

Model: HANNOVER TOPO ANT.L 120X120(A)

Codes: 100310948

Water absorption: Bla - Porcelain tile (wa <= 0.1%)

Finish: Glazed / Non-slip

Tone variations: V3

Rectified: Yes



DIMENSIONAL FEATURES

UNE-EN ISO 10545-2

Thickness	8.5 mm	+/-5%*
Width	1200 mm	
Length	1200 mm	
Length and width deviation	Below 0.15%	+/-0.3%*
Side straightness deviation	Below 0.15%	+/-0.3%*
Squareness deviation	Below 0.15%	+/-0.3%*
Surface flatness deviation	Below 0.15%	+/-0.4%*

*ISO-13006:2018 UNE-EN 14411:2016

FEATURES



Surface texture that minimizes the risk of slipping. Soft finishes for safe walking.



Natural-looking, non-glossy surface finish.

HIGHKIER

An exclusive large-format floor tile which has been thought up for those surfaces that look for an optical continuity and greater spaciousness.



Name given to the finish of those tiles dimensionally improved after the firing process.



U3



Installation on floor

MECHANICAL FEATURES

UNE-EN ISO 10545-4-6-7-9-11

Breaking strength	2366 N	>1300 N*
Modulus of rupture	53 N/mm2	>=35 N/mm2*
Abrasion resistance	4	
Crazing resistance	PASS	
Qb-upec (u)	3	
Qb-upec (p)	3	
Qb-upec (e)	3	
Qb-upec (c)	2	
Resistance to thermal shock	RESISTE	

*ISO-13006:2018 UNE-EN 14411:2016

HYGIENIC FEATURES

UNE-EN ISO 10545-13-14

Chemical resistance	Class "A" for swimming pools and cleaning products (resists attack). Minimum Class "B" for acids and bases	B Min.*
Stain resistance	Class 5. Easy cleaning with water	3 Min.*

*ISO-13006:2018 UNE-EN 14411:2016

System Certification



ANTI-SLIP VALUE

Reference standards: EN 16165 (Annex A, B, C) - ANSI A326.3 - AS 4586

Dynamic coefficient of friction (dcof)	0.78 (T7C2)	
Slip resistance (wet pendulum) irhd 55	CL3	
Slip resistance (shod feet)	R-12	16445*
Pendulum test value (ptv) irhd 96	WET 64 / DRY 69 (T7C2)	
Slip resistance (wet pendulum) (aus) irhd 55	P5	AS 4586*
Slip resistance (wet pendulum) (aus) irhd 96	P5	AS 4586*

*ISO-13006:2018 UNE 14411:2016 ANSI 137.1 AS 4662

DETERMINATION OF LIGHT REFLECTANCE VALUE (LRV)

UNE-EN ISO 10545-18

Determination of light reflectance value (Irv)	37.84	
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*ISO-13006:2018 UNE-EN 14411:2016

PACKING

Sales units per box	1.440092 M2/BOX	
Sales units per pallet	60.483871 M2/PAL	
Sales units per unit	1.440092 M2/PIECE	

SCOPE OF USE

Technical code-1	6 - Use on heavy traffic floors	
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System Certification



Do not use cleaning agents containing hydrofluoric acid.

It is recommended to fix tiles with a minimum joint of 1,5 mm. Do not fix without joint.

For big sizes, it is recommended to fix with mortars containing polymeric additives and to use the double glueing technique.

Mosaic tiles must be grouted.

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RECOMMENDED USE LOCATIONS

Single-family dwelling

Outdoor Premises: Porches, verandah, terrace, outdoor access or circulation area

External Premises: External staircases and ramps

Indoor Premises - Dry: Entrance and other enclosures with direct opening to the outside (garden, terrace, storage room).

Indoor Premises - Dry: Room, room, bedroom or other enclosure without direct access to the outdoors.

Indoor Premises - Dry: Individual staircase

Indoor Premises - Wet: Kitchen, mini kitchen in living area, laundry room

Indoor Premises - Humid: Bathroom or Toilet

Collective housing

Outdoor premises: Balconies, terraces, galleries (not accessible from the outside)

Outdoor Premises: Uncovered Terraces (Accessible from outside)

Indoor Premises - Common Elements: Entrance Hall (less than 15 dwellings)

Interior Premises - Common Elements: Entrance Hall (more than 15 dwellings)

Indoor Premises - Common Elements: Stairs and corridors with or without lifts

Indoor Premises - Common Elements: Meter centralisation room

Indoor Premises - Common Elements: Refuse Container Room

Indoor Premises - Common Elements: Storage rooms for children's cars, bicycles, etc.

Indoor Premises - Residential - Dry: Entrance, living room, dining room, professional office with reception of customers

Indoor Premises - Housing - Dry: Bedrooms, personal office, storage room, changing room

Indoor Premises - Dwelling - Damp: Kitchen, mini kitchen and living area, laundry room

Indoor Premises - Dwelling - Damp: Bathrooms or shower rooms

Public Residential

Single or double rooms

Group rooms

Intensive use dormitories in residences, schools, etc.

Bathrooms in single or double rooms

Toilets in collective rooms, plant bathroom, office, service rooms maintenance plant

Administrative

Office with workstation

Collective office, open plan office

Meeting/conference room, shops and retail (sales area)

Shops, warehouses with average public attendance (sales area)

Department stores, hypermarkets, shopping centres (sales area)

Commercial

Shops and retail trade (Sales area)

Shops, warehouses with average public attendance (sales area)

Department stores, shopping centres (sales area)

Teacher

Pre-school and Primary: Classroom with direct opening to the exterior

Pre-school and Primary: Classroom without direct opening to the exterior

Pre-school and Primary: Playroom, exercise room, multi-purpose room with direct opening to the outside.

Infant and Primary: Playroom, exercise, multi-purpose room without direct opening to the outside.

Secondary, Baccalaureate and University: Classroom with direct opening to the outside.

Secondary, Baccalaureate and University: Classroom without direct opening to the outside.

Secondary, Baccalaureate and University: Multi-purpose classroom, meetings

Secondary, Baccalaureate and University: Laboratories with aggressive chemicals

Secondary, Baccalaureate and University: Other laboratories (physics, electricity, radiation, mechanics).

Sanitary

Single-user room, isolation room

Collective room

Waiting rooms, consultation rooms, distribution corridors

Major and minor operating theatres. Operating theatres

System Certification



Radiological premises

Rehabilitation, massage, therapy and rehabilitation centres

Laboratories (no public access)

Public attendance

Catering: Main dining room, banqueting hall (intensive use)

Catering: Dining room restaurant, bar, cafeteria (medium use)

Catering: Dining room, company cafeteria

Catering: Drinks distribution outlet, automatic machines

Catering: Collective kitchen, large facilities

Catering: Cooking in small restaurant, bar, cafeteria, cafeteria, company canteen

Entertainment and recreation: Large hall for receptions, dances, discotheques. Intensive use

Entertainment and recreation: Showroom, cinema, theatre, sports activities, amphitheatres, games (Closed)

Entertainment and recreation: Showroom, cinema, theatre, sporting activities, amphitheatres, games (Indoor)

Entertainment and recreation: Showroom, cinema, theatre, sports activities, amphitheatres, games (Outdoor)

Entertainment and recreation: lounges, waiting room, TV lounge, games room

Libraries and reading rooms: Libraries, reading rooms, temples of worship, museums (With public access)

Libraries and reading rooms: Libraries, reading rooms, houses of worship, museums (Internal use)

Sports Facilities: Indoor swimming pools and saunas

Sports Facilities: Private outdoor swimming pools

Sports Facilities: Public open-air swimming pools

Common transit areas

Outdoor premises: outdoor circulation area with average traffic

Outside premises: Parking area (pedestrian use only)

External premises: External stairways and ramps with intensive transit

Outdoor premises: Stairways and outdoor ramps with medium traffic

Outdoor premises: Outdoor terrace for hotel and restaurant use

Indoor premises: Public entrance hall and lifts, in hospital, administrative, public and similar activities.

Indoor premises: corridors and common areas with heavy traffic

Indoor premises: Corridors and common areas with average traffic

Indoor premises: Main staircases and heavy duty ramps

Indoor premises: Main staircases and ramps for medium use

Service, facilities

Toilets for the public in public, commercial, educational or intensive-use buildings

Toilets for the public in medium-use buildings. Employee toilets

Toilets in office areas, restricted use

Collective sanitary facilities, changing rooms and showers

Sanitary premises special hygiene (hospitals, food)

Premises for telephone, computer and other dry installations

Heating, air-conditioning and other humid premises

Re-printing service, copies of plans, photography

Archive and storage premises

Laundry, rubbish and organic waste storage premises

Various

Cladding of bonded or mixed facades

Facade cladding with mechanical anchors

Kitchen worktops, bars, restaurants

Public bathroom countertops

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