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PRISM JOHNSON LIMITED

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Hyderabad - 500016, Telangana, India.

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BASIC COLLECTION

BRO0823MXE001-CC Cat/Johnson Endura Basic Collection/Aug'23





YOU CAN ALSO REACH US AT

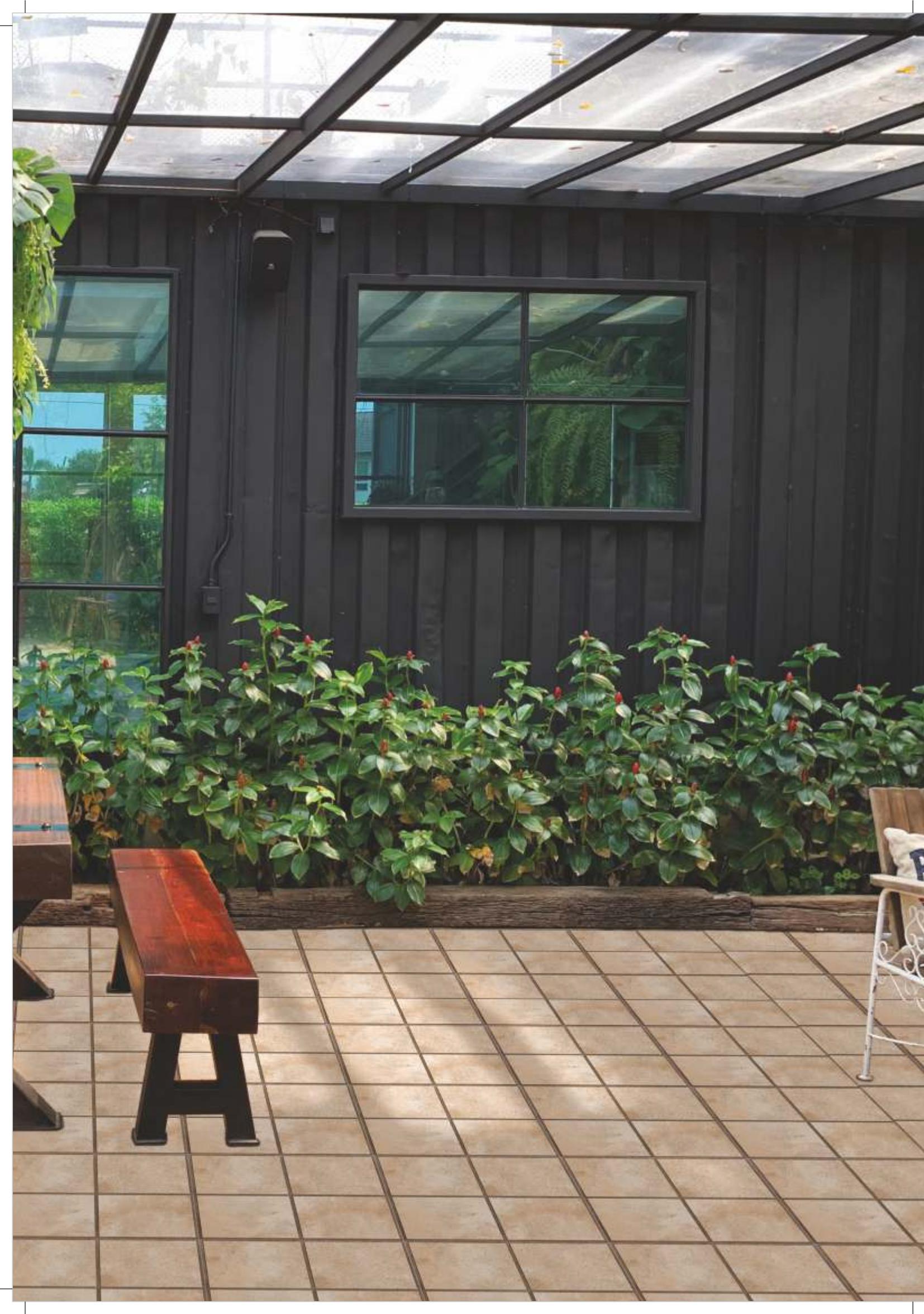
| Region | Branch | Tel.: |
|--------|--------------|-------------------------|
| East | Kolkata | 033-46021880 |
| | Bhubaneshwar | 0674 6539836/37/2430240 |
| | Siliguri | 9836065812 |
| | Guwahati | 8135846661/7575900492 |
| | Ranchi | 9576038118 |
| West | Mumbai | 022-40647500 |
| | Thane | 022-25867600 / 666 |
| | Pune | 020-41301164 / 31 |
| | Aurangabad | 8669600748 |
| | Ahmedabad | 079-48480010 |
| | Raipur | 0771-4919129 |
| | Indore | 0731-4007441 |
| North | Jalandhar | 0182-4505038 / 39 |
| | Chandigarh | 0172-4697100 |
| | Delhi | 011-49526600 |

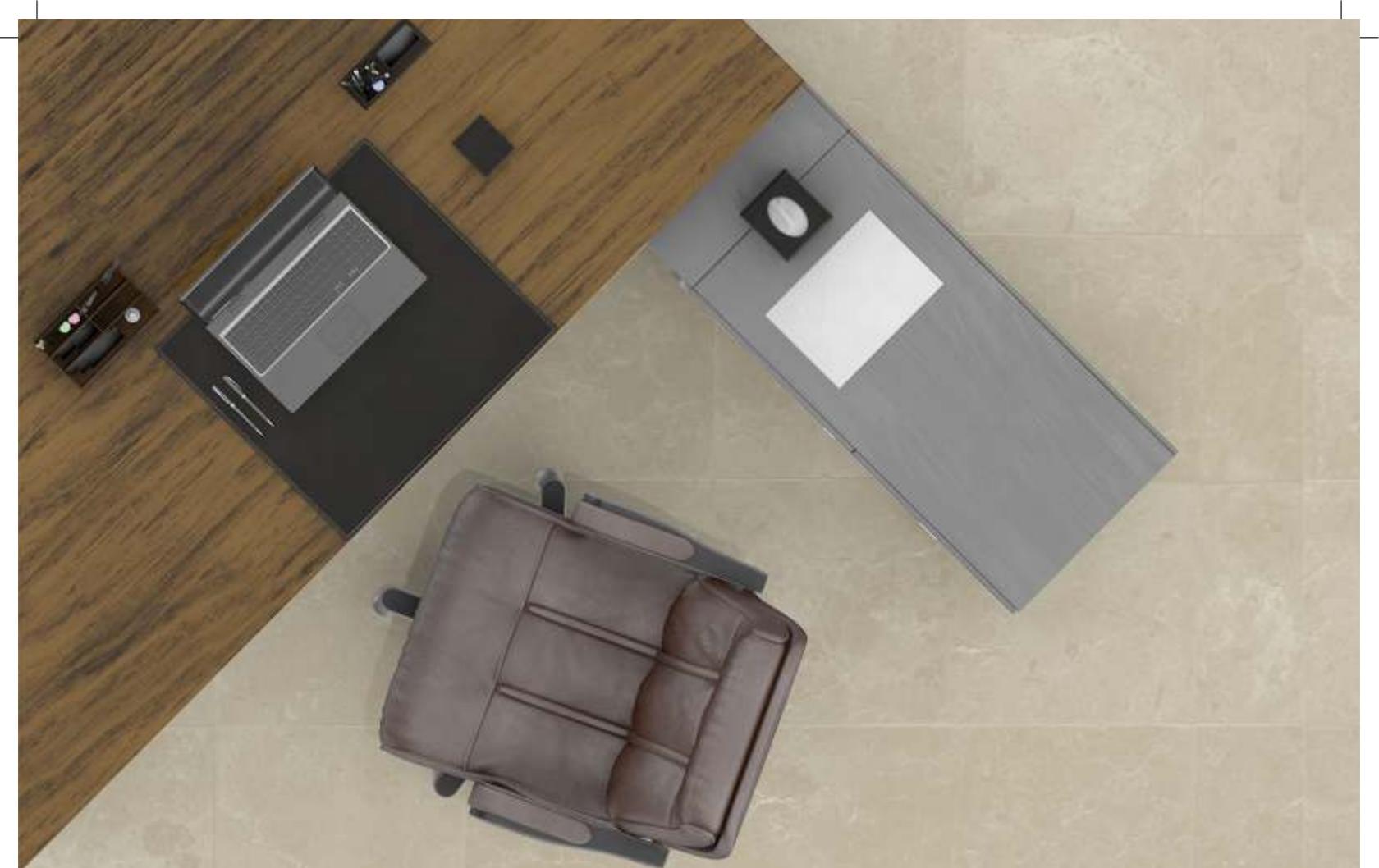
| Region | Branch | Tel.: |
|--------|--------------------|---------------------------|
| North | Jaipur | 0141-2368329 |
| | Lucknow | 0522-2721699 |
| | Varanasi | 0542-2222620 |
| | Patna | 9576038781 |
| South | Bengalure | 080-22234310/080-22234330 |
| | Hyderabad | 040-29802270 / 71 / 72 |
| | Vijayawada | 9666429666 |
| | Vishakhapatnam | 0891-2796376 |
| | Tirupati | 9121228960 |
| | Kochi | 0484-4871277 |
| | Kozhikode | 0422-4382698 |
| | Thiruvananthapuram | 0471-2720141 |
| | Chennai | 044-28544116 / 28541881 |
| | Coimbatore | 0422-4382698 |
| | Madurai | 0452-4355584 / 4355594 |
| | Trichy | 9486718544 |

EXPERIENCE CENTERS

| Location | Address | Tel.: |
|--------------------|---|---------------------------|
| Kolkatta | HOUSE OF JOHNSON - 83 JBS Haldane Avenue, TOPSIA Trinity towers Kolkata - 700046 | 033-46021880 |
| Guwahati | HOUSE OF JOHNSON - 1st Floor, Above Royal Riders Honda, Near Rahul Kata, Pub Bragaon, Garchuk, Guwahati - 781035 | 7575900492 |
| Bhubaneshwar | HOUSE OF JOHNSON - Ray Tower, 1st Floor, N4/237, Indradhanu market, IRC Village, Nayapalli, Bhubaneshwar, Orissa - 751015 | 0674 6539836/37/2430240 |
| Patna | HOUSE OF JOHNSON - SK Builders and colonizer Pvt.Ltd.,1st Floor, SK Palace, Saguna more, Bihar - 801503. | 9702651243 |
| Chandigarh | HOUSE OF JOHNSON - SCO 214, sector14, Panchkula, Haryana - 134109 | 0172-4637724 |
| Delhi | HOUSE OF JOHNSON - First & Mezzanine Floor, B-1/G-3, Mohan Industrial Estate, Mathura Road, New Delhi - 110094. | 11-49526600 |
| Lucknow | HOUSE OF JOHNSON - 1st Floor, Prithvi Ratan Height,Plot No CP-4, Vijayant khand - 3, Gominagar Yojna, Lucknow - 226028 | 0522-2721699 |
| Varanasi | HOUSE OF JOHNSON - Ashakunj, 1st floor, D59/103 D4, Opp Siddharth Complex, Sgra Mehmoorganj Road, Varanasi - 221010 | 0542-2222620 |
| Aurangabad | House Of Johnson Aurangabad - Gut No 16/44, NH-211, Near Balapur Phata, Near Ramkisan Lawns, Beed Bypass Road Aurangabad 431005 | 8669600748 |
| Pune | HOUSE OF JOHNSON - Sable House, Poona Snuff Factory, Sr. No 11A, Plot 408/4/5, Satara Road, Gultekadi, Pune - 411037 | 7350009364 |
| Thane | HOUSE OF JOHNSON - Shop No.5, Gr.Floor, Cosmos Jewels, Near Dmart, Anand Nagar, Ghodbunder Road, Thane West - 400615 | 8424003247 |
| Mumbai - Andheri | HOUSE OF JOHNSON - 1st flr, Bonanza, Sahar Plaza, Nr Hotel Kohinoor continental, J B Nagar, Andheri Kurla Road, Andheri East, Mumbai - 400059 | 8108030975 |
| Ahmedabad | HOUSE OF JOHNSON - F 106-107, Shivalik Plaza, IIM Road, Panjrapole Cross Road, Ahmedabad, Gujarat - 380015 | 079-48480010 |
| Indore | HOUSE OF JOHNSON - Shop No 5, 6, 7 and 8, Upper Ground Floor, Exotica, Shalimar Township, Village Niranjapur, A. B. Road, Indore, Madhya Pradesh - 452001 | 0731-4007441 |
| Raipur | HOUSE OF JOHNSON - 2nd Floor, MM Silver Plaza, Opp Udyog Bhawan, Ring Road - 1, Raipur, Chattisgarh - 492001 | 771-4919129 |
| Coimbatore | HOUSE OF JOHNSON - Elysium Towers, Park Gate Rd, No. 21, ATT Colony, Gopalapuram, Coimbatore - 641018 | 0422-4382698 |
| Chennai | HOUSE OF JOHNSON - 82, 84 & 86 Bascon Maeru, 1st floor, Kodambakkam High Road, Nungambakkam, Chennai - 600034 | 044-48611632 |
| Kochi | HOUSE OF JOHNSON - Door no. 11/300 f, Next to VTJ Hyundai, NH 47 Kundanoor, Maradu, Kochi, Ernakulam - 682304 | 0484-4871277 |
| Kozhikode | HOUSE OF JOHNSON - Tilal Tower, Near Nexa Showroom, Kudilthod, Malaparamba bypass, Kozikode, Kerala - 673017 | 0495-2357505 |
| Thiruvananthapuram | HOUSE OF JOHNSON -1st Floor, Sreedhanya Apex, TC 22/3720 (4) Vellayambalam, Sasthamangalam PO, Thiruvananthapuram, Kerala - 695010 | 0471-2720141 |
| Bengalure | HOUSE OF JOHNSON - No.39, Rajaram Mohan Roy Road , Opp. Kanteerava indoor Stadium, Bengalure - 560027 | 080-22234310/080-22234330 |
| Bengalure | HOUSE OF JOHNSON - Dodda Banaswadi, Opp. New Baldwin Residential School, Bengalure-560043 | 080-41692976 / 41692060 |
| Hyderabad | HOUSE OF JOHNSON - SP Jubilee Crown (3rd Floor) Plot - 1270, Road No.36, Jubilee Hills, Hyderabad - 500033 | 8897525143 |

For address and contact numbers of our Johnson Exclusive Showrooms and Authorized Retailers, please visit our website www.hrjindia.com





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BR SA S C



PLAIN SERIES

30X30 cm | 1 CM THICK

HI-TRAFFIC



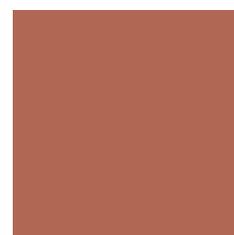
Grey



Grey Plus



Ivory Plus



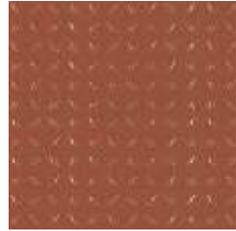
Terracotta Plus



Big Check



Ivory Plus D/K



Terracotta Plus D/K

Block Check



Ivory Plus K



Terracotta Plus K



GOOD GRIPS SERIES

30X30 cm | 1 CM THICK

HI-TRAFFIC

Bubble Step Treads



Ivory Plus D/K



Terracotta Plus D/K

Capsul



Ivory Plus D/K



Terracotta Plus D/K

Checkered



Grey Plus D



Ivory Plus D/K



Terracotta Plus D/K

Cobblestone



Ivory Plus D/K

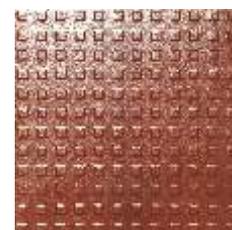


Terracotta Plus D/K

Cubix



Ivory Plus D/K



Terracotta Plus D/K

Diamond Cut



Ivory Plus D



Terracotta Plus D

Polka Check



Ivory Plus D/K



Terracotta Plus D/K



GOOD GRIPS SERIES

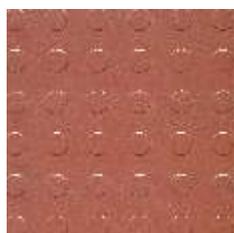
30X30 cm | 1 CM THICK

HI-TRAFFIC

Polka Dot



Ivory Plus



Terracotta Plus



Grey Plus

Polka Delta Dot



Ivory Plus



Terracotta Plus

Polka Dot Strip



Ivory Plus

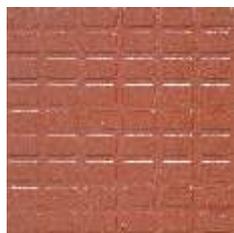


Terracotta Plus

Polka Rectangle



Ivory Plus



Terracotta Plus

Polka Strip



Ivory Plus

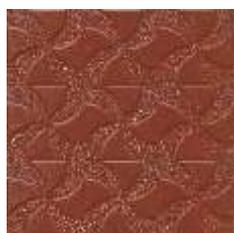


Terracotta Plus

Tracia



Ivory Plus



Terracotta Plus

Wavy



Ivory Plus



Terracotta Plus



**Beauty that goes beyond
what meets the eye.**

beauty / strength

Why do beauty and strength have to be a matter of choice? Do we really have to let go of one to choose the other? Why can't they exist in harmony? At Johnson we set out to find answers to these questions. And the quest came to a fruitful culmination with the 1.2cm Endura EDC collection. They are Matt Glazed Vitrified Tiles (GVT). Which means they are robust, skid-resistant, and all-enduring. Making them a practical and sensible alternative to actual stone, wood, cement or even slate.

Maximum Variety Minimum Care

The range has been conceived as a range of Art Deco tiles; with every collection coming with its own motif and highlighter tiles. Altogether, they help you create that stately, heritage look for your living spaces. And just as their beauty begins to cast a spell on you, their sheer strength and endurance gives you a sense of reassurance only a few tiles in its category could afford. And it is this quality of being beautiful inside out is what makes it ideal for high-traffic areas like Malls, Retail Showrooms, or even your dream home. Come see for yourself, a revelation of beauty and strength, ready to permeate every aspect of your exterior spaces.

DISTINCTIVE VALUES >

Main features :

Why Endura Designer Collection?

The unique Endura Designer Collection Glazed Vitrified tiles are 1.2 cm thick and are also made scratch-resistant and stain resistant through a special Glazed Vitrification process. Two unique properties that make them the perfect choice, if you seek an all-enduring and an aesthetically pleasing ambience. Along with these there several other aspects to the Endura EDC 1.2 cm that make it the tile you would choose with eyes closed -

- **Strong Body**

Vitrified with high sheer and tensile strength. It means longevity and durability even in the most high traffic applications and performance in higher temperature variations.

- **Robust Surface**

Layers of special glazes and coating that provide slip-resistance, scratch-resistance and robustness to perform under high footfall traffic conditions, while keeping a fresh and new look, intact for years to come.

- **Elegant Designs**

Designed keeping in mind the post-application flow, shades and textures; thereby maintaining design harmony and semblance in mix-matched patterns.

- **Wide Applications**

Entrance lobbies, courtyards, restaurants, schools, shopping areas, terraces, passages, balconies, exteriors, and more; Basically any high-traffic area that demands to look pleasing, demand the use of Endura EDC. Not just for external use, these concepts just suit compliment internal applications, especially when your theme demands rich, earthen shades, a contemporary yet rustic theme.

- **Minimum Care**

With the upper surface being totally sealed it leaves no room for porosity or absorb anything. Which means you get to flaunt all you want, without a care.

Come, touch and feel this unique collection and realise its potential for your project – no matter big or small, commercial or residential, external or internal. And then you'll experience it in all its beauty and strength.

We recommend usage of 3-4 mm spacers and Ardex Endura grouts for EDC installations in your project as per international tile fixing standards.

FEATURES:





DESIGNER SERIES

40X40 cm | 1.2 CM THICK

DESIGNER COLLECTION



Beach Stone Beige R



Beach Stone Grey R



Betsy Black R



Betsy White R



Bradley Beige R



Bradley Bronze R



Bradley Nero R



Bradley Silver R



Bruno Wood R/K



Carron Beige R



Carron Cotto R



Carron Mix R



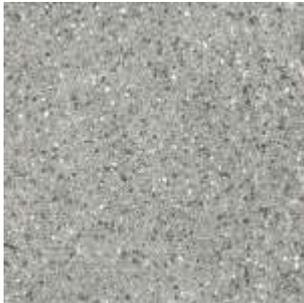
Carrom Wood R



Cosmo Black R/K



Cosmo Mix R/K



Flake Grey R



Flake Nero R



Grano Grey R



Grano Nero R



Ground Stone R/K



Ground Stone Grey R/K



Hexa Grey R/K



Hexa Mix R/K

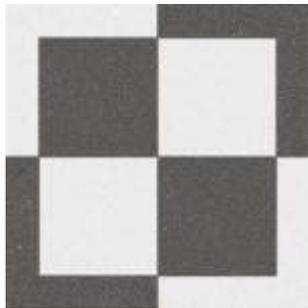


Jezza Bronze R/K

DESIGNER SERIES

40X40 cm | 1.2 CM THICK

DESIGNER COLLECTION



Jeza Grey

[R/K]



Maze Grey

[R/K]



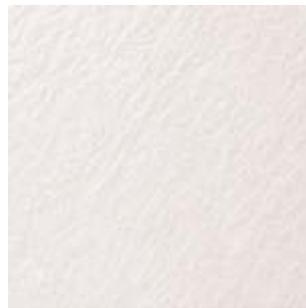
Maze Mix

[R/K]



Maze Wood

[R/K]



Mica Beige

[R]



Mica Bronze

[R]



Mica Nero

[R/K]



Mica Slate

[R/K]



Midway Cotto

[R]



Midway Grey

[R/K]



Porto Brown

[R]



Rangoli Mason Camel

[R/K]



Rangoli Mason Choco R



Rangoli Mason Russet R



Ridge Brown R



Ridge Decore R



Ridge Mix R



Ridge Nero R/K



Silva Copper R/K



Stone Aqua R



Stone Brown R



Stone Cotto R/K



Stone Crema R/K



Stone Grey R/K

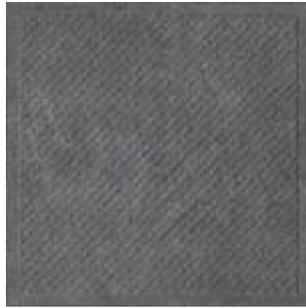
DESIGNER SERIES

40X40 cm | 1.2 CM THICK

DESIGNER COLLECTION



Stone Nero R/K



Strip Charcoal R



Strip Grey R



Tito Dot Biege R



Tito Dot Black R/K



Wood Strips Ash R



Wood Strips Choco R



Wood Strips Grey R



Andre Brown K



Archie Anchor K



Arch Stone Natura K



Arch Stone Wood K



Aric Brown K



Aric Sepia K



Bradley Nero K



Bradley Silver K



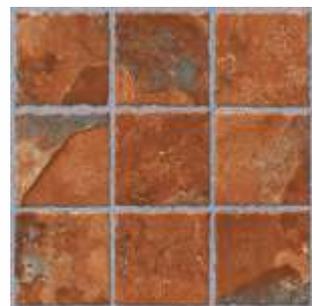
Canewood Gris K



Canewood Natura K



Canyon Grey K



Cosmo Cotto K

DESIGNER SERIES

40X40 cm | 1.2 CM THICK

DESIGNER COLLECTION



Cosmo Grey 



Cosmo Marble 



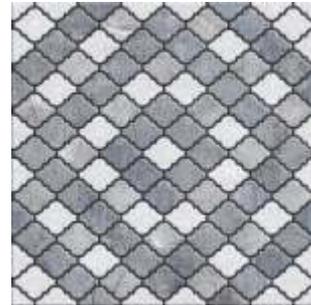
Cosmo Wood 



Drift Bruno 



Drift Cotto 



Drift Grey 



Drift Mix 



Hexa Cotto 



Karpet Azul 



Karpet Bronze 



Karpet Denim 



Karpet Grideco 



Karpet Monochrome [K]



Karpet Rust Cotto [K]



Karpet Rust Mix [K]



Karpet Smoky Blue [K]



Karpet Tan [K]



Mica Beige [K]



Mica Brown [K]



Midway Smoke [K]



Rangoli Mason Cotto [K]



Rangoli Russet [K]



Ridge Brown [K]



Ridge Decore [K]

DESIGNER SERIES

40X40 cm | 1.2 CM THICK

DESIGNER COLLECTION



Srtip Charcol 



Srtip Grey 



Strip Sandune 



Strip Tanero 



Texture Beige 



Texture Cotto 



Texture Mix 



Texture Wood 

E D C
ENDURA
Designer Collection

30x30cm 1.0 CM THICK



DESIGNER SERIES

30X30 cm | 1 CM THICK

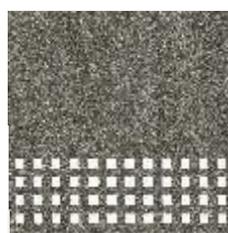
DESIGNER COLLECTION



Aeray Cotto [K]



Aeray Gris [K]



Altagris Cube Step [K]



Altagris Plain [K]



Angolo Beige [D]



Angolo Cotto [D]



Blocks Gris [D/K]



Blocks Ochre [K]



Capsule Beige [D]



Capsule Mix [D]



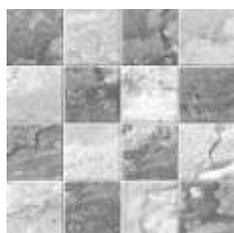
Cella Mocha [D]



Chessblock Bruno [K]



Chessblock Gris [K]



Chessblock Mix [K]



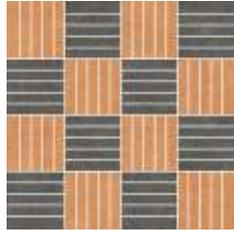
Cotto Natura [K]



Cross Ash [K]



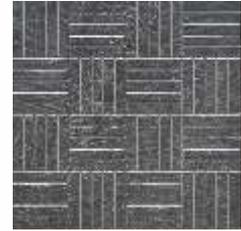
Cross Chalk D/K



Cross Mix D/K



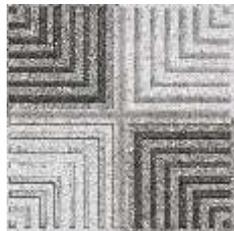
Cross Moss K



Cross Nero D/K



Cross Ochare D/K



Cross Square
 Gris K



Cross Square
 Mix K



Cross Square
 Umber D/K



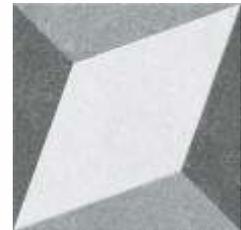
Cross Wood D/K



Cross Wood
 Moss D



Crossbric Slate K



Diam Gris D



Diam Marbo D



Diam Noir D



Floor Block Gris K



Floor Block Mix K

DESIGNER SERIES

30X30 cm | 1 CM THICK

DESIGNER COLLECTION



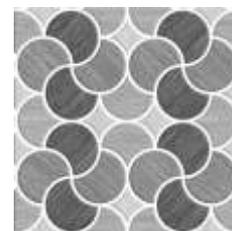
Flowcept Dark D/K



Flowcept Light D/K



Flower Circle Beige K



Flower Circle Gris K



Geo Pebble Beige D/K



Geo Pebble Mix K



Geo Pebble Natura D/K



Lithic Gris K



Lithic Nero K



Majestic Bruno D



Majestic Nero Slate K



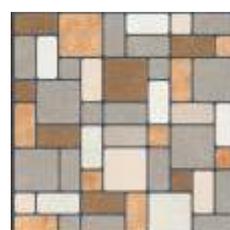
Majestic Slate Mix D



Mosiko Gris D/K



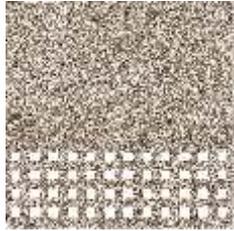
Mosiko Mix D



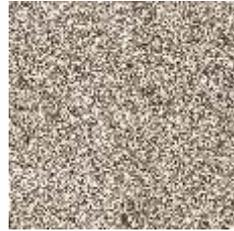
Mosiko Mix Cotto K



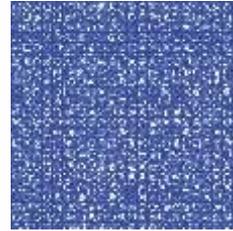
Mosiko Umber D/K



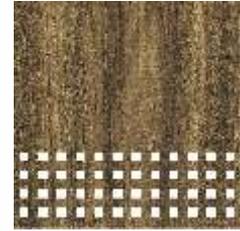
Murano Cube Step K



Murano Plain K



Neo Tosca Azul D



Oak Cube Step K



Oak Plain D/K



Ocean Cube Step K



Ocean Plain K



Octblox Café K



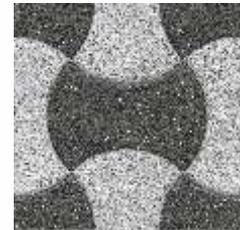
Parx Gris D/K



Parx Rust D/K



Parx Slate K



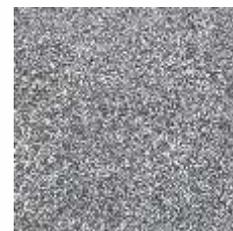
Paver Blox Nero D/K



Plank Natura D



Rangoli Square Earth K



Rhythm Gris K



Rockcept Dark K

DESIGNER SERIES

30X30 cm | 1 CM THICK

DESIGNER COLLECTION



Rockcept Light [K]



Royal Azure [D]



Royal Gris [D]



Royal Moss [D]



Royal Natura [D]



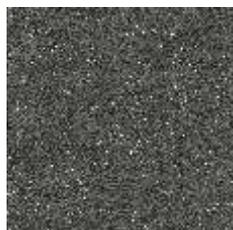
Royal Rust [D/K]



Rusblox Natura [K]



Rusblox Slate [K]



Sand Nero [K]



Stonecept Dark [D]



Stonecept Light [D]



Structo Gris [K]



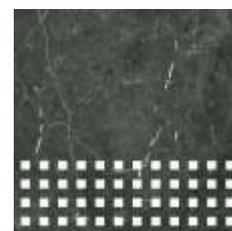
Teak Cube Step [K]



Teak Plain [K]



Verdana [K]



Verdana Step
Cube [K]



DESIGNER SERIES

30X30 cm | 1 CM THICK

DESIGNER COLLECTION



Vintage Feature D/K



Vintage Mocha D/K



Warm Blend D

HI-TRAFFIC TILES

| S. No. | Test Description | I.S.- 4457:2007 | IS - 15622:2017 Group B1b | Hi-Traffic | Test Method |
|-------------------------------|--|-------------------------|--------------------------------------|--------------------------------------|-----------------------------------|
| A) Dimension Quality | | | | 30X30X1.0 cm | |
| 1 | Deviation in Length & Width (Rectified) | ±0.5% | ±0.1% | ±0.1% | IS 4457:2007 Annex B / IS 13630-1 |
| 2 | Deviation in Thickness | ±5% | ±5% | ±4% | |
| 3 | Straightness of Sides (Rectified) | ±0.2% | ±0.1% | ±0.1% | |
| 4 | Rectangularity (Rectified) | ±0.2% | ±0.1% | ±0.1% | |
| 5 | Surface Flatness | ±0.3% | ±0.5% | ±0.3% | |
| 6 | Surface Quality | Min 95% | Min 95% | Min 95% | |
| B) Physical Properties | | | | | |
| 1 | Water Absorption | <0.5% | 0.08<E≤3 | <0.5% | IS 13630-2 |
| 2 | a) Scratch hardness of surface (Moh's scale) - Unglazed tile | - | ≥5 | ≥7 | IS 13630 part 13 |
| | b) Scratch hardness of surface (Moh's scale) - Glazed tile | - | ≥5 | ≥6 | |
| 3 | Flexural Strength (Average MOR) | >35N/mm ² | >30N/mm ² | >35N/mm ² | IS 13630 - 6 |
| 4 | Breaking Strength | ≥1300N | ≥1100N | >1800 N | IS 13630 - 6 |
| 5 | Impact Resistance | Manufacturer to declare | ≥0.55 | ≥0.55 | IS 13630 -14 |
| 6 | Deep Abrasion resistance (Unglazed tile) | <175mm ³ | <175mm ³ | <120 mm ³ | IS 13630 -12 |
| 7 | Resistance to Surface Abrasion of Glazed Tiles for Floor Application | - | Class II, Min | Min PEI IV - V | IS 13630 - 11 |
| 8 | # Skid Resistance | | | | |
| | a) Skid Resistance - Ramp Test | - | - | >R9 | DIN 51130 |
| | b) Coefficient of Friction | - | - | >0.42 | ISO 10545 -17 / ANSI A 326.3 |
| 9 | Frost Resistance | - | Manufacture to declare | No damage | IS 13630 -10 |
| 10 | Density (gm / cc) | - | ≥2 | >2.2 | IS 13630 part 2 |
| 11 | Moisture Expansion | Manufacturer to declare | - | ≤0.3 mm/m | IS 13630-part 3 |
| 12 | Color Resistance to UV Light | - | - | No change in color | DIN 51094 |
| C) Chemical Properties | | | | | |
| 1 | Resistance to Concentrated HNO ₃ & H ₂ SO ₄ Acid (wt. Loss) | <1.5 % | - | <0.8% | IS 4457:2007 Annex G |
| 2 | Resistance to Chemicals | | | | |
| | a) Resistance to Low concentrations of acids & alkalies | Manufacturer to declare | Manufacturer to declare | ULA/GLA | ISO 10545-13 |
| | b) Resistance to High concentrations of acids & alkalies | Manufacturer to declare | Manufacturer to declare | UHA/GHA | |
| | c) Resistance to household chemicals and swimming pool salts | Manufacturer to declare | AA min | AA min | |
| 3 | Stain Resistance | - | Class 1 min | Class 1 min | IS 13630 part 8 |
| D) Thermal Properties | | | | | |
| 1 | Linear Thermal Expansion | - | <7 x10 ⁻⁶ K ⁻¹ | <7 x10 ⁻⁶ K ⁻¹ | IS 13630 part 4 / ISO 10545-8 |
| 2 | Thermal Shock Resistance | - | 10 cycle, Min | No damage | IS 13630 part 5 / ISO 10545-9 |

Ramp Test: Suitable for all kind of surfaces (Plain, structural..etc)

Slider (BOT - 3000E Digital Tribometer): Suitable for plain / smooth surface and not working for structural / profiled surface

EDC KUNIGAL/DEWAS

| S. No. | Test Description | ISO 13006:2018 / EN 14411 Group Bla Requirement | IS - 15622:2017 Group B1b | Johnson Endura EDC | | Test Method |
|-------------------------------|--|---|--|-------------------------------------|-------------------------------------|--------------------------------|
| | | | | 1.0 cm | 1.2 cm | |
| A) Dimension Quality | | whichever is less applicable. Rectified | Rectified | | | |
| 1 | Deviation in Length & Width | ± 0.3% or ±1.0mm | ±0.1% | ±0.1% | ±0.1% | ISO 10545-2 / IS 13630-1 |
| 2 | Deviation in Thickness | ± 5% or ± 0.5mm | ±5% | ±4% | ±4% | |
| 3 | Straightness of Sides | ± 0.3% or ±0.8mm | ±0.1% | ±0.1% | ±0.1% | |
| 4 | Rectangularity | ± 0.3% or ± 1.5mm | ±0.1% | ±0.1% | ±0.1% | |
| 5 | Surface Flatness | ± 0.4% or ±1.8mm | ±0.5% | ±0.3% | ±0.3% | |
| 6 | Surface Quality | Min 95% | Min 95% | Min 95% | Min 95% | |
| B) Physical Properties | | | | | | |
| 1 | Water Absorption | ≤0.5%, individual Max 0.6% | 0.08%<E≤3, Individual 3.3 max | ≤0.5% | ≤0.5% | ISO 10545-3 / IS 13630-2 |
| 2 | Scratch Hardness of Surface (Moh's scale) | - | ≥5 | ≥6 | ≥6 | IS 13630 part 13 |
| 3 | Flexural Strength (Average MOR) | ≥35N/mm ² , Individual 32N/mm ² , Min | ≥30N/mm ² , Individual 27 min | >35N/mm ² | >38N/mm ² | ISO 10545-4 / IS 13630-6 |
| 4 | Breaking Strength | ≥1300 N | ≥1100 N | >1800 N | >3000 N | ISO 10545-4 / IS 13630-6 |
| 5 | Impact Resistance | Report value | ≥0.55 | ≥0.55 | ≥0.55 | ISO 10545-5 / IS 13630-14 |
| 6 | Crazing Resistance | Report cycle | 4 cycle | No damage | No damage | ISO 10545-11 / IS 13630-9 |
| 7 | Surface Abrasion Resistance (PEI Rating) | Report abrasion class | Class II, Min | Min PEI IV | Min PEI IV | ISO 10545-7 / IS 13630-11 |
| 8 | # Skid Resistance | | | | | |
| | a) Skid Resistance - Ramp Test | Manufacturer to declare | Manufacturer to declare | ≥R9 | ≥R9 | DIN 51130 |
| | b) Coefficient of Friction | Manufacturer to declare | Manufacturer to declare | >0.42 | >0.42 | ISO 10545 -17 / ANSI A 326.3 |
| 9 | Bulk Density, in (g/cc) | ≥2.0 | ≥2.0 | >2.2 | >2.2 | ASTM C373-16 / IS 13630-2 |
| 10 | Moisture Expansion | Manufacturer to declare | Max 0.02 mm/m | ≤0.02 mm/m | ≤0.2 mm/m | IS 13630-part 3 / ISO 10545-10 |
| 11 | Frost Resistance | Manufacturer to declare | Manufacturer to declare | No damage | No damage | ISO 10545-12 / IS 13630-10 |
| 12 | Color Resistance to UV Light | Report result | Report result | No change in color | No change in color | DIN 51094 |
| C) Chemical Properties | | | | | | |
| 1 | Resistance to Chemicals | | | | | ISO 10545-13 / IS 13630-8 |
| | 1) Resistance to Low concentrations of acids & alkalis | report resistance class | report resistance class | GLA/AA | GLA/AA | |
| | 2) Resistance to High concentrations of acids & alkalis | report resistance class | report resistance class | GHA/AA | GHA/AA | |
| | 3) Resistance to household chemicals and swimming pool salts | GB min | AA min | GB(ISO)/AA(BIS) | GB(ISO)/AA(BIS) | |
| 2 | Stain Resistance | Min Class 3 | Class 1 min | Resistant | Resistant | ISO 10545-14 / IS 13630-8 |
| D) Thermal Properties | | | | | | |
| 1 | Linear Thermal Expansion | Report value | ≤7x10 ⁻⁶ K ⁻¹ | ≤7x10 ⁻⁶ K ⁻¹ | ≤7x10 ⁻⁶ K ⁻¹ | ISO 10545-8 / IS 13630-4 |
| 2 | Thermal Shock Resistance | - | 10 Cycle , Min | No damage | No damage | ISO 10545-9 / IS 13630-5 |

Ramp Test: Suitable for all kind of surfaces (Plain, structural..etc)

Slider (BOT -3000E Digital Tribometer): Suitable for plain / smooth surface and not working for structural / profiled surface

EDC-RAJKOT

| S. No. | Test Description | ISO 13006:2018 / EN 14411 Group Bla Requirement | IS - 15622:2017 Group B1b | Johnson Endura EDC | Test Method |
|-------------------------------|--|---|--|-------------------------------------|--------------------------------|
| A) Dimension Quality | | whichever is less applicable. Rectified | Rectified | 40X40X12mm | |
| 1 | Deviation in Length & Width | ± 0.3% or ±1.0mm | ±0.1% | ±0.1% | ISO 10545-2 / IS 13630-1 |
| 2 | Deviation in Thickness | ± 5% or ± 0.5mm | ±5% | ±4% | |
| 3 | Straightness of Sides | ± 0.3% or ±0.8mm | ±0.1% | ±0.1% | |
| 4 | Rectangularity | ± 0.3% or ± 1.5mm | ±0.1% | ±0.1% | |
| 5 | Surface Flatness | ± 0.4% or ±1.8mm | ±0.5% | ±0.3% | |
| 6 | Surface Quality | Min 95% | Min 95% | Min 95% | |
| B) Physical Properties | | | | | |
| 1 | Water Absorption | ≤0.5%, individual Max 0.6% | 0.08%<E≤3, Individual 3.3 max | <0.5% | ISO 10545-3 / IS 13630-2 |
| 2 | Scratch Hardness of Surface (Moh's scale) | - | ≥5 | ≥6 | IS 13630 part 13 |
| 3 | Flexural Strength (Average MOR) | ≥35N/mm ² , Individual 32N/mm ² , Min | ≥30N/mm ² , Individual 27 min | >38N/mm ² | ISO 10545-4 / IS 13630-6 |
| 4 | Breaking Strength | ≥1300 N | ≥1100 N | >1800 N | ISO 10545-4 / IS 13630-6 |
| 5 | Impact Resistance | Report value | ≥0.55 | ≥0.55 | ISO 10545-5 / IS 13630-14 |
| 6 | Crazing Resistance | Report cycle | 4 cycle | No damage | ISO 10545-11 / IS 13630-9 |
| 7 | Surface Abrasion Resistance (PEI Rating) | Report abrasion class | Class II, Min | Min PEI III - IV | ISO 10545-7 / IS 13630-11 |
| 8 | Skid Resistance (Coefficient of Friction) | NA | Manufacturer to declare | 0.3 to 0.5 | ISO 10545 -17 / ANSI A 326.3 |
| 9 | Bulk Density, in (g/cc) | ≥2.0 | ≥2.0 | >2.2 | ASTM C373-16 / IS 13630-2 |
| 10 | Moisture Expansion | Manufacturer to declare | Max 0.02 mm/m | ≤0.02 mm/m | IS 13630-part 3 / ISO 10545-10 |
| 11 | Frost Resistance | Manufacturer to declare | Manufacturer to declare | No damage | ISO 10545-12 / IS 13630-10 |
| 12 | Color Resistance to UV Light | Report result | Report result | No change in color | DIN 51094 |
| C) Chemical Properties | | | | | |
| 1 | Resistance to Chemicals | | | | ISO 10545-13 / IS 13630-8 |
| | 1) Resistance to Low concentrations of acids & alkalies | report resistance class | report resistance class | GLA | |
| | 2) Resistance to High concentrations of acids & alkalies | report resistance class | report resistance class | GHA | |
| | 3) Resistance to household chemicals and swimming pool salts | Min B | AA min | B(ISO)/AA(BIS) | |
| 2 | Stain Resistance | Min Class 3 | Class 1 min | Class 3 (ISO)/ Class 1 (IS) | ISO 10545-14 / IS 13630-8 |
| D) Thermal Properties | | | | | |
| 1 | Linear Thermal Expansion | Report value | ≤7x10 ⁻⁶ K ⁻¹ | ≤7x10 ⁻⁶ K ⁻¹ | ISO 10545-8/ IS 13630-4 |
| 2 | Thermal Shock Resistance | - | 10 Cycle , Min | 10 Cycle, Min | ISO 10545-9/ IS 13630-5 |

Ramp Test: Suitable for all kind of surfaces (Plain, structural..etc)

Slider (BOT -3000E Digital Tribometer): Suitable for plain / smooth surface and not working for structural / profiled surface

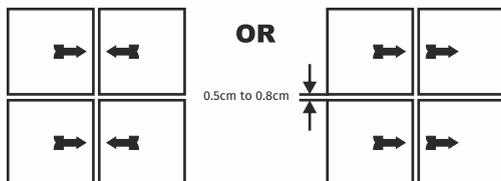
TECHNICAL SPECIFICATION PACKING DETAILS

| Product | Nominal Size (cm) | No. of Tiles/Box | Approx Area/Box (sq.m) | Approx Weight/Box (kgs) | Approx Cartons/20' Container | Approx Area/20' Container (sq.m) | Approx Cartons/16T Truck | Approx sqm/16T Truck |
|---------------------------|-------------------|------------------|------------------------|-------------------------|------------------------------|----------------------------------|--------------------------|----------------------|
| Hi-Traffic | | | | | | | | |
| 30x30 (1cm Thk) | 30X30 | 10 | 0.9 | 19.13 | 1411 | 1270 | 836 | 929 |
| EDC | | | | | | | | |
| 40x40 (1.2cm Thk) Kunigal | 40x40 | 5 | 0.80 | 20 | 1350 | 1080 | 800 | 1000 |
| 40x40 (1.2cm Thk) Rajkot | 40x40 | 5 | 0.80 | 20 | 1350 | 1080 | 800 | 1000 |
| 30x30 (1 cm Thk) Kunigal | 30x30 | 8 | 0.72 | 14.9 | 1812 | 1305 | 1074 | 1491 |
| 30x30 (1 cm Thk) Dewas | 30x30 | 8 | 0.72 | 16 | 1687 | 1215 | 1000 | 1389 |

JOHNSON ENDURA TILE FIXING INSTRUCTIONS*

1. Before fixing the tiles, lay them out in the desired pattern and make sure that they give an acceptable blend of shade, colour & design. Also make sure that the tiles are acceptable to your satisfaction. Please note that certain amount of shade and size variation is inherent in the manufacturing of ceramic products.
2. For fixing these tiles, we recommend the use of ARDEX ENDURA tile fixing adhesives. For best results, follow the tile fixing instruction provided along with the adhesives.
3. For fixing Johnson Endura tiles on the floor using sand and cement, follow the instruction given below :
 - a) Use cement and sand mortar in the ratio of 1 : 4. Add some water to create a consistent paste.
 - b) Do not add any further water to the mix once it is completed and use the same within one hour.
 - c) Apply a 2cm to 3cm layer of bedding material over an area of 1 square meter at a time on the surface of the area. Apply a fine slurry to the back of the tile to ensure proper and full bedding. Press gently for even adherence at back of the tile.
DO NOT USE AN IRON HAMMER OR SOME HEAVY MATERIAL TO PRESS THE TILE.
4. For fixing Johnson Endura tiles on Dado, we recommend the use of ARDEX ENDURA. Please follow the manufacturer's instructions for the same. We do not recommend the use of sand and cement for fixing on Dado.
5. Mark and layout the tiles from the centre of the area to be tiled so that cut tiles if any will be on the outer edge towards the walls.
6. The nominal/ work size of the tile is as printed on the carton. It is advisable to maintain a gap of 0.5 cm to 0.8 cm between two tiles to allow for possible expansion as per ISO tolerance norms. This would give the coverage area as mentioned in the grouts.
7. Complete the tiles laying process by pressing the cut Johnson Endura tiles firmly into place along the wall / floors.
8. Allow 3 to 4 days for bed curing. After this period, fill the joints with cementitious or epoxy grouts from ARDEX ENDURA .
9. Fifteen minutes after finishing the grouting process, wipe off excess grout with a damp sponge and polish the tiles with a soft and dry cloth for a clean surface. The tiles can also be cleaned with a mild acid (However Hydrofluoric acid and its derivatives should not be used). You can also use tile & stone cleaners from ARDEX ENDURA.
10. Please note that the company does not accept any liability in case of problems arising out of non - adherence to these fixing instructions.
11. It is ideal to provide 0.5 cm to 0.8 cm gap between tiles with the help of spacers.
12. Kindly look for an arrow (➡) on the back of the tile and follow the laying pattern as shown below.
13. THE COMPANY WILL BEAR NO RESPONSIBILITY AFTER THE TILES ARE FIXED.

NOTHING IN THESE INSTRUCTIONS IS A SUBSTITUTE FOR GOOD WORKMANSHIP AND SUPERVISION.



* Specific tile fixing instructions related to industrial tiles, swimming pool tiles, pavers, anti-static & special purpose acid/alkali/chemical resistance tiles, please visit the website www.enduratile.com & contact company representative directly.