NEOPARIÉS

Glass-Ceramic Building Matarials

Nippon Electric Glass

Cover : Düsseldorf Subway Stations (GERMANY) with NEOPARIÉS
Design by Doring Dahmen Joeressen Architekten
Photo by Hitoshi Kawamoto

NEOPARIÉS

FEATURES

NEOPARIÉS is a new building material having a marble-like texture and greater strength and resistance to weathering than granite. It is used for exterior and interior walls of buildings, floors, and for counter tops and table tops. NEOPARIÉS can also be formed into columns and curved corners, as it requires only a simple process to make a curved panel.

1. Lighter and Stronger

NEOPARIÉS is lighter and stronger than granite and more resistant to scratching and abrasion than marble. They are not subject to the fissure and fracture patterns that commonly result from the quarrying of stone. With a greater bending strength, they can fabricated into thinner panels than natural stone.

2. Easily Formed into Curved Panels

NEOPARIÉS can be re-formed into a wide range of convex and concave radii panels, resulting in greater design flexibility at lower cost than hewn stone.

3. Impermeability/Minimum Maintenance

NEOPARIÉS is virtually impermeable and are not subject to freeze-thaw damage, penetration by rust, mortar or other staining substances. Moisture absorption, as a design consideration, has been eliminated. With NEOPARIÉS, contaminants are easily removed during regular building maintenance. Even graffiti can be cleaned without difficulties.

Hotel ELSÉREINE (JAPAN) with NEOPARIÉS
Design by Nikken Sekkei Ltd.
Photo by Masahiko Tanaka

4. Low Thermal Expansion

With an extremely low coefficient of expansion, NEOPARIÉS is not subject to thermal cracking that can affect other cladding materials.

5. Weather Resistance

NEOPARIÉS is significantly more resistant to acids, alkalis, oils and other chemical substances than either marble or granite. Unlike stone, their surface and physical properties are not degraded even after years of exposure to environmental pollutants, including acid rain.

NEOPARIÉS

The unique patterns of crystallized glass allow creative expression.

Neopariés is made by the highly sophisticated and specialized technique of crystallization of glass.

We provide this crystallized glass architectural material, which has high weather-resistance and endurance, in a rich variety of patterns and colors. In addition, this material can be heated and softened to form curved shapes.

VARIATION

NEOPARIÉS Standard

Produced by adding colorant to glass raw material.

White

Silver Gray

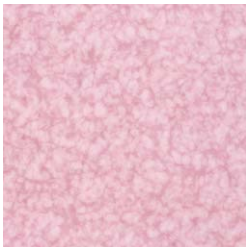
Beige

Black

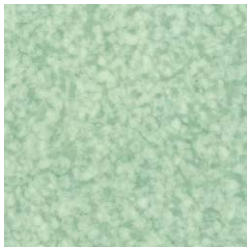
NEOPARIÉS Pigment (Made to Order)

Produced by adding pigment to granulated glass.

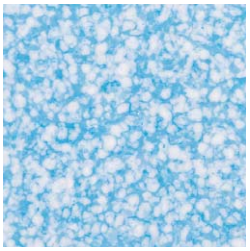
Pink



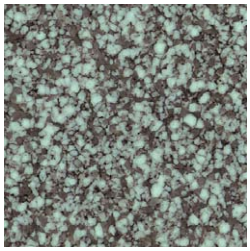
Green



Blue



Dark Brown



∗Please contact us about other colors.

Translucence
(Made to Order)

Glare White allows light to pass through.

Glare White

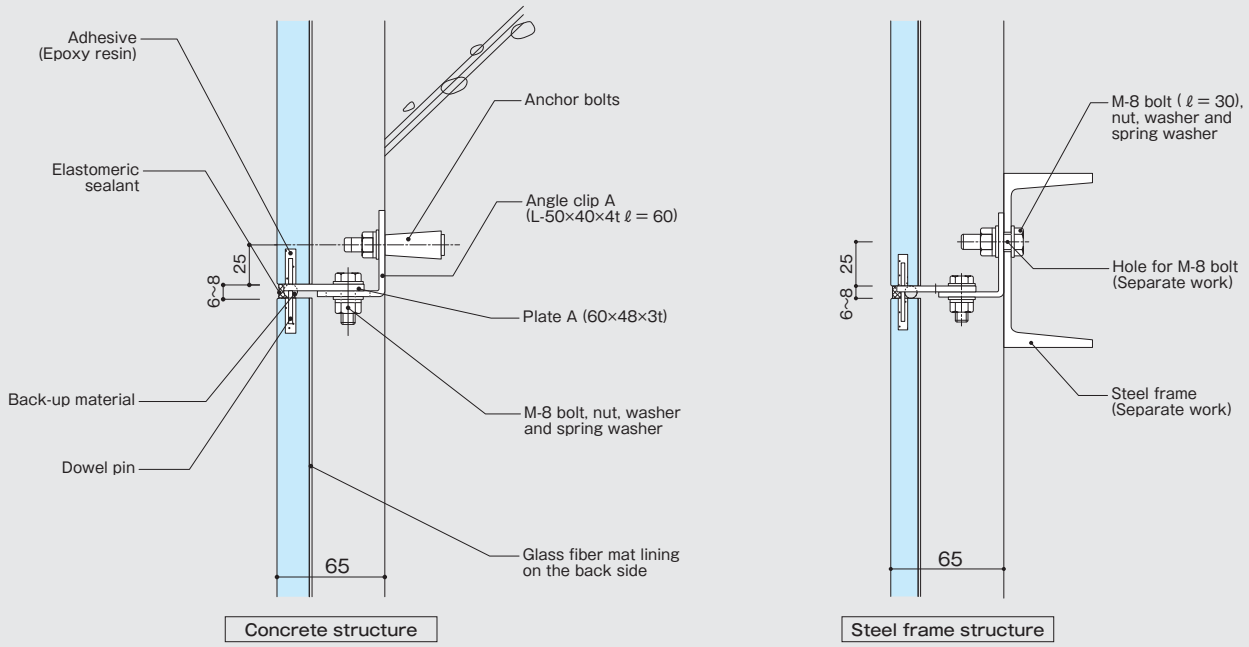
Spot light source

Flat light source

Standard installation details for flat exterior walls

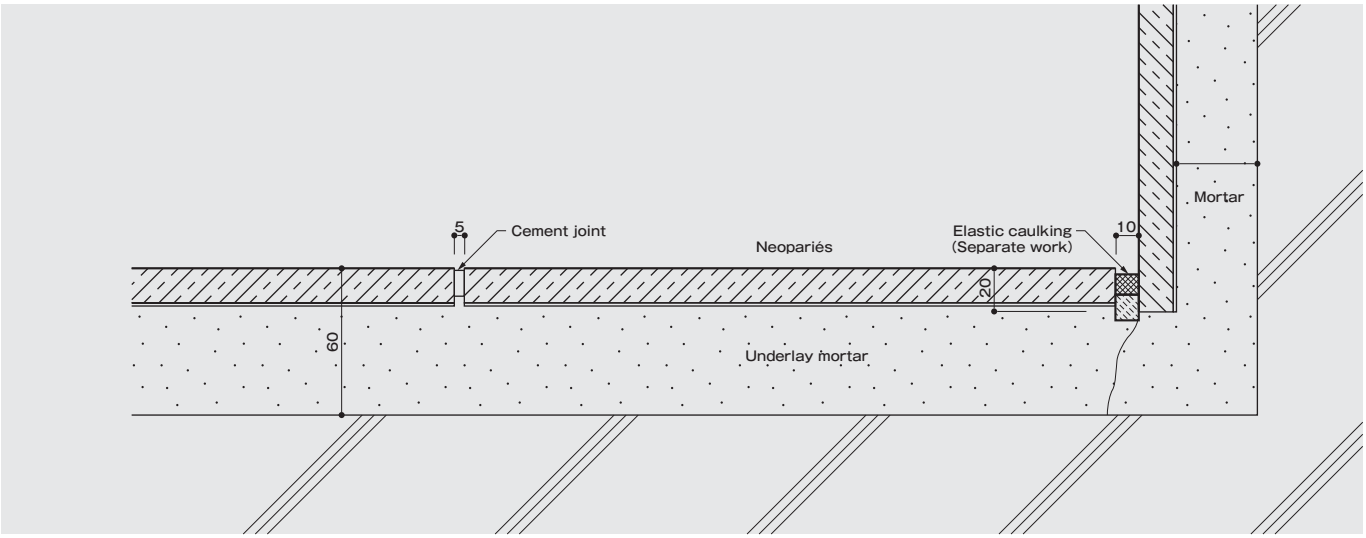
Applied location : Flat exterior walls / Interior walls over 4m high

Unit : mm



∗Neopariés is a made to order product.
∗Actual colors may differ slightly from this catalogue.
∗Please confirm the texture of finished surface by samples.

Standard installation details for floors

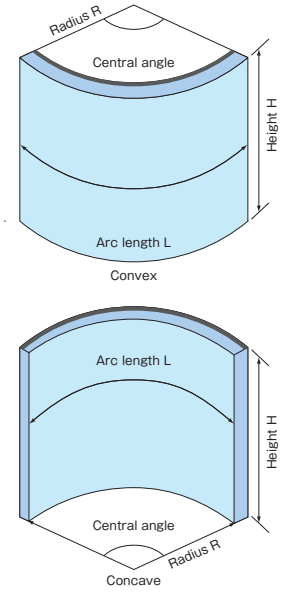


Neopariés Standard Size

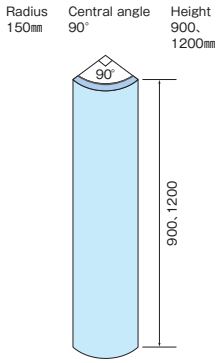
Shape	Size (㎜)	Color	Remarks
Flat panel	900×900 900×1200 900×1800	Standard Pigment	
Curved panel	200R 250R	Standard	Max. central angle 90 deg. (1/4 circle) Convex only
	300R	Standard Pigment	
	350R 400R 450R 500R 550R 600R 650R		Max. central angle 90 deg. (1/4 circle) [Note : Convex only on 650R] Convex, Concave
	700R~4000R		Convex, Concave
Curved corner panel	150R×90°×H900 150R×90°×H1200	Standard	Convex

∗Panel thickness is 15mm or more. (Slight thickness nonuniformity occurs as a result of production method.)
∗Please ask us about sizes other than the above.
∗Neopariés with adjoining square corner panels without joints is also available.
In this instance, the short side must be within 100 mm, consult us about details.

☐ Curved panel



☐ Curved corner panel



Characteristics of Neoparés and Natural Stones

Characteristics / Materials			Neopariés White	Marble	Granite
Lighting	Whiteness Degree (L-Value) (1)		94	approx. 90	—
	Diffuse Reflection Rate	(%)	80	42	44
	Regular Reflection Rate	(%)	4	4	4
Thermal	Thermal Expansion Coefficient	($\times10^{-6}$/K)	6.1	7.0	7.0
	Thermal Conductivity	(W/m·K)	1.6	2.3	2.1
	Specific Heat	(J/kg·K)	710	750	750
Mechanical	Specific Gravity		2.7	2.7	2.7
	Bending Strength	(N/mm^2)	41	11	14
	Young's Modulus	($\times10^4 N/mm^2$)	8.6	7.5	5.1
	Mohs' Hardness		5.5	3	5.5
Chemical	Acid Resistance (2)	(mg/cm^2)	0.2	267	26.2
	Alkali Resistance (3)	(mg/cm^2)	0.7	7.8	2.6
	Seawater Resistance (4)	(mg/cm^2)	0.1	0.2	0.2
	Water Absorption Rate (5)	(%)	0.0	0.3	0.4
	Freeze Resistance (6)	(%)	0.0	0.2	0.3

(1) One of the three elements of color. Index to represent brightness (whiteness). (100:Perfect white⇔0:Perfect black). In-house measured data.
(2) Weight loss of test piece of 25×25×5mm after 24-hour immersion in 1% H_2SO_4 solution of 90℃.
(3) Weight loss of test piece of 25×25×5mm after 24-hour immersion in 1% NaOH solution of 90℃.
(4) Weight loss of test piece of 25×25×5mm after 24-hour immersion in simulated seawater of 90℃.
(5) Weight increasing rate of test piece of 25×25×15mm after 48-hour immersion in water.
(6) Weight loss of test piece of 15×15×10mm after 25 cycles : immersion of test piece in water of 25℃ for 2 days=expose for 4 hours in a temperature of -20℃.

The above figures are measured values, not guaranteed.

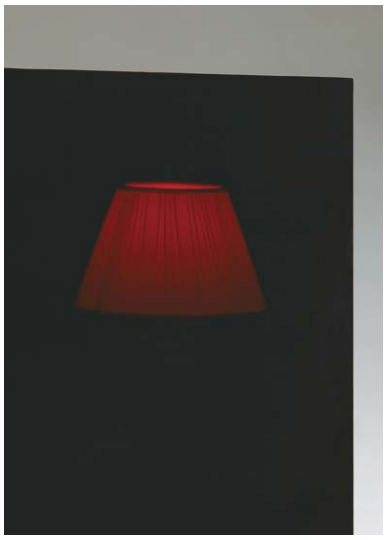
Blanc-Neige / CrysteL-Nero

The beautiful radiance of the mirror-finish appeals to everyone.

This fine material, which is made of glass ceramic, has excellent durability and a beautiful radiance that lasts for a very long time.

FEATURES

1. Light, thin and easy to be installed.
2. Excellent durability and zero water absorption.
3. Easy to cut by an oil cutter as window sheet glass.
4. Excellent heat-resistant property.
5. Luster type is mirror-finished and reflects light beautifully.
6. CrysteL-Nero Chic has a gently semi-glossy surface.
7. CrysteL-Nero — translucent material.



Translucent CrysteL-Nero

VARIATION

▶ Blanc-Neige (Stocks available)

White Luster

▶ CrysteL-Nero (Stocks available)

Black Luster

Black Chic

PROPERTY

Subject	Blanc-Neige (White)	CrysteL-Nero (Black)
Specific Gravity	2.5	2.5
Bending Strength	48N／㎟	65N／㎟
Vicker's Hardness	7.2GPa	7.8GPa
Heat Resistant Temperature	500℃	500℃
Water Absorption Rate	0.0%	0.0%

＊ The above figures are measured values, not guaranteed.

SPECIFICATIONS

Subject	Blanc-Neige (White)	CrysteL-Nero (Black)
Texture	Mirror-finish	Mirror-finish, Semi-glossy
Thickness	5.0±0.5㎜	5.0±0.5㎜
Warp	Less than 1.0㎜/m	Less than 1.0㎜/m
Standard Size	600× 600㎜ 900× 900㎜ 900×1200㎜	600× 900㎜ 900× 900㎜ 900×1200㎜
Maximum Size	1200×2400㎜	900×2400㎜
Curved panel	Made to order	Mirror-finished made to order
L-shaped corner panel	10R 180×180× H900㎜ 10R 180×180×H1200㎜	10R 180×180× H900㎜ 10R 180×180×H1200㎜

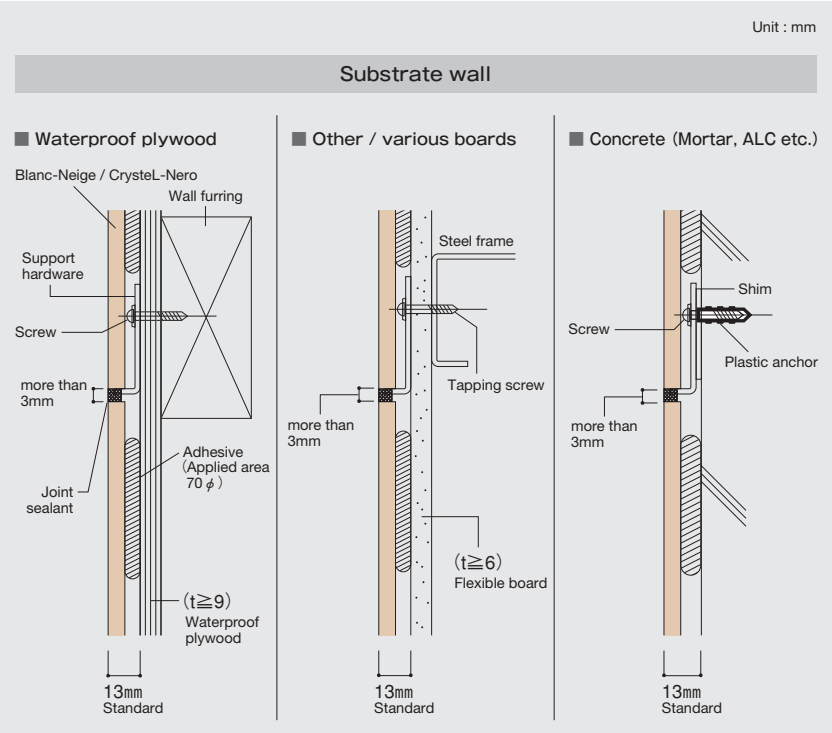
＊Please ask us the maximum height size of L-shaped corner panel.
＊Please ask us the maximum size of the product.

INSTALLATION METHOD

Subject	Interior walls upto 4m high	Interior walls over 4m / Exterior walls upto 10m high
Installation method	● Adhesive support hardware method ● Framing method	● SG (Silicone Glazing) method ● Framing method

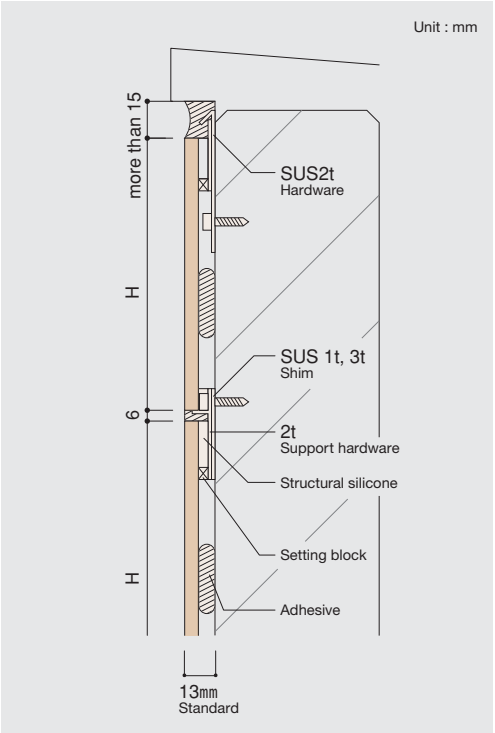
Installation Method for Interior Walls

Various types of substrate walls



Installation Method for Exterior Walls〔Reference〕

If you install Blanc-Neige / CrysteL-Nero as an exterior wall up to 10m or as an interior wall over 4m high, please refer to the following drawings.



⚠ Warning Blanc-Neige / CrysteL-Nero are glass materials. If they are cracked or broken, you may be seriously injured by their fragments. Be careful in handling the products.

Photo by Shinkenchiku-sha

THE DELEGATION OF THE ISMAILI IMAMAT (CANADA)
with NEOPARIÉS

Design by MAKI AND ASSOCIATES IN ASSOCIATION
WITH MORIYAMA & TESHIMA ARCHITECTS

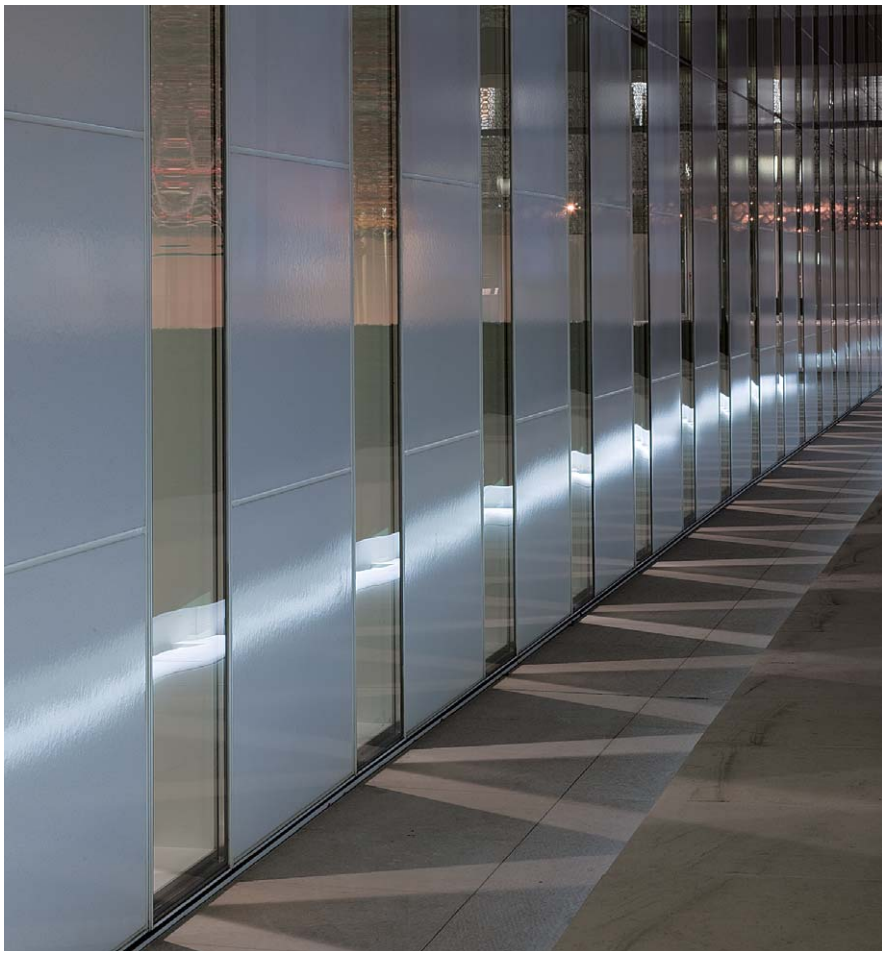


Photo by Hitoshi Kawamoto

1


Photo by Koji Omaru

2

3

4

1 〉 The Fairmont Dubai（U.A.E.）with NEOPARIÉS
Design by Consolidated Engineering Co.

2 〉 Irie Dental Clinic（JAPAN）with Blanc-Neige
Design by HARA YOSHIOKA ARCHITECT OFFICE

3 〉 Use as Kitchen Panelling with Blanc-Neige

4 〉 Video UNITÉ（JAPAN）with CrysteL-Nero
Design by GOSiZE

Nippon Electric Glass Co.,Ltd.
http://www.neg.co.jp/arch/

Electric Glass Building Materials Co.,Ltd.
International Trading Division
11-1, Miyahara 2-chome, Yodogawa-ku, Osaka 532-0003, Japan
Phone: (International) 81-6-6399-2728
FAX: (International) 81-6-6399-2740

N001EOA 5C MAR '11