Metal Sense

Concrete Collection

PORCELAIN TILES

Metal Sense - Grey Metal

Metal Sense

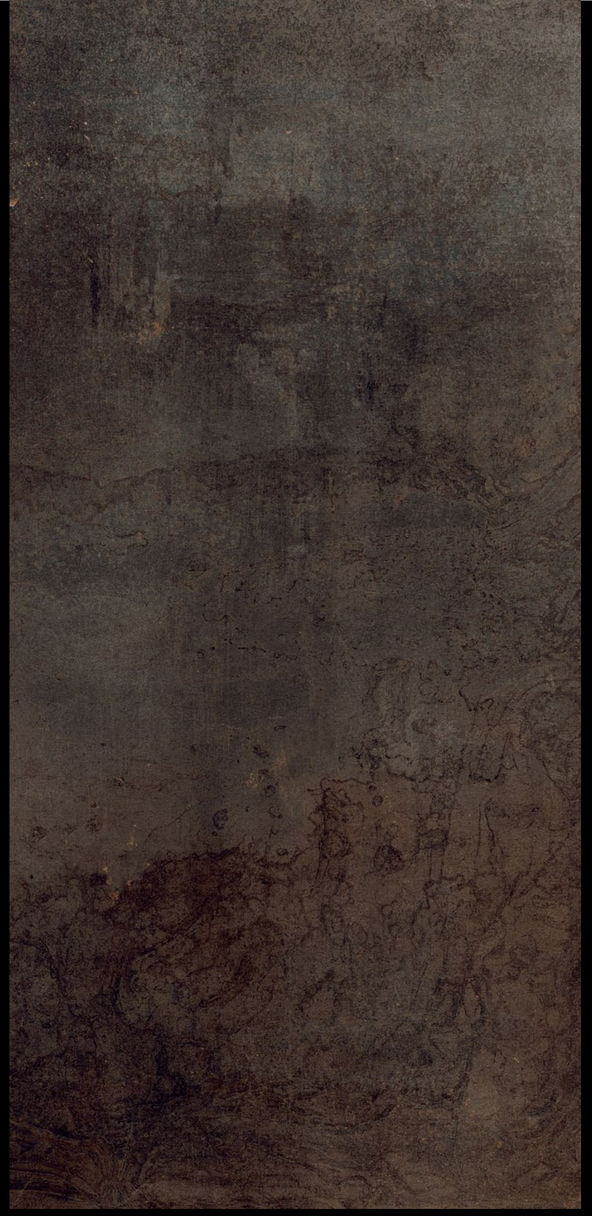
Concrete Collection

Metal Sense celebrates the dramatic effects and contrasting colours created during the ageing process of raw metal. With a bold and arresting appearance, Metal Sense is perfect for urban and industrial settings and is suitable for indoor and outdoor applications. Available in four aged colours and four rectified sizes up to 1000 x 1000 mm, Metal Sense is the perfect range to complete that industrial project.

4 COLOURS | 4 SIZES | 1 FINISH

Metal Sense

Black Metal (floor)



Metal Sense

Brown Metal

Metal Sense

Grey Metal

Metal Sense

White Metal

Colours

Black Metal

Brown Metal

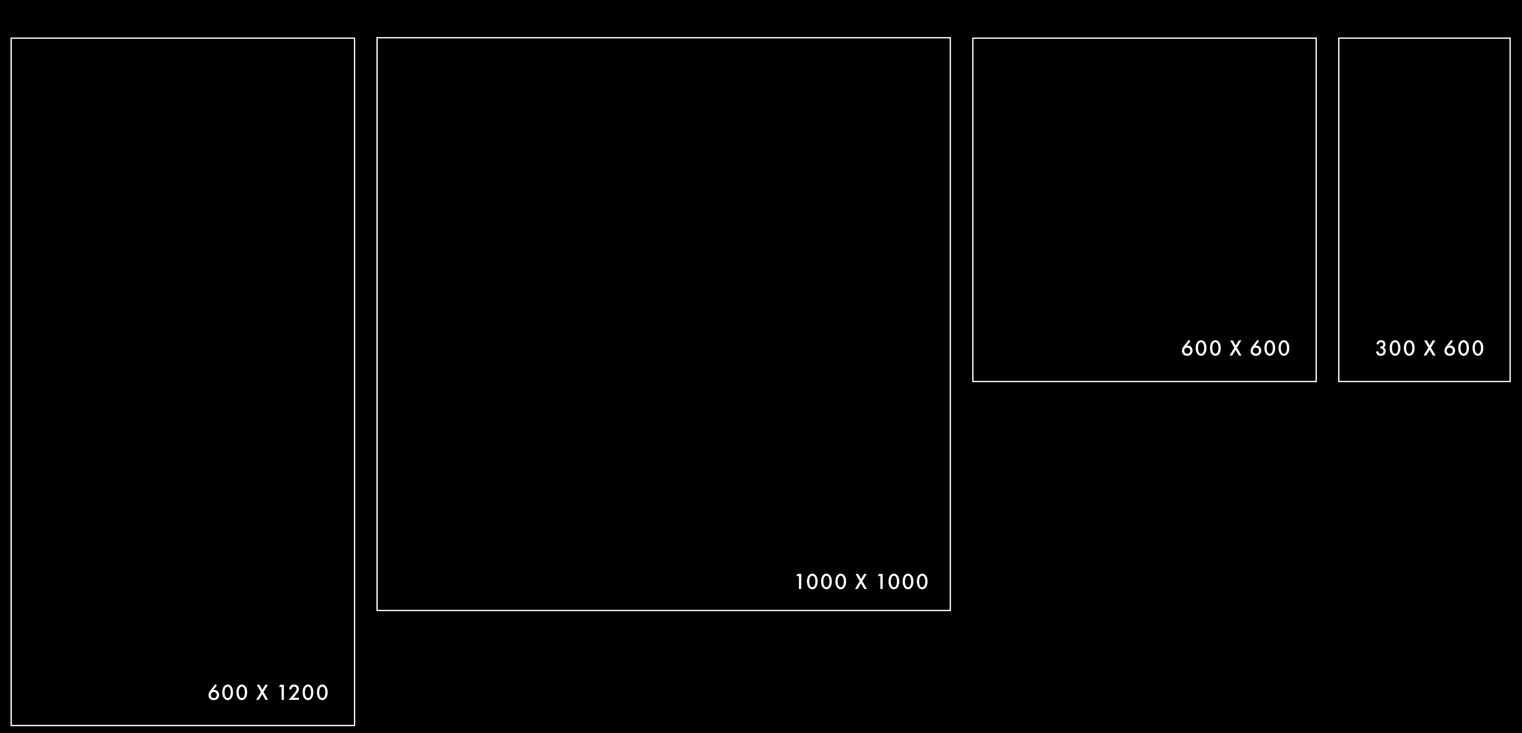
Grey Metal

White Metal

Colours

COLOUR	FINISH	SIZE(MM)
Black Metal | Brown Metal | Grey Metal | White Metal	Natural	600 X 1200 X 6
Black Metal | Brown Metal | Grey Metal | White Metal	Natural	1000 X 1000 X 6
Black Metal | Brown Metal | Grey Metal | White Metal	Natural	600 X 600 X 6
Black Metal | Brown Metal | Grey Metal | White Metal	Natural	300 X 600 X 6

Size Guide (mm)



Special Pieces

COLOUR	FINISH	SIZE(MM)	DETAIL
Black Metal | Brown Metal | Grey Metal | White Metal	Natural	300 X 1200 X 6	Step Tile
Black Metal | Brown Metal | Grey Metal | White Metal	Natural	65 X 1000 X 6	Skirting Tile
Black Metal | Brown Metal | Grey Metal | White Metal	Natural	70 X 600 X 6	Skirting Tile
Black Metal | Brown Metal | Grey Metal | White Metal	Natural	300 X 300 X 6	Mosaic (72x72mm)

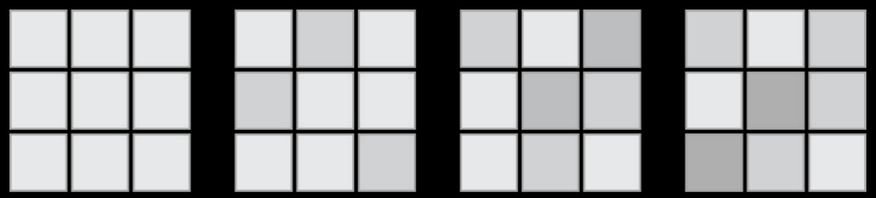
Technical Details

PHYSICAL PROPERTIES	STANDARD OF TEST	REQUIRED VALUE	MANUFACTURERS MEAN VALUES
Length and width	EN ISO 10545-2	± 0.6% MAX	± 0.2% MAX
Thickness	EN ISO 10545-2	± 5.0% MAX	± 5.0% MAX
Linearity	EN ISO 10545-2	± 0.5% MAX	± 0.2% MAX
Wedging	EN ISO 10545-2	± 0.6% MAX	± 0.2% MAX
Warpage	EN ISO 10545-2	± 0.5% MAX	± 0.2% MAX
Water absorption	EN ISO 10545-3	≤ 0.5%	< 0.05%
Flexion resistance	EN ISO 10545-4	≥ 35 N/mm^2	> 42 N/mm^2
Resistance to deep abrasion	EN ISO 10545-6	≤ 175 N/mm^3	140 mm^3
Thermal expansion coefficient	EN ISO 10545-8	Testing method available	Available on request
Thermal shock resistance	EN ISO 10545-9	Testing method available	Resistant
Frost resistance	EN ISO 10545-12	No sample must show alterations to surface	Frost resistance
Chemical resistance	EN ISO 10545-13	No sample must show visible signs of chemical attack (acids-bases-additives for pools) except for products containing Hydrofluoric Acid and derivatives	Unaffected
Stain resistance	EN ISO 10545-14	Unglazed tiles: testing method available	Class 5
Slip resistance	DIN 51130	-	R9 Natural

FOR SPECIFIC CERTIFICATES, WE CAN PROVIDE THEM ON REQUEST

Shade Tone Variance

Shade, texture and tone can vary from piece to piece within a single tile production run. V1 shade tone variation has little or no change from piece to piece where a V4 might have a substantial variety of shade, texture and tone variation.



V1 V2 V3 V4

VARIANCE RATING	DESCRIPTION
V1	Uniform Appearance
V2	Slight Variation
V3	Moderate Variation
V4	Substantial Variation

COLOUR	VARIANCE
Black Metal	V3
Brown Metal	V3
Grey Metal	V3
White Metal	V3

Ramp Test Values (DIN 51130)

DIN Standard Ramp Testing (DIN 51130) is an alternative to Pendulum Testing and generally categorised as an 'off-site' activity because of the size and complexity of the equipment required to carry out the test. The Slip Resistance Values (RSV) are factory gate values (based on supplied tiles) and categorised using the Ramp Test (DIN 51130) method which is commonly used by European factories. In this method, a lubricated inclined platform is adjusted to a gradually increasing gradient, and the angle is measured at which a person walking on it slips.

R RATING VALUE	FRICTION
R9	Minimal
R10	Normal
R11	Good
R12	Good
R13	Very High

COLOUR	FINISH/STYLE	R RATING VALUE	FRICTION
Black Metal	Natural	R9	Minimal
Brown Metal	Natural	R9	Minimal
Grey Metal	Natural	R9	Minimal
White Metal	Natural	R9	Minimal

Metal Sense - White Metal, Black Metal, Brown Metal

Environmental Certification

LEED® certification provides independent, third party verification that a building project meets the highest green building and performance measure. All certified projects receive a LEED® plaque, which is nationally recognised symbol demonstrating that a building us environmentally responsible, profitable and a healthy place to live and work. The environmental characteristics have been evaluated and found according to the requirements of content of recycled material for environmental assessment according to LEED® criteria. These products contribute to the increase in the LEED® rating of buildings where they are used.

The EU Ecolabel helps you identify products and services that have a reduced environmental impact throughout their life cycle, from the extraction of raw material through to production, use and disposal. Recognised throughout Europe, EU Ecolabel is a voluntary label promoting environmental excellence which can be trusted. Ecolabel certification applies to building products such as ceramic tiles for residential and public flooring and wall- covering. The commission in charge of the certification system measures the environmental impact caused by the entire productive cycle; in the case of ceramic tiles, the verification starts from raw material quarrying through to manufacturing, distribution, installation and their final disposal. Our factories conform and are certified by the European Community standard Ecolabel and the production process is in complete harmony with the Ecolabel certification.

GREENGUARD Certification ensures that a product meets stringent standards for minimal emissions of volatile organic compounds (VOCs) into indoor air. This program provides assurance that products designed for indoor use adhere to strict chemical emissions limits, fostering the creation of healthier interiors. Manufacturers with GREENGUARD Certification gain credibility for their sustainability claims, supported by empirical technical data from an unbiased third-party organisation. The GREENGUARD Certification Program instills confidence by ensuring that indoor products meet strict chemical emissions limits, contributing to the creation of healthier interior spaces. This empowers manufacturers to produce and customers to identify products with low chemical emissions, thereby supporting air quality and environmental well-being.

NSF® has facilitated the development of more than 75 standards and protocols for sanitary food equipment, and has certified thousands of products as safe to use in restaurant and commercial kitchen settings. NSF® food equipment standards include requirements for material safety, design, construction and product performance. The products conform to the requirements of NSF/ANSI Standard 51 – Food Equipment Materials. NSF/ANSI 51 establishes minimum public health and sanitation requirements for materials and finishes used in the manufacture of commercial foodservice equipment

An Environmental Product Declaration (EPD) is a concise document that transparently communicates the environmental performance of a product throughout its life cycle. It provides comprehensive information about the product's environmental impact, including aspects such as raw material extraction, production processes, energy consumption, and emissions. EPDs are based on standardised methodologies and enable consumers, businesses, and policymakers to make informed decisions by considering the environmental aspects of a product in a systematic and comparable way.

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