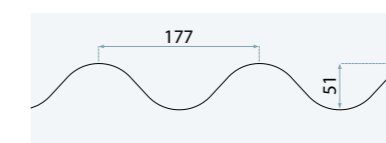
**Mini**  
Sheet width: 1000mm



**Greca**  
Sheet width: 1260mm



**Iron**  
Sheet width: 1260mm



**P0007**  
Sheet width: 1100mm

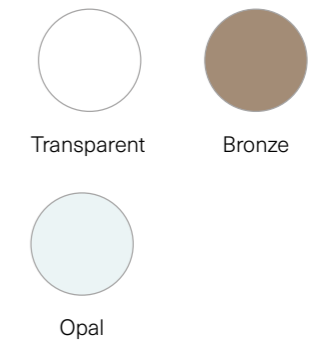
## Product Range

**Thicknesses**  
0.8mm – 1.5mm

**Sheet widths**  
Up to 1260mm

**Options\***  
Smooth, embossed

## Colour & Tints\*



Search our database of over 1000 profiles using our profile finder tool, available on [brettmartin.com](http://brettmartin.com)



# Marvec CS Hi-Impact

Provides 10 times more impact resistance than standard Marvec CS sheets.

Marvec CS Hi-impact is an ideal glazing solution for areas where there is a risk of impact damage to the sheet.

PVC sheet is ideal for use in cooler temperate climates. It provides superior weather resistance, light transmission, fire performance and excellent durability. Light in weight, Marvec CS Hi-impact is easy to handle and install.

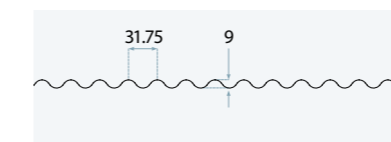
## Typical Applications

- Rooflights and vertical glazing
- Canopies and walkways
- Greenhouses and farm buildings

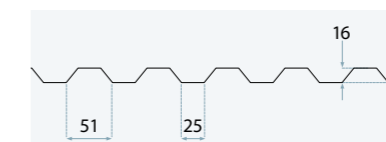
## Key Features

- 10 times more impact resistant than standard Marvec CS
- Versatile yet cost effective
- Excellent durability

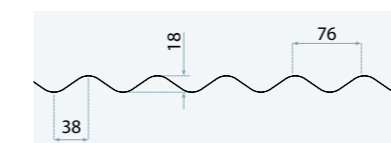
## Popular Profiles



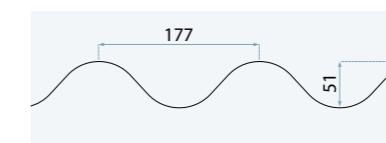
**Mini**  
Sheet width: 1000mm



**Greca**  
Sheet width: 1260mm



**Iron**  
Sheet width: 1260mm



**P0007**  
Sheet width: 1100mm

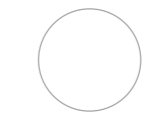
## Product Range

**Thicknesses**  
0.8mm – 1.5mm

**Sheet widths**  
Up to 1260mm

**Finish**  
Smooth

## Colour & Tints\*



Transparent



Bronze

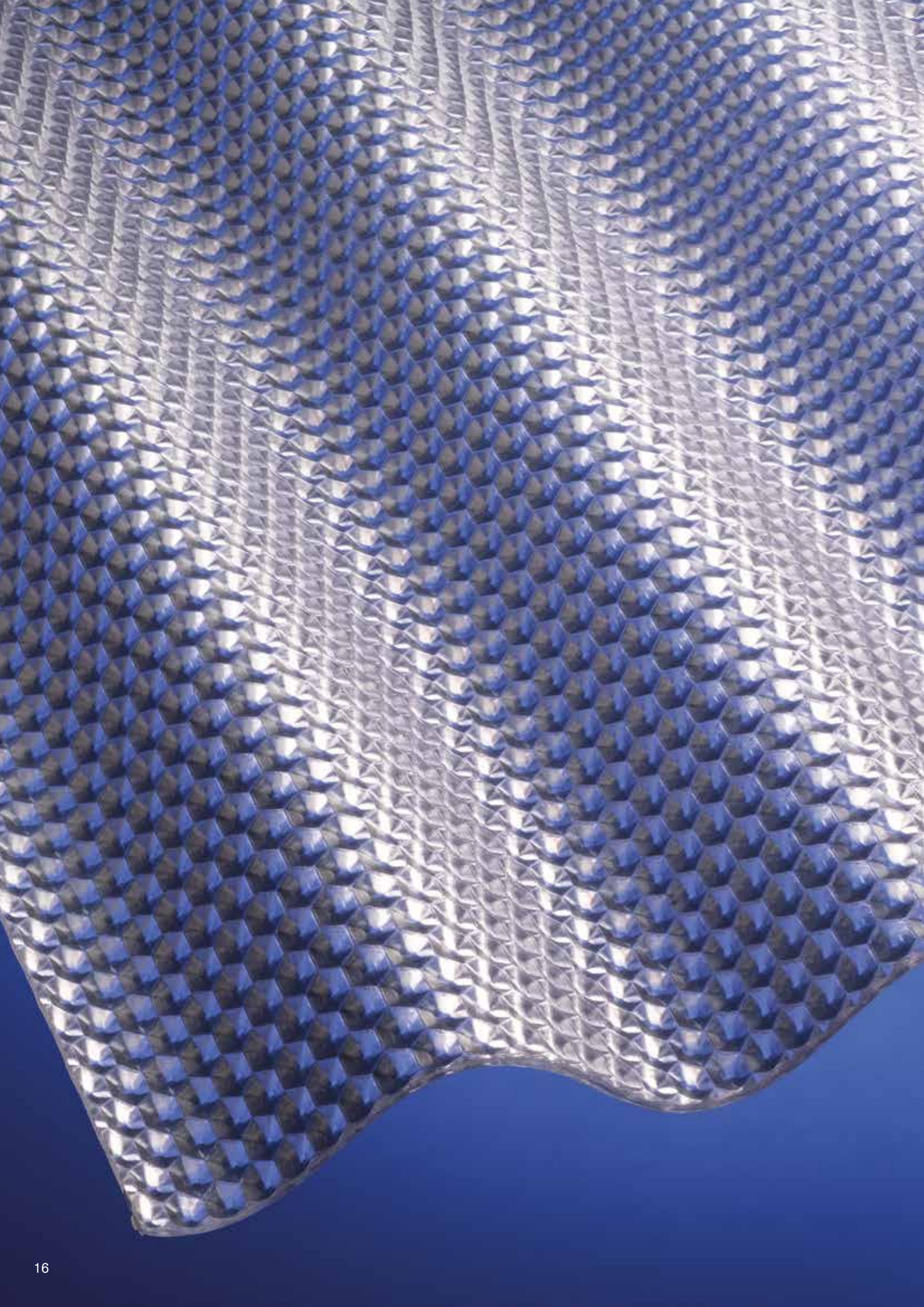


Opal



Search our database of over 1000 profiles using our profile finder tool, available on [brettmartin.com](http://brettmartin.com)





# Marvec CS Diamond

Diamond embossed PVC sheet for enhanced spanning and load bearing.

Marvec CS Diamond sheets are super strength corrugated PVC sheet with a diamond embossed surface offering great aesthetics and, at 2.6mm thick, are stronger and more rigid for enhanced spanning and load bearing capabilities.

## Product Range

**Thicknesses**  
2.6mm

**Sheet widths**  
Up to 1045mm

**Finish**  
Diamond embossed

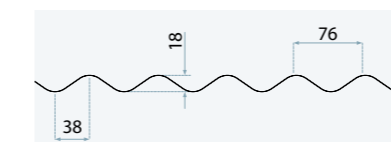
## Typical Applications

- Rooflights
- Vertical glazing
- Canopies and walkways

## Key Features

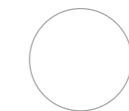
- Superior strength
- Attractive diamond embossed surface
- Enhanced spanning and load bearing

## Popular Profiles



**Iron**  
Sheet width: 1260mm

## Colour & Tints\*



Transparent



Search our database of over 1000 profiles using our profile finder tool, available on [brettmartin.com](http://brettmartin.com)



# Marvec CS Agri

Corrosion free agricultural cladding.

Marvec CS Agri corrugated PVC sheets provide a chemically resistant and durable solution for the interior walls and ceilings of agricultural buildings. The high gloss, scratch resistant surface of Marvec CS Agri is easy to clean down with a simple hose or power washer.

PVC sheet won't rust or corrode like metal. Light in weight and quick and easy to install with no special installation equipment required. Marvec CS Agri UV is available for external cladding projects.

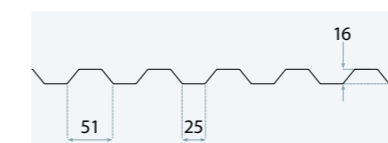
## Typical Applications

- Livestock sheds
- Farm buildings
- Stores
- Warehouses

## Key Features

- Quick and easy to install
- Smooth high gloss scratch resistant surface
- Cleans easily with a hose or power washer
- Will not rust or corrode like metal

## Popular Profiles



**Greca**  
Sheet width: 1260mm

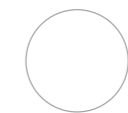
**Thicknesses**  
0.8mm – 1.5mm

**Sheet widths**  
Up to 1190mm

**Finish**  
Smooth

**Other options**  
UV protected sheet for external cladding applications

## Colour & Tints\*



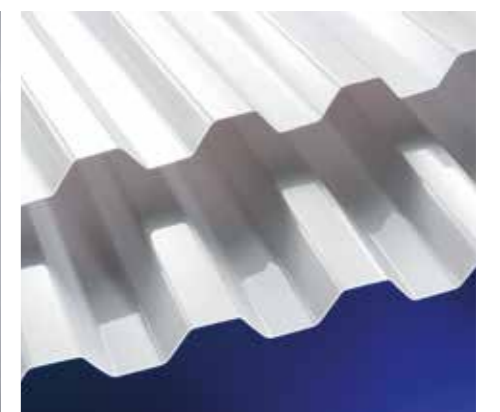
White



Mushroom

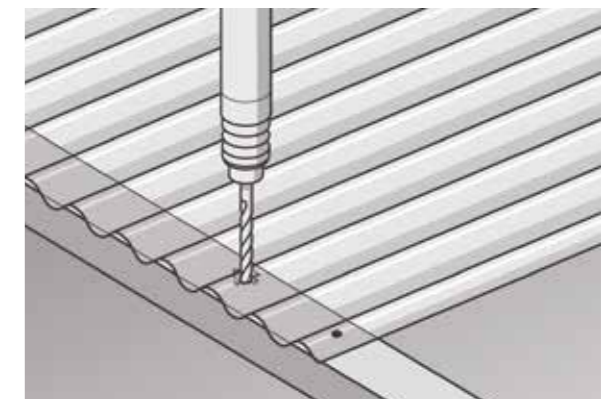
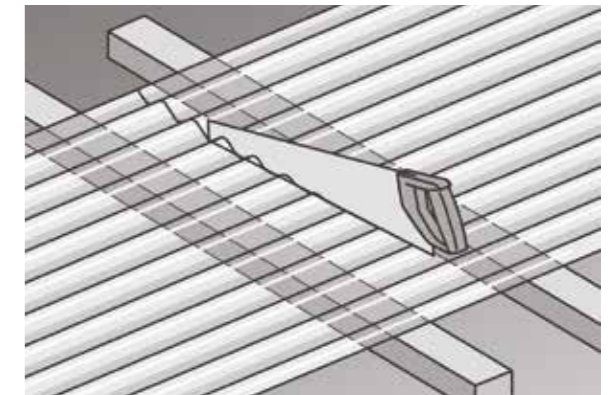


Light Grey



# Installation Guidelines

- Store sheets on a flat surface. Stack height should not exceed 1m. Use an opaque cover, tightly secured, to protect from wind, rain and sun. Storage is always preferable indoors.
- Marvec CS sheets must always be installed with the corrugation running vertically, or up-slope.
- Roofs should always be designed with a minimum slope of 5° to allow adequate rainwater run-off.
- Marvec CS sheet can be cut with a hand saw and a variety of powered saws. Always ensure that the sheet is well supported and cannot vibrate. Care should be taken when cutting sheets in low temperatures.
- Ensure that all sealants and tapes are compatible with PVC.
- All accessory products should be light coloured, preferably white.
- Any surfaces or supports under the sheet should be light in colour, preferably white.
- Ensure that any wood preservative used on supporting timber sections is thoroughly dry.
- Clean away all dust created when drilling fibre cement sheets.
- Marvec CS sheets should be laid so that the side laps are away from the prevailing wind. Use a clear neutral silicone glazing sealant to seal the bottom of the laps.
- Sheets spanning up to two purlin spacings are of optimum length to cope with thermal movement.
- Maximum recommended sheet length for Marvec CS is 4m.
- Suitable for use on curved roof structures, the sheets must always be fixed over a central purlin



# TECHNICAL INFORMATION & INSTALLATION GUIDELINES

# Installation Guidelines

## Drilling & Fixing

### IMPORTANT

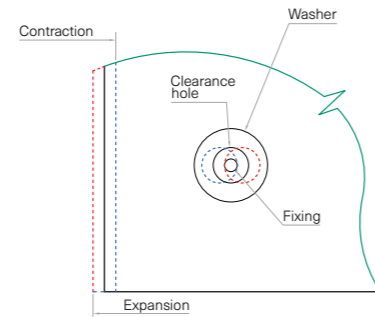
PVC sheet will expand in the heat and contract in the cold

Sufficient allowance for thermal movement should be made by:

#### 1. Drilling oversized fixing holes

See table (right) for recommended clearance hole sizes for a Ø5mm fixing.

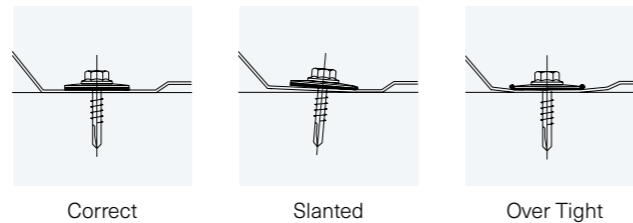
- This will accommodate +/-30° temperature range
- Metal drill bits are suitable, if using a power drill set to a low speed. Make sure that the sheet is supported underneath to avoid vibration
- Drill at least 50mm from the edge of the sheet



Sheet Length (m)	Hole Diameter (mm)
2.0	9
2.5	10
3.0	11
3.5	12
4.0	13

#### 2. Avoiding overtightening of fixings

- This will allow for natural movement of the sheet and will avoid unnecessary damage



## Cleaning

As a condition of ensuring that Marvec CS sheets perform at optimum throughout their service life, it is recommended that the sheets be cleaned periodically using suitable household cleaning agents as follows:

- Use lukewarm water to rinse the sheet and soften dirt.
- Make up a solution of lukewarm water and ordinary household cleaner or a mild soap and use this to wash the sheet.
- A sponge or soft cloth should then be used to gently remove dirt and grime.
- The cleaning process should then be repeated and the sheet rinsed and dried with a soft cloth.
- For larger areas clean the surface with a high pressure water cleaner being careful not to dislodge flashing, sealants or fixings.

## Warning

Care should be taken to observe the following precautions:

1. Do not scrub Marvec CS sheets with brushes or sharp instruments.
2. Avoid any abrasives or cleaners of a highly alkaline composition.
3. It is generally advisable in all instances to test any cleaner on a sample piece of Marvec CS sheet first.

Properties	Test Method	Value	Units
Mechanical	Tensile strength at yield	DIN 53455	58-62 MPa
	Elongation at break	DIN 53455	>100 %
	Modulus of elasticity	DIN 53455	300 MPa
Physical	Specific gravity	DIN 53479	1.38-1.42 g/m <sup>3</sup>
Thermal	Softening temperature	DIN 53460	72-74 °C
	Linear thermal expansion	DIN 53752	6.8 x 10 <sup>-5</sup> m/m.K
	Service temperature range - no loading		-20 - +60 °C

## Installation Accessories

A full range of fully compatible accessories including ridge pieces, flashing, fixings, foam fillers and silicone sealant are available for the complete roofing solution.

It is important when installing any Marvec CS sheet that accessories are compatible for use with PVC.



## Head Office & Global Sales

Brett Martin Ltd  
24 Roughfort Road  
Newtownabbey, Co. Antrim  
Northern Ireland, BT36 4RB

2776/0922

t: +44 (0) 28 9084 9999  
f: +44 (0) 28 9083 6666  
e: [technical@brettmartin.com](mailto:technical@brettmartin.com)  
[commercial@brettmartin.com](mailto:commercial@brettmartin.com)

---

For the latest information visit  
[brettmartin.com/marloncs](http://brettmartin.com/marloncs)

