



ETER-COLOR

Product Information Sheet¹

1 Product composition

ETER-COLOR sheets consist of the following:

- Portland cement
- selected mineral fillers providing extra smooth surface
- organic reinforcing fibres
- mineral pigments
- functional additives

2 Production method

ETER-COLOR sheets are manufactured on a Hatschek machine, are autoclaved and double pressed. The following mechanical operations can be performed depending on the application:

- rectify
- calibrate by sanding
- polish
- water repelling by hydrofobation with silane

3 Dimensions, weight and tolerances²

	ETER-COLOR
Main application	Façade cladding
Hatschek press	Yes
Double press	Yes
Autoclave	Yes
Rectified	Optional
Calibrated by sanding	Yes
Polish	Yes
Water repelling	Yes
Thickness (mm)	8
Weight ex-works (kg/m ²)	14.9
Dimension (mm)	weight ex-works (kg/sheet)
1220x2500 rectified	45.4
1220x3050 rectified	55.4
1240x2520 not rectified	46,5
1240x3070 not rectified	56,7
Tolerance	Complies with EN 12467 (level I)
Thickness (mm)	± 0.5
Length and width (mm)	± 3
Squareness (mm/m)	1.0

¹ This product information sheet replaces any previous editions. ETERNIT reserves the right to amend this information sheet without prior notice. Readers should always satisfy themselves that they are referring to the most recent version of this document.

² Thicknesses, sizes and types of the sheets which differ from those available as standard from stock are available subject to minimum order quantities. Please contact ETERNIT for more information.



4 Colour

The colour is through-out the sheet. Natural colour differences (color difference $\Delta L = +/-2$), possibly accentuated by the orientation of the sheet and the effects of light and moisture, are possible. The sheet becomes a little lighter with aging. The surface of the sheet is characterised by fine sanding lines and white spots. See the most recent ETERNIT colour chart for an overview of the standard colours.

5 Technical properties (average values)

The CE-mark is based on the European standard EN 12467 'Fibre-cement flat sheets', which describes classification and most testing methods.

<i>A. Testing according to ISO quality management system</i>				
Density	Dry	EN 12467	1.580	kg/m ³
Bending strength	Ambient, \perp	EN 12467	32,0	N/mm ²
	Ambient, //	EN 12467	22,0	N/mm ²
Modulus of elasticity	Ambient, \perp	EN 12467	15.000	N/mm ²
	Ambient, //	EN 12467	13.000	N/mm ²
Hygrical movement	0-100%, mean		1,60	mm/m
Porosity	0-100%		20	%
<i>B. Classification</i>				
Durability classification		EN 12467	Category A	
Strength classification		EN 12467	Class 4	
Fire reaction		EN 13501-1	A2-s1-d0	
<i>C. Type test or best estimate</i>				
Impermeability test		EN 12467	Ok	
Warm water test		EN 12467	Ok	
Soak dry test		EN 12467	Ok	
Freeze thaw test		EN 12467	Ok	
Thermal conductivity λ			0,390	W/mK

6 Advantages

Providing the application guidelines are followed, ETERNIT fibre cement sheets have the following superior mix of properties compared to other materials:

- fire safe (no fire ignition, no spread of fire)
- sound insulating
- resistant to extreme temperatures
- water resistant (if in compliance with application guideline)
- resistant to many living organisms (fungi, bacteria, insects, vermin, etc.)
- resistant to many chemicals
- environmentally friendly, no harmful gas emissions

In addition, ETER-COLOR has the following specific properties:

- strong and rigid sheet
- smooth aesthetic surface with natural hues
- natural pure colour



7 Applications

ETER-COLOR can be used in the following applications:

- Façade: façade cladding
- Exterior ceiling: cladding of ceiling
- Interior: cladding

The warranty on the product is only valid if the ETERNIT application guidelines are respected. If in any doubt regarding the suitability of ETERNIT sheets in any given application, it is advisable to request specific recommendations from ETERNIT. Under no circumstances can ETERNIT be held liable for applications of their sheets implemented without approval from ETERNIT.

8 Available factory finishing

ETER-COLOR can be supplied by ETERNIT cut to size. Holes 4 to 10 mm in diameter can be factory pre-drilled (for visible fixing).

9 General application data

Cutting/Sawing:

- circular saw
 - slow rotation with blade with carbide-tipped teeth
 - fast rotation with diamond cutting blade without teeth
 - universal cutting blade with carbide diamond-tipped teeth

Edge finish:

- fine emery cloth or sanding block

Drilling:

- for holes: carbide-tipped twist drill (or completely in carbide) with a 60° nose angle
- for round apertures: cup drill or circular cutter, carbide-tipped

The sheet should be supported around the hole to be drilled (e.g. by a wooden surface).

!!: Sawing and drilling must take place in a dry environment. For decorative applications, sawings and drillings must be immediately removed from the sheet with a dry micro-fiber towel. Sawings and drillings not removed can cause permanent stains.

Fastening accessories:

Depending on the application the following fastening accessories can be used (see application instructions for more information). The material (e.g. stainless steel, galvanised steel, phosphated steel) is also chosen depending on the application.

- Adhesive: Can not be fixed with adhesive.
- Screws: Can be used in completely pre-drilled holes only.
- Rivets: Can be used in completely pre-drilled holes only.

Sealant:

Only use neutral sealants. Non-neutral silicones or thiokols can result in spots.

10 Health and safety aspects

During the mechanical machining of panels, dust can be released which can irritate the airways and eyes. Apart from this, the inhalation of fine (respirable size) quartz containing dust, particularly when in high concentrations or over prolonged periods of time can lead to lung disease and an increased risk of lung cancer. Depending on the working conditions, adequate machinery with dust extraction and/or ventilation should be foreseen. For more ample information, please check the Safety Data Sheet according to 91/155/EEC.



11 Maintenance and cleaning

For minor soiling, washing with a mild household detergent or soft soap solution followed by rinsing with clear water.

12 Handling

The sheets are packaged on pallets. They are to be transported under a tarpaulin. The sheets must be horizontally stacked on a flat surface. The sheets must always be sufficient supported so that they do not sag. The sheets must be stacked in a dry ventilated space. If the sheets are stored outside, they must always be protected against rain by a tarpaulin or plastic cover. If the sheets do become wet in the packing, all packaging must be removed and placed in a way that they can dry out thoroughly. It is recommended to allow the sheets to acclimatise in the space where they are to be used. A sheet must always be lifted from a stack by two persons and then be carried vertically.

13 More technical information

More information can be found in the ETERNIT application guidelines, ETERNIT treatment guidelines, ETERNIT cleaning guidelines, ETERNIT tender specifications, ETERNIT Material Safety Data Sheet, ETERNIT warranty declarations, ETERNIT price list, ETERNIT website, etc.



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