



EURO PANELS OVERSEAS

ETER-COLOR

Product Information Sheet

1. Product composition
ETER-COLOR sheets consist of the following
 - Portland cement
 - selected mineral fillers providing extra smooth surface
 - organic reinforcing fibers
 - 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:
 - cutting
 - sanding (for fit)
 - polishing
 - water repellant by sealing with silane

3. Dimensions, weight and tolerances 2

	ETER-COLOR		
	Façade cladding		
Main application	Façade cladding		
Hatschek press	Yes		
Double press	Yes		
Autoclave	Yes		
Trimmed	Optional		
Sandable (for fit)	Yes		
Polishing	Yes		
Water repellant	Yes		
Thickness	inch	1/4"	5/16"
	mm	6	8
Weight ex-works	lb/ft ²	2.29	3.05
	kg/m ²	11.2	14.9
Dimensions	weight ex works per sheet		
98 7/16" x 48 1/32" (trimmed)	lbs	75.0	100.1
2500 mm x 1220 mm (trimmed)	kgs	34.0	45.4
120 3/32" x 48 1/32" (trimmed)	lbs	91.5	122.1
3050 mm x 1220 mm (trimmed)	kgs	41.5	55.4
99 7/32" x 48 13/16" (untrimmed)	lbs	77.2	102.5
2520 mm x 1240 mm (untrimmed)	kgs	35.0	46.5
120 7/8" x 48 13/16" (untrimmed)	lbs	96.1	125.0
3070 mm x 1240 mm (untrimmed)	kgs	43.6	56.7
Tolerance	Complies with EN 12467 (level I)		
Thickness	inch	± 1/64	
	mm	± 0.5	
Length and width	inch	± 7/64	
	mm	± 3	
Squareness	in/ft	< 1/64	
	mm/m	1	



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4. COLOR

The color is through out the sheet. Natural color differences, 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 characterized by fine sanding lines and white spots. See the most recent color chart for an overview of the standard colors.

5. Technical properties (average values)

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

A. Testing according to ISO quality management system

Density	Dry	EN 12467	98.6	pcf
			1,580	kg/m ³
Bending strength	Ambient	⊥	EN 12467	4,625 psi
				32.0 N/mm ²
Bending strength	Ambient	//	EN 12467	3,179 psi
				22.0 N/mm ²
Modulus of elasticity	Ambient	⊥	EN 12467	2,168 psi
				15.0 N/mm ²
Modules of elasticity	Ambient	//	EN 12467	1,879 psi
				13.0 N/mm ²
Hygrical movement	0-1--%, mean		1/64	in/ft
			1.6	mm/m
Porosity	0-100%		20	%

B. Classification

Durability classification	EN 12467	Category A
Strength classification	EN 12467	Class 4
Fire reaction	EN13501-1	A2-s1-d0

C. Type test or best estimate

Impermeability test	EN 12467	Ok
Warm water test	EN 12467	Ok
Soak dry test	EN 12467	Ok
Freeze thaw test	EN 12467	Ok

6. Advantages

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

- fire save (no fire ignition, no spread of flame)
- 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 color



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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 4-10 mm in diameter can be factory pre-drilled (for visible fixing)

9. General application data
For decorative applications one is advised to wear woolen gloves to avoid sweat and grease marks

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

!! 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, galvanized 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
- Nailing: 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

Health and safety aspects:

Dust can be released while the sheets are being processed which can irritate airways and eyes. It is recommended that a dust mask and safety goggles be worn. Appropriate dust extraction or proper ventilation are to be provided depending on the room in which the work is being carried out or the equipment being used. Long-term exposure to dust can be harmful to health. More information is available in the Material Safety Data Sheet according to 91/155/EEC.



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10. **Maintenance and cleaning**
For minor soiling, washing with a mild household detergent or soft soap solution followed by rinsing with clear water.
11. **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 sufficiently 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 lifted from the stack by two persons and then be carried vertically.
12. **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.