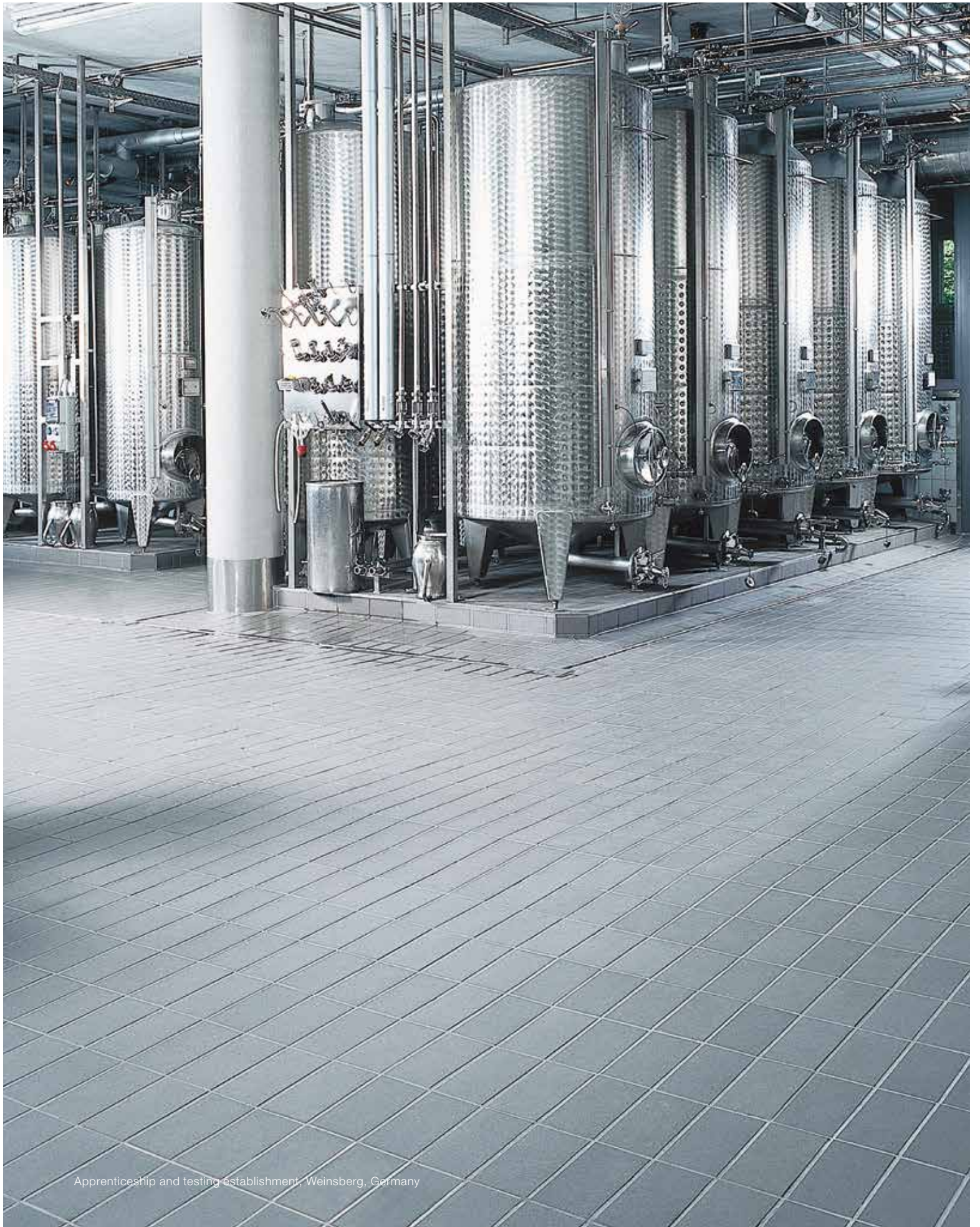


# Ferrum

Always on firm ground.

Ceramics for everyday industrial applications.





Apprenticeship and testing establishment, Weinsberg, Germany



Apprenticeship and testing establishment, Weinsberg, Germany

## Quality ceramics: an investment that pays off.

Specialists are more efficient. This also applies to the ceramic floor tiles of the series Ferrum, which were especially developed for the extreme requirements of industrial enterprises. The integrally colored, unglazed stoneware tiles/split tiles are particularly slip-resistant and thus prevent accidents at work. They are extremely robust and by far more resistant to compression than concrete or coating materials. A technically sophisticated range of accessories, including cove skirtings, nosing tiles, and gutter tiles, facilitates the realisation of company-specific complete solutions.

Apart from this, Ferrum also offers all of the advantages of high-quality architectural ceramics made in Germany. The tiles permit quick and thus inexpensive laying. They are resistant to chemicals, humidity and other loads typically associated with industrial applications. And they are convincing thanks to their practically unlimited durability. In addition, ceramic is non-combustible. And finally, the minimal cleaning required reduces maintenance costs. Result: Ferrum is an investment that pays off.

For AGROB BUCHTAL, the world-wide renowned company providing ceramic solutions, high-quality products and first-class service go hand in hand. That is why planners and architects using our products can benefit from the know-how of our in-house planning department – for competent support in all phases of the project.



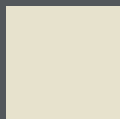
Production hall, Nuremberg, Germany



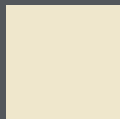
Meat processing, Castelnuovo, Italy



School, Neu-Wulmstorf, Germany



grey-white



grey-beige



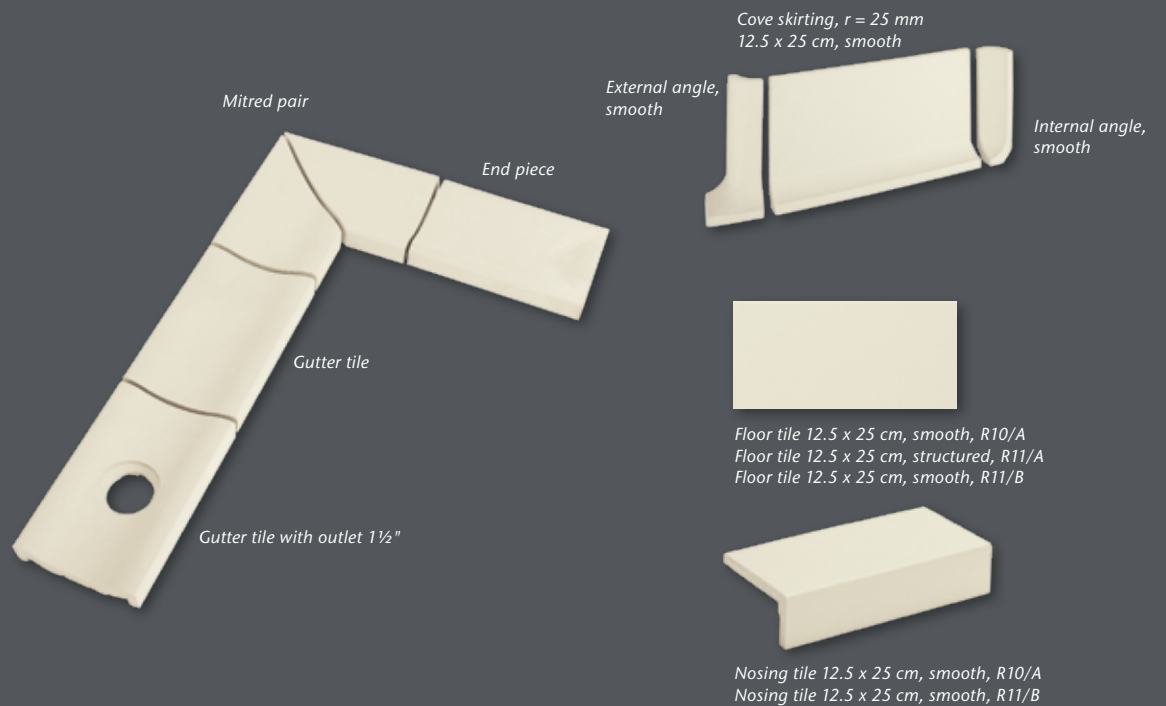
stone-grey



colorado-brown



light-beige,  
granulated



Cove skirting,  $r = 25 \text{ mm}$   
12.5 x 25 cm, smooth

External angle,  
smooth

Internal angle,  
smooth

Floor tile 12.5 x 25 cm, smooth, R10/A  
Floor tile 12.5 x 25 cm, structured, R11/A  
Floor tile 12.5 x 25 cm, smooth, R11/B

Nosing tile 12.5 x 25 cm, smooth, R10/A  
Nosing tile 12.5 x 25 cm, smooth, R11/B

Extra-thick tiles up to 40 mm are available as special productions.



## Laying instructions

Exclusively mechanical stress

### Preparation of the base

The base must be firm, clean and have good supporting properties. Surfaces reducing the adherence and impurities must be carefully removed. The laying base must be ready for laying, flush and perpendicular according to DIN 18202. Poured asphalt and cement screeds must be primed. Sealing in accordance with DIN 18534, water impact class W2-I or W3-I.

### Laying

For largely void-free laying with flexible floating-bed mortar: after the application of a contact layer on the laying base, the mortar must be pre-applied using a floating-bed or medium-bed trowel in such a way that the entire surface of the ceramic tiles is embedded in the mortar; this is ensured by a slightly sliding movement while laying the tiles.

### Pointing

With modified cement joint-grouting mortar for high mechanical loads, using the grouting method. Once the mortar sets, wash the surface and use a moistened sponge to remove the remaining mortar film after drying.

### Movement joints

The movement joints pre-filled with polyethylene strips are sealed in an elastic manner with the PU sealing material. Prior to pointing, the cleaned joint edges must be primed.

These laying instructions are to be considered only as general information. For specific application in projects, it may be necessary to obtain special recommendations from the system manufacturer.

The system manufacturer's processing guidelines / product information must be strictly observed.



## Laying instructions

Mechanical and chemical stress

### Preparation of the base

The base must be dry, firm, clean and have good supporting properties. Smooth surfaces must be roughened by shot-peening or slight grinding; impurities reducing the adherence must be carefully removed. The laying base must be ready for laying, flush and perpendicular according to DIN 18202. Prior to the application of the sealing, the base must be primed with system-compatible reactive resin primer; after that, a layer of silica sand is spread over the surface.

### Sealing

Sealing in accordance with DIN 18534, water impact class W2-I or W3-I with additional chemical impacts.

### Laying

With two-component reaction resin bonding agent (mixed with silica sand HS 020) using the buttering-floating method: after the application of a thin contact layer on the laying base and material, the laying mortar must be applied by means of a notched trowel (6-8 mm toothing), both on the laying base and on the tile reverse side, in order to obtain largely void-free embedding of the ceramics.

### Pointing

With reactive resin joint mortar using the grouting or the spraying method. After approx. 5 to 10 minutes, pre-wash the surface with warm water and an Epoxi sponge. After that, use the Epoxi sponge to wash off any remaining film at final cleaning, i.e. approx. 24 hours after pointing. Cleaning is facilitated by adding a suitable Epoxi cleaning agent to the washing water.

### Movement joints

The movement joints pre-filled with polyethylene strips are sealed in an elastic manner with the PU sealing material. Prior to pointing, the cleaned joint edges must be primed.

### Impregnating

Unglazed stoneware tiles, which do not feature Protecta or Hytect protection, should be impregnated in order to prevent the penetration of colored liquids as well as grease and oil, and to facilitate cleaning. Impregnation should be applied to clean and dry floors. Excess material must be removed immediately.

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The system manufacturer's processing guidelines / product information must be strictly observed.



AGROB BUCHTAL Solar Ceramics GmbH  
Buchtal 1, D-92521 Schwarzenfeld  
Telephone: +49 (0) 94 35-391-0  
Fax: +49 (0) 94 35-391-34 52

Servaisstraße, D-53347 Alfter-Witterschlick  
Telephone: +49 (0) 228-391-0  
Fax: +49 (0) 228-391-1273

info@agrob-buchtal.de  
www.agrob-buchtal.de

www.assenmacher.net

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