



# Tonality

## 1 Product composition

TONALITY cladding tiles consist of the following:

- dry processed clay
- Water
- Colour minerals

## 2 Production method

TONALITY cladding tiles are vacuum-extruded at a pressure of more than 28 bar, dried and burnt in ultra-modern manufacturing plants. The excellence of the KERALIS raw materials and the HIGH BAKING FACTOR constitute the preconditions for the fascinating colouring and structure of the cladding tiles. Double-dried clay is processed to finest powdered clay, dye penetrated in finely graduated ratios of colour mixtures and subsequently burnt at temperatures exceeding 1200°C.

## 3 Dimensions and tolerances

Thickness : 26 mm

Dimensions and surface possibilities:

Height (mm)	Standard length (mm)	max. length (mm)	Surface			
			SMOOTH	GROOVED	PILASTER	STRIPED
150	400 – 900	900	standard	standard	-	-
175	400 – 900	900	standard	standard	-	-
200	400 – 900 – 1200 - 1600	1,600	standard	standard	standard	standard
225	400 – 900 – 1200 - 1600	1,600	standard	standard	-	-
250	400 – 900 – 1200 - 1600	1,600	standard	standard	on request	on request
300	400 – 900 – 1200 - 1600	1,600	standard	standard	on request	on request
400	400 – 900 – 1200 - 1600	1,600	standard	standard	on request	on request
500	400 – 900 – 1200 - 1600	1,600	on request	on request	-	-
600	400 – 900 – 1200 - 1600	1,600	on request	on request	-	-

Tolerances:

	Tolerance
Length	+/- 1.0 mm
Height (until tile height 400 mm)	+/- 2.0 mm
Thickness	+/- 1.5 mm
Evenness	max. 0.7 % (max. 2.0 mm)
Top edge bending	max. 0.25 %
Butt edge bending	max. 0.25 %
Squareness	max. 2.0 mm/m

Weight (ex works and system construction included)

	Thickness (mm)	Max. weight (kg/m <sup>2</sup> )	Tolerance (kg)
TONALITY – Classic	26	35	+ 0.2 / - 0.5

Special formats on request



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### 4 Colour

TONALITY-CLASSIC offers a wide range of tiles with natural coloured surface or with coated surface. All colours in the TONALITY-CLASSIC range, with the exception of the colour "brick red", have an anti-graffiti treatment. See the most recent ETERNIT colour chart for an overview of the available colours.

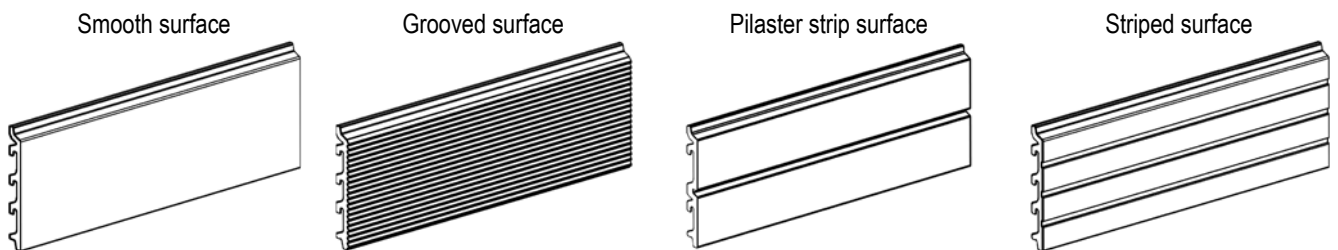
For an overview of the standard colours we refer to the most recent ETERNIT colour chart. However it is technically impossible that this chart represents the colours realistically. Therefore the final choice of the colour has to be made with samples. Other colours are available upon request for minimum orders. All sheets have to be ordered at the same time since a slight colour difference is possible due to different productions.

Natural hues are particular to TONALITY. Natural colour differences, possibly accentuated by the effects of light and moisture, are possible.

During installation tiles of different palettes have to be mixed in order to spread possible colour differences in the façade.

TONALITY cladding tiles are available in the following profiles:

- Smooth surface
- Grooved surface
- Pilaster strip surface
- Striped oppervlak



### 5 Technical properties

TONALITY cladding tiles demonstrate the following technical characteristics:

- Density: 2,250 kg/m<sup>3</sup>
- The cladding tiles are frost-resistant in accordance with the testing requirements of DIN EN 539-2.
- Resistant to pressure according to DIN EN 1304

Cladding tile "TONALITY®" (mm)	Tile 250	Tile 225	Tile 200	Tile 175
Bending strength				
- load on the front side (kN)	≥ 4.88	≥ 1.07	≥ 0.70	≥ 0.70
- load on the rear side (kN)	≥ 2.46	≥ 1.34	≥ 1.27	≥ 1.27

- Water absorption < 6% weight.
- The cladding tiles and the profiles made of aluminium are non-inflammable: Fire reaction classification A1 according EN 13501-1.
- The joint profiles of neoprene meet the requirements to Building material classification DIN 4102-B2.

TONALITY support frames demonstrate the following characteristics:

- CLS (Classic Profile System) consists of the aluminium alloy EN AW 5754 according to DIN EN 755-2.
- ADS (Adaptive System) including the joint profiles consist of the aluminium alloy EN AW 5754 according to DIN EN 755-2.
- BAS (Base Clinch rail System) is a composite profile and consists of a basic profile and a joint profile of the aluminium alloy EN AW 5754 according to DIN EN 755-2.



## 6 Advantages

Providing the application guidelines are followed, TONALITY cladding tiles have the following overall properties:

- Aesthetic surface in different colours and surfaces and different formats
- Different sub-constructions to meet variable requirements
- Colourfast and maintenance-free
- Short installation time
- Minimal wall fastening from 30 mm
- Problem free repair of damage
- Good noise insulation and reduction of energy consumption of buildings
- Resistant to aggressive environmental conditions
- Optimal heat insulation and water vapour diffusion
- Reduction of thermal bridges
- Durable, UV- resistant joint materials

## 7 Applications

- Façade cladding of new buildings and renovations in domestic and industrial construction, as well in interior as in exterior applications

## 8 Application data

### Cutting and drilling:

- For the cutting and fitting of the cladding tiles, we recommend wet cutters (dry cutters are also possible but make more dust)
  - Ceramics and stone cutting-off machine
  - Diamond cutting-off wheel
- For drilling purposes, we recommend the use of carbide or diamond charged twist drills.

### Retouching:

In the event of possible later repairs or corrections, we recommend the use of our cold engobe in the respective façade colours. This cold engobe is applied onto the dry cladding tile, which must be free of dust and grease, by means of a conventional painting brush.

## 9 Handling

The cladding tiles and the sub-construction are packed onto pallets and protected against damage or soiling by means of shrink film and edge protectors.

## 10 Health and safety aspects

During the mechanical machining of cladding tiles, 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 Warranty

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.

## 12 Maintenance and cleaning

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

**ANTI-GRAFFITI TREATMENT:** The TONALITY cladding tiles have an efficient, lasting and immediately effective graffiti protection that is already included in the KERALIS baking procedure. The graffiti protection will last the entire serviceable life. The renewal of the protection is not required. Cleaning is possible with any cleaning agent not harmful to the environment for the removing of graffiti coats.



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### 13 Certification

The manufacturer is able to deliver the CE declaration in terms of the European Construction Products Directive which guarantees the conformity to the standard NBN EN 12467 "Fibre-cement flat sheets". The manufacturer is also ISO certified.



### 14 More information

Information on the different applications can be found in the ETERNIT application guidelines. They can be found on the website or can be obtained on demand by phone. Information about external suppliers can also be downloaded from the website.

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. No part of this text can be changed without permission of ETERNIT.

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