





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 coloured, unglazed 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 realization of company-specific complete solutions.

Apart from this, Ferrum offers all 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 quite usual in industrial everyday life. And they are convincing by their practically unlimited durability. In addition, ceramics is non-combustible. Finally, the minimal cleaning works required reduce the maintenance costs. Result: Ferrum is an investment that pays off.

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

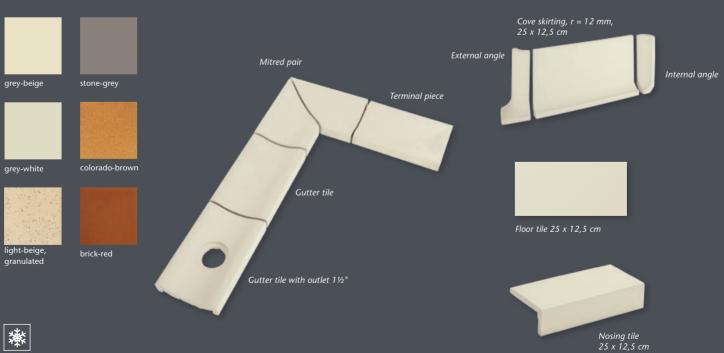


Production shed, Nuremberg, Germany



Meat processing, Castelnuovo, Italy





Floor Tiles				Nosing Tile	
25 x 12,5 cm	25 x 12,5 cm	25 x 12,5 cm	25 x 12,5 cm	25 x 12,5 cm***	
11 mm thick	14 mm thick	18 mm thick	20 mm thick		
1100	1160	1180	1110	4822	Model number
25 x 12,5 cm	25 x 12,5 cm	25 x 12,5 cm	25 x 12,5 cm	25 x 12,5 cm***	Nominal dimensions
240 x 115 x 11 mm	240 x 115 x 14 mm	240 x 115 x 18 mm	240 x 115 x 20 mm	240 x 115/52 x 11	Work size mm
33.000/m ²	33.000/m ²	33.000/m ²	33.000/m ²	4.000/m	m²/m - pieces
22.869/m ²	28.380/m ²	35.442/m ²	41.679/m ²	3.880/m	m²/m - kg
24	20	16	14	8	Bundle - pieces
0.727 m ²	0.606 m ²	0.485 m ²	0.424 m ²	2,000 m	Bundle - m ² /m
16.632	17.200	17.184	17.682	7.760	Bundle - kg
52.364	43.636	30.545	30.545		Pallet - m ²
1,197.504	1,238.400	1,082.592	1,273.104		Pallet - kg
Alb	Alb	Alb	Alb	Alb	Product standard
see below	see below	see below	see below	see below	Slip resistance
2	3	4	4		Stress Group
R10/A 900-1100 Price gr. A101 (m²)	R10/A 900-1160** Price gr. A125 (m²)	R10/A 900-1180** Price gr. A139 (m²)	R10/A 900-1110 Price gr. A150 (m²)	R10/A 900-4822 Price gr. A434 (pce.)	grey-beige
R12/B 902-1100 Price gr. A101 (m²)	R12/B 902-1160** Price gr. A125 (m²)	R12/B 902-1180** Price gr. A139 (m²)	R12/B 902-1110 Price gr. A150 (m²)	R12/B 902-4822 Price gr. A434 (pce.)	grey-white
R12/B 929-1100 Price gr. A119 (m²)	R12/B 929-1160** Price gr. A139 (m²)		R12/B 929-1110 Price gr. A162 (m²)	R12/B 929-4822 Price gr. A434 (pce.)	stone-grey
			R11/B 950-1110* Price gr. A150 (m²)		colorado-brown
	**		R11/A 958-1110** Price gr. A150 (m²)		brick-red
R11/A 964-1100 Price gr. A119 (m²)	R11/A 964-1160** Price gr. A139 (m²)		R11/A 964-1110 Price gr. A162 (m²)		light-beige NEW granulated

 $[\]ensuremath{^{***}}$ Also available in the colour light-beige, granulated on request.



Skirtings			Gutter Tiles (trough depth 15 mm)			·*·	
25 x 12,5 cm	I		25 x 15,6 cm	25 x 15,6 cm	240	25 x 15,6 cm	
Cove skirting r= 25 mm	External angle	Internal angle	150 Gutter tile	Gutter tile with outlet 11/2"	Mitred pair	Terminal piece	
4030	4033	4034	54420	54421	54422	54423	Model number
25 x 12,5 cm			25 x 15,6 cm	25 x 15,6 cm		25 x 15,6 cm	Nominal dimensions
240 x 125/20 x 11			244 x 150 x 30	244 x 150 x 30	(2x) 240 x 150 x 30	244 x 150 x 30	Work size mm
4.000			4,000				m - pieces
3.520/m	0.200/piece	0.170/piece	7.200/m	1.530/piece	3.030/pair	1.950/piece	m/pce./pair - kg
14 piece	4 piece	8 piece	8 piece	8 piece	4 pair	8 piece	Bundle - pcs./pair
3.500			2.000				Bundle - m
12.320	0.800	1.360	14.400	12.240	12.120	15.600	Bundle - kg
							Pallet - m
							Pallet - kg
Alb	Alb	Alb	Alb	Alb	Alb	Alb	Product standard
			see below	see below	see below	R10/A	Slip resistance
900-4030 Price gr. A434 (pce.)	900-4033 Price gr. A445 (pce.)	900-4034 Price gr. A445 (pce.)	R10/A 900-54420 Price gr. A458 (pce.)	R10/A 900-54421 Price gr. A560 (pce.)	R10/A 900-54422 Price gr. A581 (pair)	900-54423 Price gr. A560 (pce.)	grey-beige
902-4030 Price gr. A434 (pce.)	902-4033 Price gr. A445 (pce.)	902-4034 Price gr. A445 (pce.)	R12/B 902-54420 Price gr. A458 (pce.)	R12/B 902-54421 Price gr. A560 (pce.)	R12/B 902-54422 Price gr. A581 (pair)	R12/B 902-54423 Price gr. A560 (pce.)	grey-white
929-4030 Price gr. A434 (pce.)	929-4033 Price gr. A445 (pce.)	929-4034 Price gr. A445 (pce.)					stone-grey
950-4030* Price gr. A434 (pce.)	950-4033* Price gr. A445 (pce.)	950-4034* Price gr. A445 (pce.)					colorado-brown

^{*}Exception: colour no. 950 corresponds to the DIN EN 14411, group All_a.

Laying instructions - Exclusively mechanical stress

Preparation of the base

The base must be firm, clean and good bearing. Surfaces reducing the adherence and impurities have to 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 with PCI Gisogrund*. Cement bases must be sufficiently pre-wetted if subsequent sealing is intended.

Sealing

Stress class A2 according to the List of building regulations (Bauregelliste) A, part 2: application of the sealing in at least two completely covering layers with PCI Rapid 2K*, minimum dry layer thickness of 2.0 mm. All junctions, corners, movement joints, penetrations etc. have to be sealed with PCI Pecitape* sealing tapes or sealing collars.

Laying

For the largely void-free laying with flexible floating-bed mortar PCI Nanoflott light*: after the application of a contact layer on the laying base, the mortar must be pre-applied by means of 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 at the laying of the tiles.

Pointing

With modified cement mortar PCI Durafug NT* by the grouting method. After the setting of the joint grouting mortar, wash the surface and remove the remaining mortar film after drying by means of a humid sponge.

Movement joints

The movement joints pre-filled with PCI DIN-Polyband* are closed in an elastic manner with the PU sealing material PCI Elritan 140*. Prior to pointing, the cleaned joint edges must be primed with PCI Elastoprimer 135*.

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

* The processing guidelines/product information of PCI Augsburg GmbH (www.pci-augsburg.de) must be strictly observed!





Material consumption for the PCI products to be used

PCI Gisogrund: approx. 0.15 to 0.2 l/m² PCI Rapid 2K: at least 4.0 kg/m² Approx. 4.0 to 5.0 kg/m² approx. 4.0 to 5.0 kg/m²

PCI Durafug NT: Joint width Joint depth Consumption

10 mm 8 - 10 mm approx. 2.1 kg/m² 8 mm 8 - 10 mm approx. 1.7 kg/m² 6 mm 8 - 10 mm approx. 1.3 kg/m² 10 - 15 mm 10 mm approx. 3.1 kg/m² 8 mm 10 - 15 mm approx. 2.5 kg/m² approx. 1.9 kg/m² 6 mm 10 - 15 mm approx. 4.2 kg/m² 10 mm 15 - 20 mm approx. 3.4 kg/m² 8 mm 15 - 20 mm

PCI Elastoprimer 135: approx. 0.01 I/Ifm

PCI Elritan 140: Joint 10 x 10 mm: approx. 110 ml/lfm

Triangular joint 10 x 10 mm: approx. 60 ml/lfm

Laying instructions - Mechanical and chemical stress

Preparation of the base

The base must be dry, firm, clean and good bearing. Smooth surfaces must be roughened by shot-peening or slight grinding; impurities reducing the adherence have to 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 PCI Epoxigrund 390*; after that, a layer of silica sand is spread over the surface.

Sealing

Stress class C according to the List of building regulations (Bauregelliste) A, part 2: application of the sealing in at least two completely covering layers with PCI Apoflex*, minimum dry layer thickness of 2.0 mm. All junctions, corners, movement joints, penetrations etc. have to be sealed with PCI Pecitape* sealing tapes or sealing collars.

With the two-component reaction resin bonding agent PCI Durapox NT* (mixed with silica sand HS 020) by the buttering-floating method: after the application of a thin contact layer on the laving base and material, the laving 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 a largely void-free embedding of the ceramics.

Pointina

With PCI Durapox NT* by the grouting or the spraying method. After approx. 5 to 10 minutes, pre-wash the surface with warm water and PCI Epoxi-Schwamm hart* (hard sponge). After that, wash with PCI Epoxi-Schwamm fein* (soft sponge). Wash off any remaining film at the final cleaning, i.e. approx. 24 hours after pointing. Cleaning is facilitated by adding PCI RS-Reiniger-Extra* to the washing water.

Movement joints

The movement joints pre-filled with PCI DIN-Polyband* are closed in an elastic manner with the PU sealing material PCI Elritan 140*. Prior to pointing, the cleaned joint edges must be primed with PCI Elastoprimer 135*.

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

* The processing guidelines/product information of PCI Augsburg GmbH (www.pci-augsburg.de) must be strictly observed!





Material consumption for the PCI products to be used

approx. 0.4 kg/m²

PCI Apoflex:	at least 2.8 kg/m²					
PCI Durapox NT:	Joint width	Joint depth	Consumption			
	10 mm 8 mm 6 mm	10 mm 10 mm 10 mm	approx. 0.8 kg/m ² approx. 0.6 kg/m ² approx. 0.45 kg/m ²	(+ 1.3 kg/m ² HS 020) (+ 1.0 kg/m ² HS 020) (+ 0.75 kg/m ² HS 020)		
Laving toothing 2 x 6		annrox 3 mm	annrox 1.8 kg/m²	(+ 2 95 kg/m ² HS 020)		

approx. 2.45 kg/m²

(+ 4.0 kg/m² HS 020)

PCI Elastoprimer 135:

Laying, toothing 2 x 8

PCI Epoxiarund 390:

approx. 0.01 I/Ifm PCI Elritan 140:

Joint 10 x 10 mm: approx. 110 ml/lfm Triangular joint 10 x 10 mm: approx. 60 ml/lfm

approx. 4 mm

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