AREAS OF APPLICATION

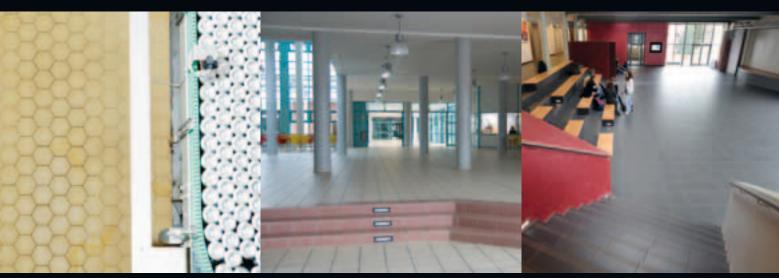
CHEMICAL & PHARMACEUTICAL INDUSTRY

FIRE & RESCUE STATIONS



BEVERAGE INDUSTRY

COMMERCIAL BUILDINGS



FOOD INDUSTRY

FOOD RETAILING

PUBLIC AREAS



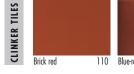
STONEWARE mytec...

COLOURS and COLOURCODES



GRAINED				H				
25	Cora	600	Katerina	602	Gitta	610	Tina	611
COARSE	Freia	612	Tessa	613	Atlanta	250	Grey porphyr	251

DEKORTEC	16			ľ	30	
	Galaxyit	730	Sandstorm	751	Green Jade	760



COMPLETE RANGE:

ACCESSORIES STONEWARE and CLINKER TILES

Technical values: tested according to DIN EN ISO 10545 Section 1-16

Argelith fine porcelain stoneware tiles comply in all tested properties with the requirements of the material Norm DIN EN 14411, Section G, Group B I and UGL.

	Hexalith 108 x 125 x 18 mm	to DIN EN 14411	Argelith Bodenkeramik
STONEWARE	Modulus of rupture N/mm² and average breaking strength in N	min. 35 N/mm²	ca. 73,3 ± 4,1 ca. 15289 ± 911
NE	Resistance against deep wear	max. 175 mm ³	ca. 100 mm³
STC	Water absorption in weight - %	max. 0,5 %	< 0,05 %

The above values are an extract from a test certificate. We will happily send you a test certificate for your desired material.

Surfaces:





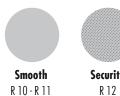
R 12/V 06 R 13/V 08

Technical values according to DIN 18158

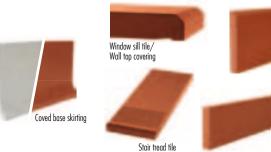
		•	
	Tested characteristic	requirement in DIN	Argelith is better!
	Modulus of rupture	min. 20 N/mm²	38,1 N/mm ²
	Compressive strength	min. 150 N/ mm²	252 N/ mm ²
	Water absorption	max. 3 %	fulfilled
ES	Acid resistance	required	fulfilled**
CLINKER TILES	Alkali resistance	required	fulfilled**
필	Frost resistance	required	fulfilled
	Resistance against wear by grinding	max. 10 cm²	5,7 cm ²
	Size consistency	±1,5%	fulfilled
	Coefficient of linear thermal expansion	5-8 x 10 ⁻⁶ K ⁻¹	6,7 x 10 ⁻⁶ K ⁻¹
	Thermal shock resistance	required	fulfilled

** Exception: Hydrofluoric acid (HF) and its compounds

Surfaces:











External right angle coved based skirting

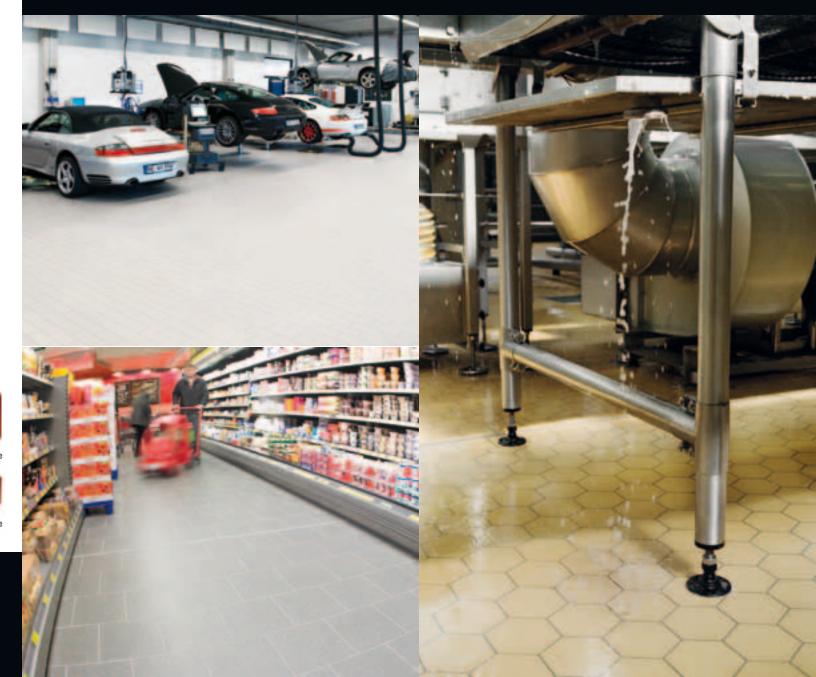


Strong tiles for heavy loads

STONEWARE mytec... dekortec...

CLINKER TILES

MADE IN GERMANY



CLEAN AND HYGIENIC • ATTRACTIVE AND DURABLE QUALITY SINCE 1870 STRONG TILES FOR HEAVY LOADS



Argelith Bodenkeramik H. Bitter GmbH has decades of experience in the production of high quality tiles and ceramics.

1870: Building of the Hoffmann Ring kiln - first ceramic production in Bad Essen — Wehrendorf

1965: Concentration to clinker tile production on 16mm and greater thickness

2001: Building of the stoneware factory

2005: Start-up for the second roller kiln

2009: Diversification of our product line called dekortec®. This new line combines functionality with aesthetics in a broad range of attractive designs

AREAS OF APPLICATION



AUTOMOTIVE (SERVICE & SHOWROOM)



A comparative test* of Argelith quality

Argelith Bodenkeramik H. Bitter GmbH has been a manufacturer of ceramic tiles since 1965, specialising in the production of thicknesses starting at 16 mm.

Boasting many years of experience and technical expertise, Argelith is the only supplier to offer clinker tiles in thicknesses up to 30 mm and stoneware in thicknesses up to 18 mm.

* Excerpt from the test report "Load distribution of tiles and slabs"



15 mm tile on concrete slab: Fracture of slab and tile at 37.800 N (average value)



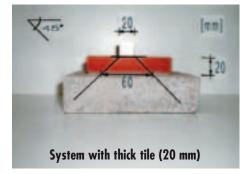
20 mm tile on concrete slab Fracture of slab and tile at 45.200 N (average value)

1.000 N (corresponds to 100 kg) per second.

The test clearly shows:

- **✓** The thicker the tile, the greater the load required to cause fractures.
- ✓ Load distribution of a tile depends on its thickness.
- ✓ As tile thickness increases, load distribution is also greater, resulting in increased
- ✔ Ceramic tiles work to distribute the load into the substructure. This load-distribution effect is greater when thicker tiles are used. This should be taken into account during selection and when determining the expected mechanical load.





Tests were carried out with a load increase of approximately The break occured as the force decreased, bringing along with it visible damage to the test pieces..

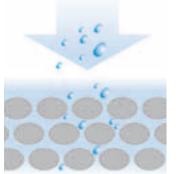
System tested	Breaking load in N		
Load distribution 20x20mm	Single values	Average value	
Mortar (no tile) 150 x 150 x 40	19.000 20.500 22.000	20.500	
tile 100 x 100 x 8 mm on mortar 150 x 150 x 40 mm	28.000 30.000 26.000	28.000	
tile 100 x 100 x 12 mm on mortar 150 x 150 x 40 mm	34.000 35.500 33.000	34.200	
tile 100 x 100 x 15 mm on mortar 150 x 150 x 40 mm	37.000 37.500 39.000	37.800	
tile 100 x 100 x 20 mm on mortar 150 x 150 x 40 mm	46.000 45.500 44.000	45.200	



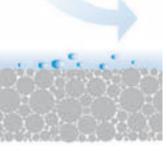


STONEWARE





Voids lead to increased water absorption



The extreme density prevents water and moisture from penetrating. This helps achieve maximum stain resistance.

An attractive surface and extreme load bearing are the critical attributes of Argelith Bodenkeramik. Our fully vitrified stoneware tiles are also notable for their safety features. Argelith tiles are dependable protection against breakage, abrasion, slippage, damp and dirt.

Argelith stoneware tiles are systematically checked to guarantee compliance with the strict criteria of the DIN EN 14411 (ceramic tiles and plates).

Design is more important today than ever when it comes to flooring. To meet our customers' requirements we offer a wide range of shapes, sizes, colours and surface structures. Additionally, we offer different degrees of load bearing in 12, 15 and 18 mm.

Advantages:

- Water absorption of < 0,05%
- No glasure / impregnation necessary
- Easy cleaning and low mainenance
- Highly valuable

- Highest mechanical loads possible
- Slip resistance from R 9 to R 13 08
- ✓ Chemical resistant
- ✓ Frost resistant
- ✓ Temperature resistant even over 100°C
- environmentally tiles through the assignment of only natural

