

NEOTRATM
ADVANCED SURFACES

PASTELLI





THE POWER OF COLOUR, IN LARGE SLABS.

Neotra Advanced Surfaces brings
the power of colour, in its purest expression, to the
latest generation
of large slabs.

The range of **Pastelli** was created
to offer designers and architects a tool of great
aesthetic versatility and absolute technical reliability.

Every architect or designer has a childhood memory that's close to their hearts - in Italy known as '**pastelli**' or the case of **coloured pencils**.

Their very first **contact with creativity**, '**pastelli**' that empowered them to draw, scribble and express in vivid colours.



ALL AROUND COLOURS

PASTELLI



A close-up, high-angle shot of a modern kitchen sink. The sink is made of a dark, highly reflective material, possibly stainless steel or a composite, which shows clear reflections of the surrounding environment. A sleek, chrome faucet with a curved spout and a cylindrical handle is mounted on the right side of the sink. The sink is set into a dark wooden countertop. The lighting is dramatic, creating strong highlights and shadows that emphasize the smooth, polished texture of the sink surface.

ADVANCED SURFACES

NEOTRA™

ADVANCED SURFACES

An innovative material in large slabs, **specifically developed for worktops, tables, furniture and exterior facades.**

Neotra is composed solely of **natural minerals** without resins or chemical binders. Absolutely does not emit silica particles.

As in the genesis of natural stones, a process of **grinding, strongest pressure, and extreme heat firing** (around 1200 °C) generates a new **sintered material.**

Extraordinary performances.

Cutting-edge production plants, with best Italian technologies and machinery make Neotra slabs **exceptionally compact, durable and non-absorbent.** They are fireproof and resist to acids and detergents. The surface is hygienic, easy to maintain and does not discolour over time and require any treatment.

Style and aesthetic.

Design and aesthetics exceed the world's best benchmark and merge superb elegance with **the highest definition details.** The ultra-high resolution **digital decoration multiple process** allows any aesthetic look, with an absolute degree of realism.

Slabs' workability and performance are enhanced by an **exclusive mix of raw materials,** based on wide know-how of our major international ceramic group.

Body colour meets surface.

Depending on the different collections, Neotra creates the body of the slabs in order to have aesthetic and colour continuity with the surface, optimising the result of worktops and tables that have visible edge workings.

Chosen by
designers,
for designers.

The range of **12 pure** and sophisticated **hues** was chosen in collaboration with architects and interior designers, with a focus on the evolution and trends in international lifestyle.



12 design colours



Maxi-formats in three thicknesses.

Large slabs up to
160x320 cm:
state-of-the-art
technologies for
outstanding performance.

160x160 cm

63"x63"

12 mm

3 sizes

120x300 cm

47"x118"

5.5 mm

supplied with fibre
glass mesh applied
on backside

160x320 cm

63"x126"

12 mm

20 mm

Top solutions for every application.

Thanks to the three thicknesses of **5.5, 12 & 20 mm**, Pastelli offers the **ideal solution for any application**: kitchen countertops, bathroom tops, furniture elements, interior floors, wall coverings, and exterior facade coverings.

The homogeneous colour throughout the thickness allows all kinds of edge finishing with perfect aesthetics.

3 thicknesses

NEO FORTE™
STRENGTH MEETS VERSATILITY

NEO-FORTE SURFACE

Solid, safe, sophisticated, and visually pleasing: Neo-Forte surface combines design and performance, with an outstanding surface hardness of 8+ in moh scale.

Neo-Forte surface's **superior resistance to abrasion** is demonstrated by ISO testing: zero mass loss after 120,000 revolutions, **10 times the required value** (12,000 revolutions).



DAILY USE WITHOUT PROBLEMS

Total freedom in food processing,
chopping or dressing directly on
countertop.

— SCRATCH RESISTANT
Mohs 8+

— HEAT RESISTANT
Fired at +1200°C

— STAIN RESISTANT
Water absorption near zero



MAXIMUM HYGIENE, MAXIMUM PROTECTION

- SUITABLE FOR FOOD CONTACT
**Easy to clean,
Non-absorbent,
Resistant to detergent,
And cleaning agents**



NSF International certification

More than ever, it is an absolute priority to maintain the spaces where one cooks and lives in utmost cleanliness and hygiene.

- THE SAFEST
**No particles, formaldehyde,
harmful chemicals.**
- NON POROUS
**Does not harbour dirt
and bacteria.**

NEO SCUDO TECH™
PROTECTIVE HYGIENIC SURFACES

Antibacterial, antiviral, antifungal, antialgae.

It helps the surface repel any liquid. Unwanted and harmful living organisms cannot remain or grow on surfaces, which can be kept safe and clean with minimal effort.

ENDURING BEAUTY

Neotra surfaces will always look and perform as good as on day one, insensitive to weather, footsteps and heavy use.

- PERMANENT COLOURS
ENDURING SURFACE FOR INTERIOR/EXTERIOR
USE THAT IS **UV and Frost resistant.**
- UNAFFECTED BY FOOT TRAFFIC
EVEN IN CROWDED ENVIRONMENTS
10x ISO testing value (120.000vs 12.000).
- RESISTANT TO CHEMICALS
Acids, alkalis, solvents and smog.
- UNAFFECTED BY MOULDS AND FUNGUS
Impermeable and non-absorbent surface.



A hand is holding a white folding ruler against a dark blue background. The ruler is extended diagonally from the top left towards the bottom right. The ruler has black markings and numbers, including 3, 4, 5, 6, 7, and 8. The hand is positioned at the top left, and another hand is visible at the bottom right, holding the end of the ruler.

ALSO PROJECT FRIENDLY

Largest slabs in 3 thicknesses,
for all furniture and construction
requirements, both residential
and commercial.

BEST SOLUTION FOR EVERY REQUIREMENT
3 different thicknesses + large sizes.

HIGH-END DETAILS AND FINISHES
Thanks to full body colour.

EASY TO CUT AND MOULD
Compact, homogeneous, reliable.

EFFICIENT LOGISTICS
AND INDUSTRIAL CAPACITY
Large and experienced organization.

NEO FORTE™
STRENGTH MEETS VERSATILITY

SRI (Solar Reflective Index) 90+.
**An excellent choice for facade cladding
and external applications.**

Better ambient conditions inside the building
during hot months.

Less energy is required for air-conditioning.

SUSTAINABLE TANGIBILITY

World-leading sustainable
production lines, factory close to
product use sites, environmental
care at every level.

HIGHLY SUSTAINABLE PRODUCTION CYCLE
State-of-the art technologies.

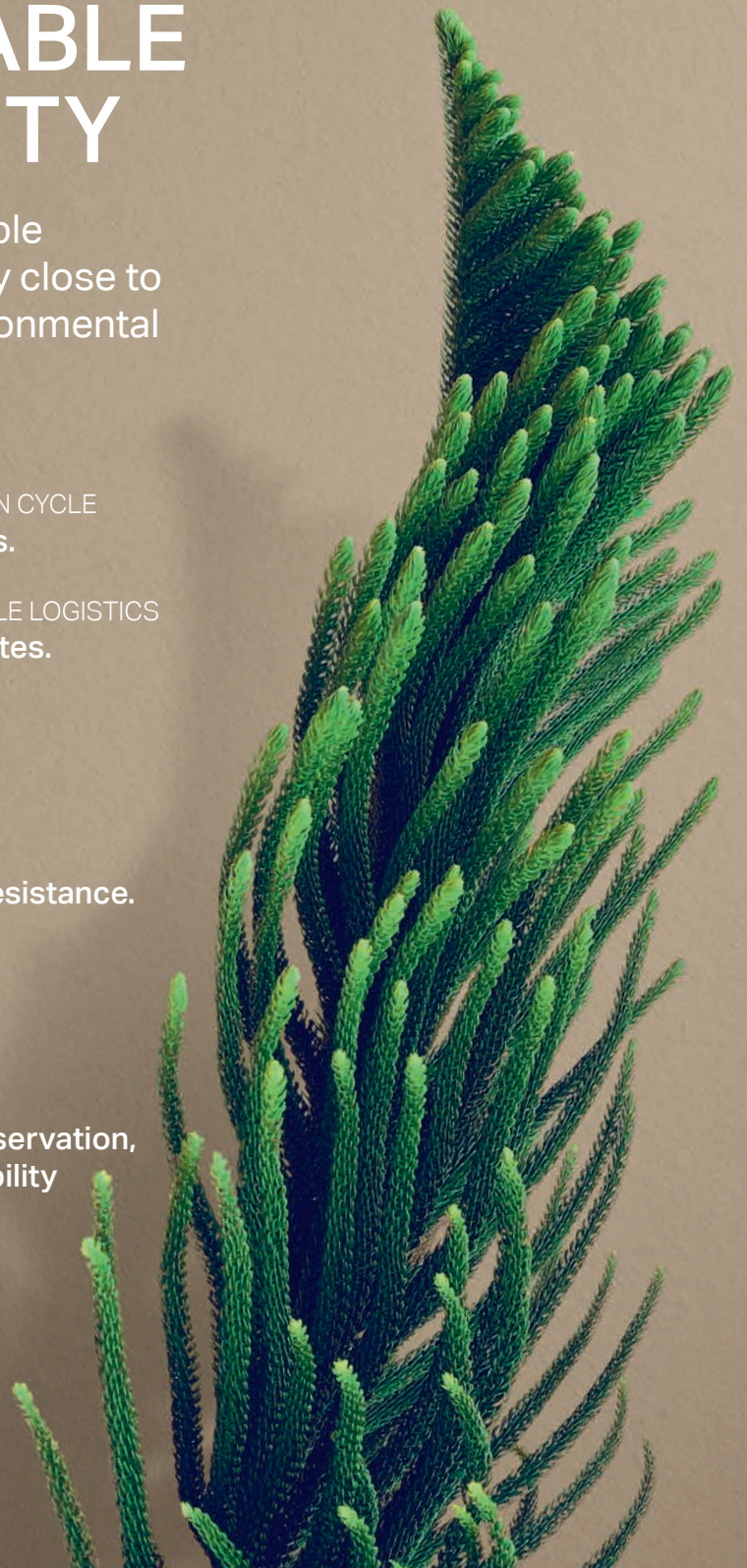
COST-EFFECTIVE AND SUSTAINABLE LOGISTICS
Plants close to destination sites.

MINIMAL PROCESSING WASTE
Efficient production cycle.

PRODUCT DURABILITY
PRACTICALLY INFINITE
Inalterable and wear & tear resistance.

FULLY RECYCLABLE
**Homogeneous and
totally inert material.**

IGBC CERTIFIED
**Energy efficiency, water conservation,
and environmental responsibility
buildings.**

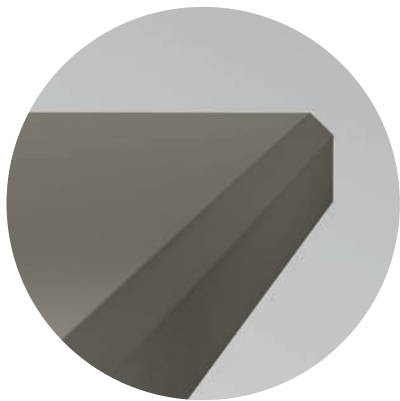


PASTELLI

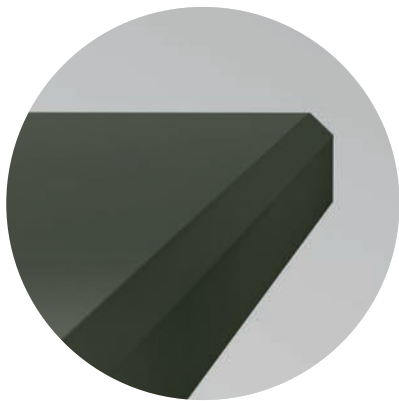
Colour
Palette

Perla

Bosco



•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"



•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"

Azzurro



•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"

Arancio



•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"

Oliva

Grafite



•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"

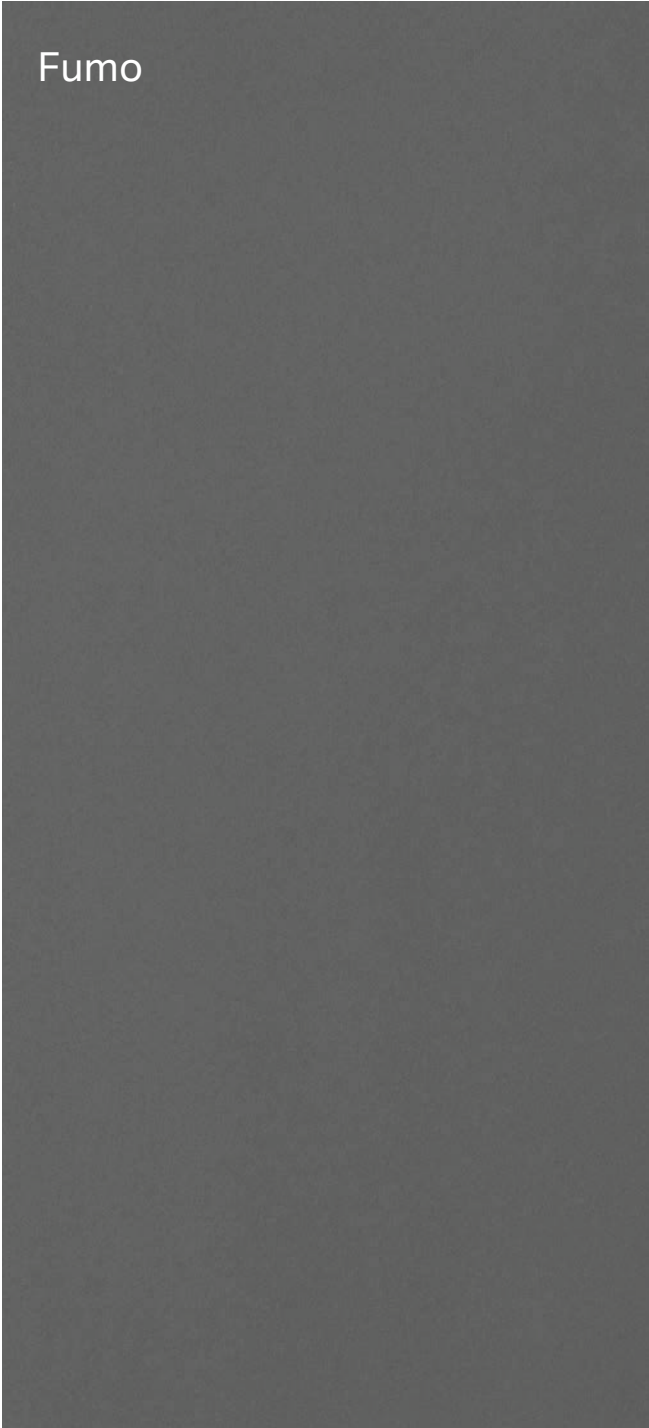
•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"

Carbone



•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"

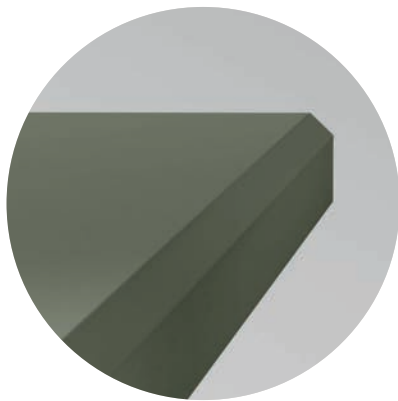
Fumo



•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"

Menta

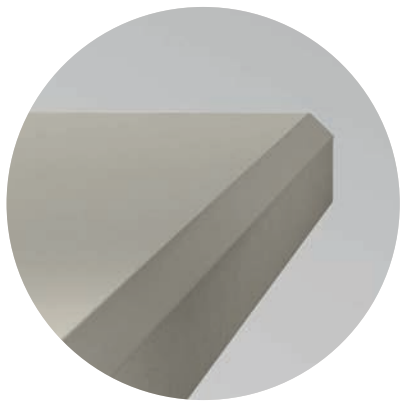
Salvia



•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"

•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"

Gesso



•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"

Fango



•	12 mm	1600x1600 mm	63"x63"
•	5.5 mm	1200x3000 mm	47"x118"
•	12 mm	1600x3200 mm	63"x126"
•	20 mm	1600x3200 mm	63"x126"

Applications Gallery

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Gesso
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Fango
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Gesso . Perla

Top	Backsplash	Floor	Wall . Top
160x320cm	120x300cm	160x320cm	SPA Silver
63"x126"	47"x118"	63"x126"	145x320cm
12mm	5.5mm	12mm	57"x126"
			20mm





Gesso



Pastelli . **Gesso**
Top
160x320cm
63"x126"
12mm

SPA Silver
Top
145x320cm
57"x126"
20mm



Purest,
flawless
design

Top-notch finishes and refined details are enhanced by the clear, bright colour of the slabs, which are non-staining and non-absorbent.

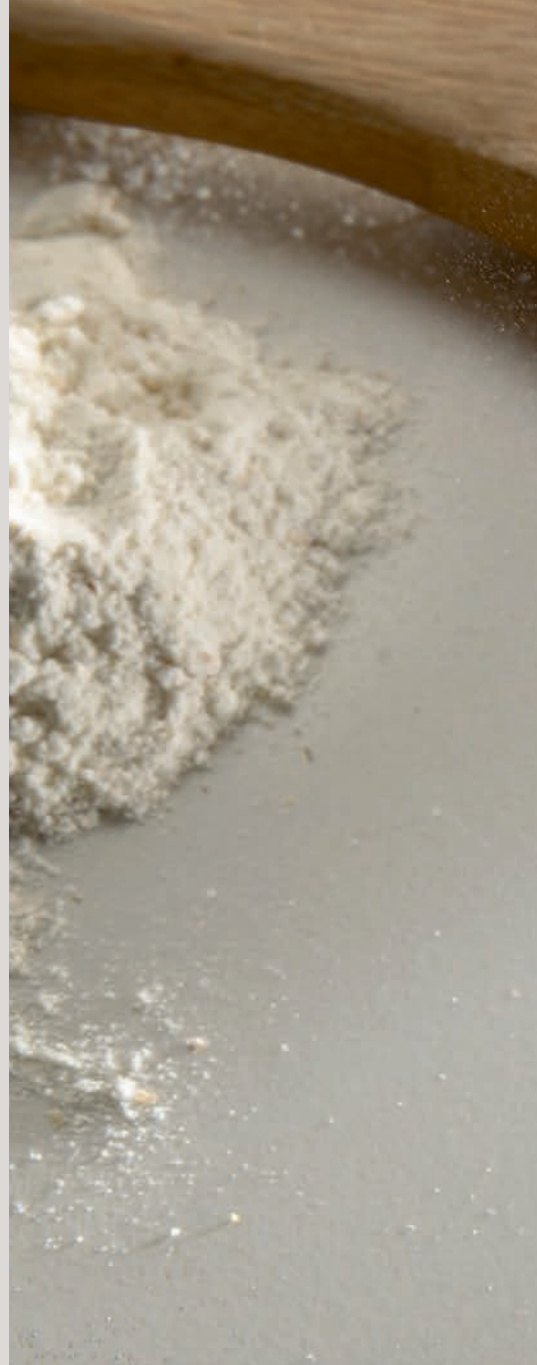
Pastelli . **Gesso**
Sink
160x320cm
63"x126"
12mm

Pastelli . **Gesso**
Backsplash
120x300cm
47"x118"
5.5mm



Gesso

Pastelli . **Gesso**
160x320cm
63"x126"
12mm



Heat resistance

Hot vessels and utensils can be safely placed on the surface. The burners can be integrated into the kitchen countertop, with an exclusive and elegant design.



Pastelli . **Gesso**
Top
160x320cm
63"x126"
12mm

NEO SCUDO TECH™
PROTECTIVE HYGIENIC SURFACES

Safe, Hygienic and Durable

On the Pastelli kitchen countertop, food can be prepared with maximum hygiene and safety.

Fumo . Grafite . Azzurro

Floor
160x320cm
63"x126"
12mm

Top
160x320cm
63"x126"
20mm

Furniture
120x300cm
47"x118"
5.5mm

Wall
120x300cm
47"x118"
5.5mm





Fumo . Grafite . Azzurro



Versatility and trendy colours

Pastelli . **Fumo**
Floor
160x320cm
63"x126"
12mm

Pastelli . **Grafite**
Top
160x320cm
63"x126"
20mm

Pastelli . **Grafite**
Wall
120x300cm
47"x118"
5.5mm

Pastelli . **Azzurro**
Furniture
120x300cm
47"x118"
5.5mm



Pastelli . **Grafite**
Top
160x320cm
63"x126"
20mm

Pastelli . **Azzurro**
Furniture
120x300cm
47"x118"
5.5mm



Fumo . Grafite . Azzurro

Pastelli . **Fumo**
Floor
160x320cm
63"x126"
20mm



NEO FORTE™
STRENGTH MEETS VERSATILITY

- SLIP RESISTANCE VALUE
R9
- EXTRAORDINARY ABRASION RESISTANCE
10X higher than ISO recommend value



Pastelli . **Fumo**
Floor
160x320cm
63"x126"
12mm

Pastelli . **Grafite**
Top
160x320cm
63"x126"
20mm

Pastelli . **Grafite**
Wall
120x300cm
47"x118"
5.5mm

Pastelli . **Azzurro**
Furniture
120x300cm
47"x118"
5.5mm

Aesthetically coordinated look

Thanks to its 3 thicknesses, Pastelli covers all elements of the bathroom: floor, wall, vanity top and cabinet. The 12 shades, with neutral tones and colour accents, allow endless creative combinations.

Fumo



Ideal for Facade Cladding and External Application

Highly durable, unaffected by smog, sun and weather changes. The Remarkable Solar Reflection Index (**SRI**) **90+** Improves thermal insulation and **reduces energy** consumption for air-conditioning.

Pastelli . Fumo
Wall
160x320cm
63"x126"
12mm



Fumo . Perla

Wall
160x320cm
63"x126"
12mm

Floor indoor
160x320cm
63"x126"
12mm

Floor outdoor
160x320cm
63"x126"
20mm

160x160cm
63"x63"
12mm





Fumo . Perla

Pastelli . **Perla**
Floor outdoor
160x320cm
63"x126"
20mm



Project-specific solutions

Pastelli offers the ideal thickness and format for any kind of facade fixing. Perfect co-ordination and colour combinations with floors and interior furnishings.

NEO FORTE™
STRENGTH MEETS VERSATILITY

SOLAR REFLECTIVE INDEX (SRI)
90+

SLIP RESISTANCE
R9

Wall	Pastelli . Fumo
160x320cm	Wall
63"x126"	160x160cm
12mm	63"x63"
	12mm



Grafite . Arancio . Fango



Highest elegance meets functionality

Sink, kitchen top and chopping board are made of a single material. Perfect finishes and the highest level of aesthetics are combined with maximum functionality.



Pastelli . **Grafite**
Backsplash
160x320cm
63"x126"
12mm

Countertop
160x320cm
63"x126"
20mm

Grafite . Arancio . Fango

Backsplash
Wall
160x320cm
63"x126"
12mm

Wall
160x320cm
63"x126"
12mm

Floor
160x320cm
63"x126"
12mm

Furniture
120x300cm
47"x118"
5.5mm

Table
Countertop
160x320cm
63"x126"
20mm





Grafite . Arancio . Fango

Pastelli . Grafite	Pastelli . Arancio	Pastelli . Fango
Table	Wall	Floor
160x320cm	160x320cm	160x320cm
63"x126"	63"x126"	63"x126"
20mm	12mm	12mm



An exclusive surface finish

The Neo-Forte Surface has a modern and distinctive matt appearance, that does not attract dust or smudge marks.



Pastelli . **Grafite**
Backsplash
160x320cm
63"x126"
12mm

Pastelli . **Fango**
Floor
160x320cm
63"x126"
12mm



NEO FORTE™
STRENGTH MEETS VERSATILITY

SURFACE EXTREME HARDNESS
Mohs 8+

Menta . Oliva . Gesso



High-end furniture details

Table, shelves and drawers: the 20mm and 12mm thickness, thanks to homogenous colouring, ensure edges with a high design finish in every piece of furniture.

Pastelli . **Gesso**
Top
160x320cm
63"x126"
12mm





Pastelli . **Oliva**
Floor
160x160cm
63"x63"
12mm

Pastelli . **Menta**
Table
160x320cm
63"x126"
20mm

Menta . Oliva

Shelves background	Floor
160x320cm	160x160cm
63"x126"	63"x63"
12mm	12mm
Table	Furniture . Shelves
160x320cm	120x300cm
63"x126"	47"x118"
20mm	5.5mm





Menta . Oliva



Inspiring interior design

These refined solid colour slabs, available in trendy shades, provide coordinated options for modern interior design enthusiasts, enhancing the aesthetic appeal and cohesion of any space.

Pastelli . **Menta**
Wall
120x300cm
47"x118"
5.5mm

Pastelli . **Oliva**
Furniture . Shelves
160x320cm
63"x126"
12mm



Fango . Salvia



Stylish colours,
all-round surfaces



Pastelli . Fango
Countertops
160x320cm
63"x126"
20mm

Pastelli . Salvia
Furniture
120x300cm
47"x118"
5.5mm

SPA Barley
Floor
145x320cm
57"x126"
20mm

Fango . Salvia

Countertops
160x320cm
63"x126"
20mm

Furniture
120x300cm
47"x118"
5.5mm

Floor
SPA Barley
145x320cm
57"x126"
20mm

Backsplash
120x300cm
47"x118"
5.5mm





Fango . Salvia



Pastelli . **Fango**
160x320cm
63"x126"
20mm

Scratch resistant, easy to maintain

In everyday life, Pastelli offers a perfect blend of practicality and cleanliness. Its scratch and stain-resistant features ensure durability, while the low-maintenance aspect makes it easy to keep clean.

NEO SCUDO TECH™
PROTECTIVE HYGIENIC SURFACES

ANTIBACTERIAL - ANTIVIRAL - ANTIFUNGAL - ANTIALGAE

NEO FORTE™
STRENGTH MEETS VERSATILITY

SURFACE EXTREME HARDNESS
Mohs 8+

Pastelli . **Fango**
Countertops
160x320cm
63"x126"
20mm

Pastelli . **Salvia**
Furniture
120x300cm
57"x126"
5.5mm

SPA Barley
Floor
145x320cm
57"x126"
20mm



	CHARACTERISTIC	METHOD OF TESTING	UNITS	STANDARD AS PER ISO13006:2018 / EN14411 Gr.BIa	PASTELLI
REGULATORY PROPERTIES	Deviation in Length and Width*	ISO 10545-2	mm	±0.30 % (±1.00 mm)	±1.0 mm (±0.20 %)
	Deviation in Thickness*	ISO 10545-2	mm	±5.0 % (± 0.50 mm)	±0.5 mm (±5.0 %)
	Straightness in Side*	ISO 10545-2	mm	±0.30 % (± 0.80 mm)	±0.8 mm(±0.20 %)
	Rectangularity*	ISO 10545-2	mm	±0.30 % (±1.50 mm)	±1.2 mm(±0.20 %)
	Surface Flatness Central Curvature*	ISO 10545-2	mm	±0.40 % (± 1.80 mm)	±1.8 mm(±0.20 %)
	Surface Flatness Edge Curvature*	ISO 10545-2	mm	±0.40 % (± 1.80 mm)	±1.8 mm(±0.20 %)
	Surface Flatness Warpage*	ISO 10545-2	mm	±0.40 % (± 1.80 mm)	±1.8 mm(±0.20 %)
	Surface Quality	ISO 10545-2	%	>95% defects free	>95% defects free
	Small Colour Difference (For Plain Colour)	ISO 10545-16	ΔE	ΔE <1.00	ΔE <0.80
STRUCTURAL PROPERTIES	Water Absorption	ISO 10545-3	%	≤0.50 %	≤0.080 %
	Bulk Density	ISO 10545-3	gm/cc	As per Manufacturer	> 2.28 gm/cc
MASSIVE MECHANICAL PROPERTIES	Modulus of Rupture	ISO 10545-4	N/mm ²	Min. 35.0 N/mm ²	Min. 45.0 N/mm ²
	Breaking Strength Thickness <7.5 mm (5.5 mm)	ISO 10545-4	N	Min 70.0 N	Min 100.0 N
	Breaking Strength Thickness >7.5 mm (12 mm)	ISO 10545-4	N	Min 1300.0 N	Min 2500.0 N
	Breaking Strength Thickness >7.5 mm (20 mm)	ISO 10545-4	N	Min 1300.0 N	Min 7500.0 N
SURFACE MECHANICAL PROPERTIES	MOH'S Hardness	BS EN 15771	Number	As per Manufacturer	Min 8
	Surface Abrasion Resistance	ISO 10545-7	Class	As per Manufacturer	PEI-V+**
	Deep Abrasion	ISO 10545-6	mm ³	<175 mm ³	<105 mm ³
THERMAL HYGROMETRIC PROPERTIES	Moisture Expansion	ISO 10545-10	mm/m	Max 0.06% (0.6 mm/m)	Max 0.02 mm/m
	Thermal Expansion(COE) at 100°C	ISO 10545-8	°C ⁻¹	As per Manufacturer	Max. 6.0 x 10 ⁻⁶
	Thermal Shock Resistance	ISO 10545-9	Cycles	Min 10 Cycle	Min 10 Cycle
	Impact Resistance(COR) #	ISO 10545-5	o - 1 value	Min. 0.55	Min 0.70
	Frost Resistance	ISO 10545-12	Cycles	As per Manufacturer	Frost Proof
CHEMICAL PROPERTIES	Resistance to Staining	ISO 10545-14	class	Min. Class 3	Min. Class 5
	Resistance to Household Chemicals & Swimming Pool Salts	ISO 10545-13	class	Min Class GB	Min Class UB
	Resistance to Low Concentrate Acid and Alkalies	ISO-10545-13	class	As per Manufacturer	Min Class ULB***
	Resistance to High Concentrate Acid and Alkalies	ISO-10545-13	class	As per Manufacturer	Min Class UHB***
SAFETY PROPERTIES	Skid Resistance -(DCOF-WET PENDULUM)	ASTM E-303	DCOF	As per Manufacturer	0.20 - 0.40 (P1)
	Slip Resistance -(DCOF- R Value)	DIN 51130	R value	As per Manufacturer	NC^
	Lead and Cadmium release (lead Concentration)	ISO-10545-15	mg/dm ²	As per Manufacturer	Does not yield
	Lead and Cadmium release (Cadmium Concentration)	ISO-10545-15	mg/dm ²	As per Manufacturer	Does not yield
* Whichever is less is applicable for Rectified Size N>=15 CM					
*** Except Hydrofluoric Acid & it's compound					
**PEI-V+ 10x (1,20,000 Revolution)					
#Sample size 80x80 cm					
^Does not classify					
Note: Length and width, orthogonality and straightness are not applicable for the NOT-rectified material.					

Edge types



Flat



1/4 Bevel



1/4 Radius



1/2 Bullnose



Full Bullnose



Knife



Birds Beak



45° Corner



Soft Corner

Application Areas



Kitchen Counter Top



Vanity Top



Bathtub



Wash Basin



Table Top



Window and Door Sill



Floor & Wall



Staircase



Shower Base



Dining Table



Shelves

Transporting Neotra Advanced Surfaces

When removing the Neotra Advanced Surfaces from the A-frame (Fig-A), it is necessary to do it from alternate sides for greater safety. Removing one stone from one side and the next one from the other side keeps the load symmetrical and more stable.

To move single Pastelli slab and position it on a rock or a machine that will process it to the finished stone, it is possible to use suction pad lifting equipment with several grab points supported by an overhead travelling crane (Fig-B) or a jib crane, depending on the weight of the individual slab.

The single slab can be moved overhead with cloth straps (Fig-C) or slings coated in rubber with overhead crane or with forklift truck (Fig-D). Never use chains or steel cable because these materials can damage the surface and edges. In fact, chains and steel would scratch the surfaces of stone and could leave steel residue on natural materials which would then require careful cleaning.

If handling with grippers, insert rubber grip covers to protect the slab.

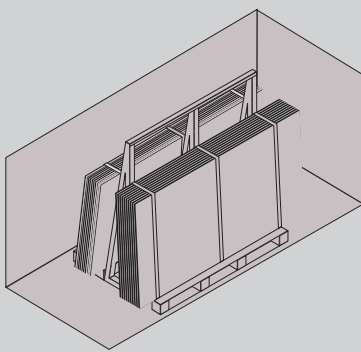


Fig-A

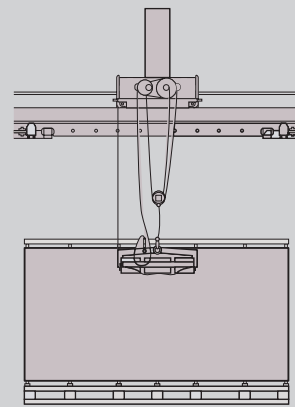


Fig-B

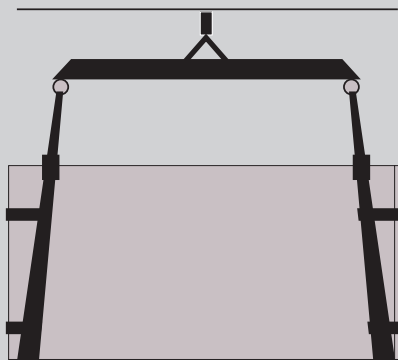


Fig-C

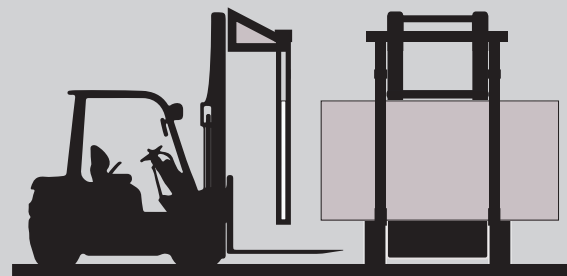
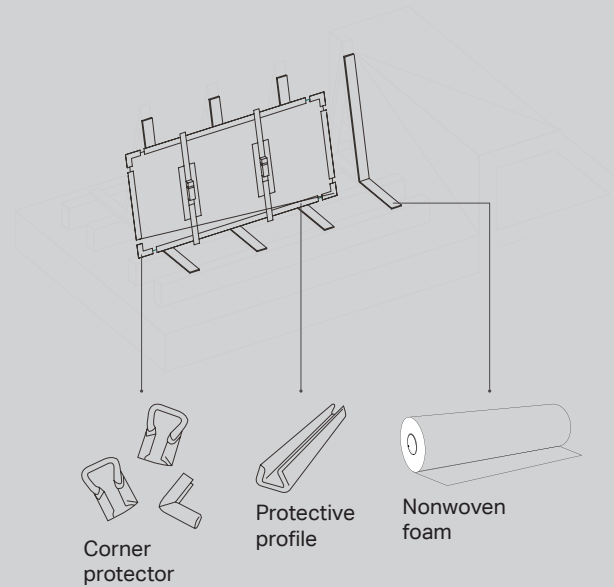


Fig-D

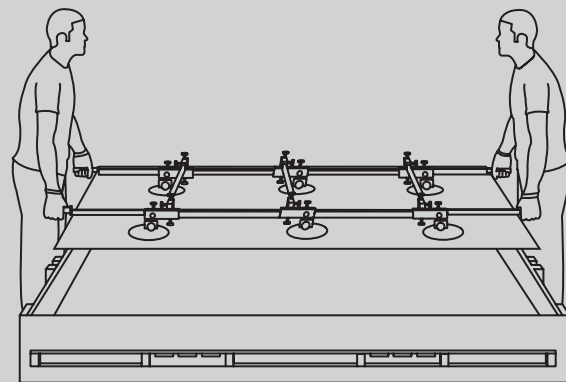
Transporting by Lorry

Place the material, with all edges and corners protected, vertically on trestles, securing them with canvas slings and protecting the ratchets. Special care must be taken with pieces with holes made in the workshop.



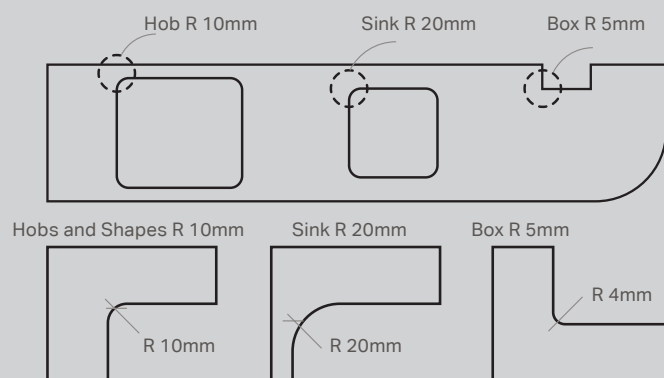
Movement with manual suction cups

For handling 12 mm slabs efficiently and securely, it is recommended to use specialized suction cup runners and frames. Two types of suction cups are available: traditional and pump-equipped. The pump-equipped suction cups are preferable as they offer a stronger grip and the ability to re-establish the vacuum using the built-in pump, even after some time. Always ensure a strong vacuum seal between the lifting device and the slabs surface for safe handling and installation.



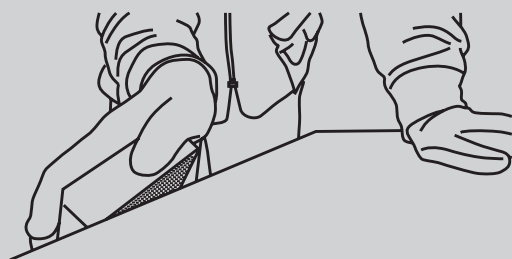
Working with the various version of Neotra Advanced Surfaces

CUTOUTS



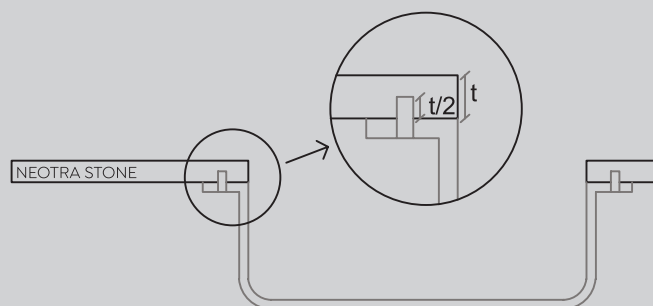
A minimum of 4mm radius is mandatory for inside corners except for L Shapes, where 10mm is required. Below are recommended examples of cut-outs for fittings such as sinks, hobs, columns, etc.

EDGES FINISHING

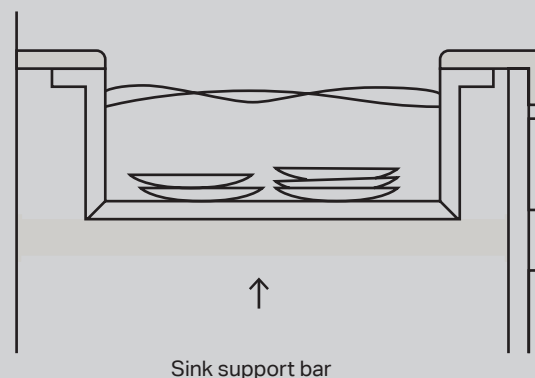


Edges can be finished by using sanding discs fitted onto hand held angle grinder. The same result can be obtained by hand using abrasive diamond sponges or emery paper. With a light passage on the side of the slab, you can obtain a slightly rounded-off edge or with repeated passages a bevelled effect.

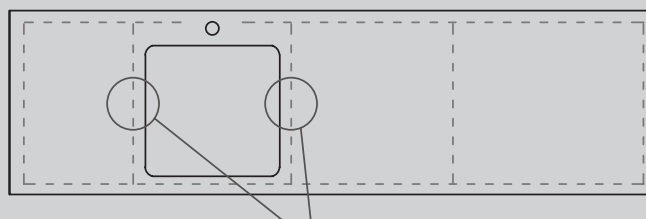
DRILLS AND SLITS



All incisions, slits or drills must pass through the material a maximum of half of the thickness.



Furthermore, for large sinks, we recommend placing support bars under the sink, so that its weight is borne by the bars and not (by) the worktop.



Assure, the countertop support on the cabinet rails surrounding the cut out.

Working with the various versions of Neotra Advanced Surfaces

CUTTING WITH DIAMOND DISCS



All products of Neotra can be cut using diamond discs fitted onto the hand-held electrical grinding machine. In this case, the SLAB will have a cleaner and better defined edge than by cutting and breaking the SLAB.

Before starting, check the following:

- The cutting table should be solid and robust.
- It must be perfectly flat and levelled (the quality is improved using a Rubber surface, to buffer the blade vibrations).
- Check that the surface that the SLAB placed on is in good condition (the piece is perfectly supported and there are no surface irregularities that affects the adhesion of the Neotra Advanced Surfaces).
- Only use standardized blades to cut Neotra Advanced Surfaces. Generally, these tools work at slow speeds and are highly cooled.
- The blade must be in good condition (the tool should be within its product life cycle and there should be no surface damage).
- The cooling process for this type of work is very important. The coolant flow must point directly at the cutting point and not indirectly. Use the maximum flow allowed by the machinery.
- If it is a special machine where the cutting process can be carried out immersed in water, this process should always be used to optimize the cooling process, to improve the surface quality and extend the life of the tool.

The recommended cutting speeds of blades for Neotra Advanced Surfaces are as follows:

- For 5.5 mm NEOTRA ADVANCED SURFACES: 1 m/min - 1.5 m/min*
- For 12 mm NEOTRA ADVANCED SURFACES: 1 m/min - 1.5 m/min*
- For 20 mm NEOTRA ADVANCED SURFACES: 0.5 m/min - 1 m/min*

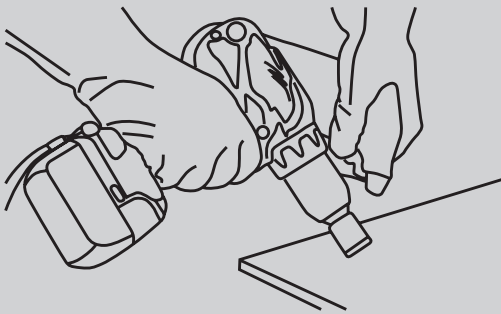
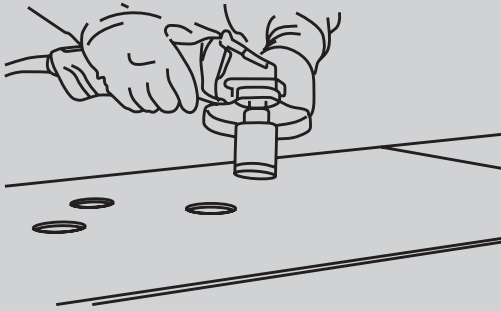
* Depending on the type of blade to be used and the brand, it is necessary to adjust the specific revolutions and speeds. To do so, use a suitable blade depending on the type of machinery available. If the machine has a frequency converter, any blade out of those recommended can be used, by simply adjusting the revolutions.

Requirements of machine

- Cooling water flow focused on the cutting area
- Use large flange
- Support of larger dimension of the Neotra Advanced Surfaces
- Sharpen frequently the diamond
- Well-levelled bed support
- Blade depth 1/8 inch to 3/16 inch on the cutting bed

If the edges of the SLAB are sharp or uneven after it has been broken, clean and smooth the edges with a diamond pad or abrasive discs.

DRILLING

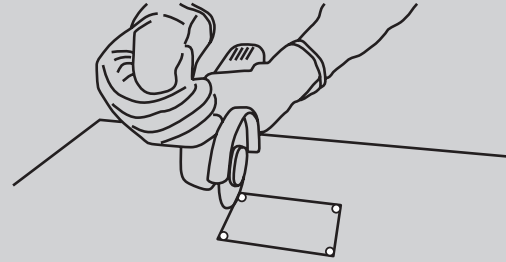


As an alternative, you can use cutting disc fitted to angle grinders, electrical drills or battery-operated screwdrivers.

Only use standardized blades to machine Neotra Advanced Surfaces. In general, the tools operate at very slow speeds and are highly cooled (ideally immersed). For which, it is recommended to place a container on the Neotra Advanced Surfaces, containing the coolant while drilling.

In the event of problems securing the drill at the start of the work, use holes in a materials as a guide, to then attach to Neotra Advanced Surfaces with the use of clamps. Another option is to slightly punch the surface of Neotra Advanced Surfaces and then use a small milling cutter to drill 5 mm. Then, the recommended drills can be used with a guide. If the drill is used directly on the material, the material must be fed at 45° until a 3 mm notch has been made. Then, the drill is gradually straightened until in a vertical position. Small circular movements should be made now to complete the work. It is vital to sharpen the tool after 4 drills with abrasive paste or similar.

INTERNAL CUT / L-SHAPED CUT

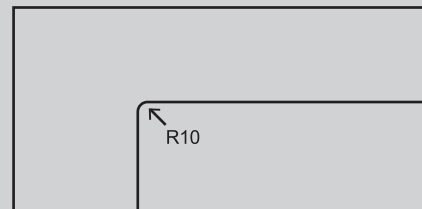


To make rectangular holes in stone, start by making a round hole at each corner of the rectangle. Then make straight cuts between each hole with a discs cutter with a diamond discs. This will prevent excessive stresses being generated at the corners of the rectangle which could then form a crack in the stone itself.

MINIMUM RADIUS AND DISTANCES

It is mandatory that any internal corner must be rounded.

Inside Corners on L-Shapes must have a minimum **10mm** radius.



notes

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PASTELLI