Model: BERNA ACERO 59,6X59,6(A)
Codes: 100245391
Water absorption: BIa - Porcelain tile (wa <= 0.1%)
Finish: Glazed / Standard
Tone variations: V3
Rectified: Yes



Sistema DAPc® Declaración Ambiental de Productos de Construcción

QB UPEC

DIMENSIONAL FEATURES
UNE-EN ISO 10545-2

Thickness	10.3 mm	+/-5%*
Width	596 mm	
Length	596 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

Natural-looking, non-glossy surface finish.

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

U3 — U3

Installation on floor

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

Breaking strength	2728.1 N	>1300 N*
Modulus of rupture	48 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

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 recomended to fix with mortars containing polymeric additives and to use the double glueing technique.
Mosaic tiles must be grouted.
This document is only commercial and cannot be used as expert opinion, documentary evidence or in any legal or administrative procedure unless authorized by PORCELANOSA S.A.

ANTI-SLIP VALUE

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

Dynamic coefficient of friction (dcof)	>0,42	
Slip resistance (wet pendulum) irhd 55	CL1	
Slip resistance (shod feet)	R-9	14328*
Slip resistance (barefoot)	A	
Pendulum test value (ptv) irhd 96	WET-35 / DRY-54	

*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 (lrv)	29.01	

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

PACKING

Sales units per box	1.420858 M2/BOX	
Sales units per pallet	45.467462 M2/PAL	
Sales units per unit	0.355215 M2/PIECE	

SCOPE OF USE

Technical code-1	6 - Use on heavy traffic floors	

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 recomended to fix with mortars containing polymeric additives and to use the double glueing technique.
Mosaic tiles must be grouted.
This document is only commercial and cannot be used as expert opinion, documentary evidence or in any legal or administrative procedure unless authorized by PORCELANOSA S.A.

RECOMMENDED USE LOCATIONS

Single-family dwelling
Outdoor Premises: Porches, verandah, terrace, outdoor access or circulation area
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)
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: 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.
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 without direct opening to the exterior
Infant and Primary: Playroom, exercise, multi-purpose room without 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: 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
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
Entertainment and recreation: Large hall for receptions, dances, discotheques. Intensive use
Entertainment and recreation: Showroom, cinema, theatre, sports activities, amphitheatres, games (Closed)

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 recomended to fix with mortars containing polymeric additives and to use the double glueing technique.
Mosaic tiles must be grouted.
This document is only commercial and cannot be used as expert opinion, documentary evidence or in any legal or administrative procedure unless authorized by PORCELANOSA S.A.

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)
Common transit areas
Indoor premises: corridors and common areas with heavy traffic
Indoor premises: Corridors and common areas with average traffic
Service, facilities
Toilets in office areas, restricted use
Sanitary premises special hygiene (hospitals, food)
Premises for telephone, computer and other dry installations
Re-printing service, copies of plans, photography
Archive and storage premises
Various
Cladding of bonded or mixed facades
Facade cladding with mechanical anchors
Kitchen worktops, bars, restaurants
Public bathroom countertops

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 recomended to fix with mortars containing polymeric additives and to use the double glueing technique.
Mosaic tiles must be grouted.
This document is only commercial and cannot be used as expert opinion, documentary evidence or in any legal or administrative procedure unless authorized by PORCELANOSA S.A.