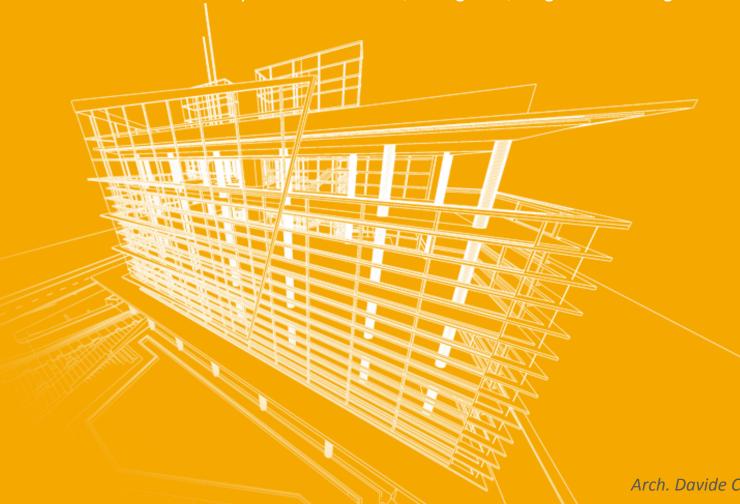


INFINITY - PROJECT DIVISION

The experience of our in-house team that accompanies architects, designers, engineers and general contractors





NEW GENERATION, ESTABLISHED LEGACY



Infinity derives from decades of experience accumulated by **Concorde Group**, the **largest Italian manufacturer of ceramic** floor and wall coverings for architecture and interior design, founded in 1969 in Fiorano.









Infinity Project Division is the specialized division for the design of:

- VENTILATED FACADES
- GLUED FACADES
- RAISED FLOORS

Specialist technical help at all stages of the job:

from the inital sketches to the installion of the product on site.







PROJECT DIVISION - SERVICES

FOR THE CUSTOMERS:

- Supports for special applications in 5 continets
- Ability to enter ins specific project, witht he safety to be followed by the Infinty's technicians

FOR THE DESIGNERS:

- Support to choosing the best system for each single application
- Support to making specs
- Design and calculation support

FOR THE GENRAL CONTRACTORS AND INSTALLERS:

- Take off and quantities/costs evaluation
- Job site assistance







VENTILATED FAÇADES

The design solution that maximizes benefits and aesthetic appearance

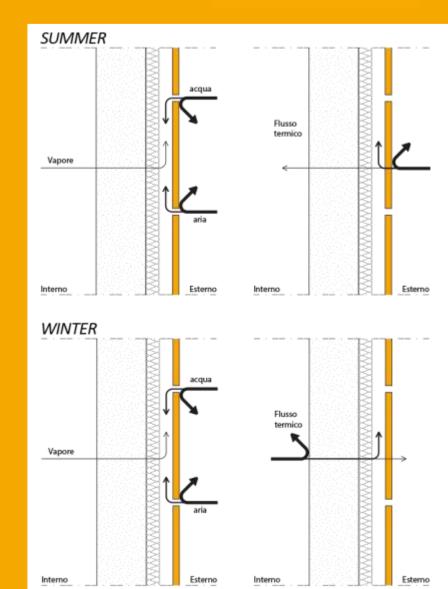




VENTILATED FACADE HOW IT WORKS



The UNI 11018 standards define the ventilated façade as a type of rain screen barrier where the **cavity between the siding and the wall** is designed in such a way that the air within it can flow naturally thanks to the principal called "**chimney effect**", which notably improves the overall thermal-energy performance of the building.









Up to 30% improved energy efficiency

The Infinity ventilated façades are an investment for the building that is easily offset considering the energy savings it brings



Durability

The useful life of the façade can be compared to that of the building itself, and it does not require specific maintenance



Sustainable and efficient

Sustainability and efficiency are guaranteed thanks to the lowered energy consumption and zero costs in maintenance







Fireproof

The systems with mechanical anchoring exclusively use non-combustible materials



Moisture protection

The ventilation within the cavity wall helps disperse the interstitial moisture of the exterior wall assemblies



Protection from weather

The cladding slabs are not subject to any kind of deterioration caused by weathering and at the same time protect the layers behind, extending their useful life







Comfort

The ventilated façade is a guarantee of thermalhygroscopic comfort and acoustic insulation



Absence of cracks or crazing

Infinity ventilated façades are designed to permit all kinds of thermal dilation between the materials. Furthermore, cladding raised off the wall surface avoids all types of efflorescence



Architectural inspiring

Thanks to the vast selection of colours and finishes,
Infinity makes for punctual and high-performing
architectural projects







Ecological

All ceramic and metallic components are recyclable and during their life cycle, which is longer than the average for construction materials, they do not emit VOC or other harmful substances



Renovation

The ventilated façade system is easy to apply to existing buildings, improving appearance and energy performance



Complete design freedom

Infinity slabs are produced using the highest quality standards and, thanks to their size, they lend themselves for use in all types of residential and non-residential construction

ADVANTAGES OF THE PRODUCT

All Infinity products have structural, aesthetic and functional characteristics that make them a unique option for furnishings and indoor and outdoor floor and wall coverings.

The slabs are resistant to wear and tear and scratches, and are easy to clean. As the years pass, they do not show the unattractive signs of wear typical of resins or other natural materials, and are not affected by heat or acids.









INFINITY SLABS vs ALUMINIUM PANELS



VENTILATED FACADE _INFINITY SLABS



INFINITY SLABS vs GFRC PANELS



Excellent mechanical characteristics



Maintenance and cleaning not necessary



Lower water absorption – frost resistance



Preserve technical/ aesthetic qualities during time



More aestethic possibilities





INFINITY SLABS vs NATURAL STONES



Lower thickness and weight



Excellent mechanical characteristics



Lower water absorption – frost resistance



Maintenance and cleaning not necessary



Preserve technical/ aesthetic qualities during time



VENTILATED FACADE INFINITY SLABS



INFINITY SLABS vs NATURAL STONES

Data	Sandstone	Gneiss	Quarzite	Granite	Travertine	INFINITY SLAB
Density	2460 kg/m ³	2630 kg/m ³	2660 kg/m ³	2750 kg/m3	2410 kg/m3	2370 kg/m ³
Standard Thickness	30 mm	20 mm	30 mm	40 mm	30 mm	20 mm
Water absorption	1,60%	0,34%	0,30%	0,30%	1%	0,05%
Flexion resistance	12,7 N/mm ²	28,4 N/mm ²	47,9 N/mm ²	15,10 N/mm ²	11,8 N/mm ²	51,7 N/mm ²



	Water absorption (%) ISO 10545-3	Flexion resistance (N/mm²) ISO 10545-4	Deep abrasion resistance (mm³) ISO 10545-6	Chemical resistance	Stain resistance	Protection surface treatment after installation	Color variation due to UV ray
INFINITY porcelain stoneware	0.03 - 0.06	48 – 53	1 <mark>2</mark> 5 – 140	Excellent	Excellent	Not necessary	Not Affected
Travertine	1 – 2.5	10 – 15	250 - 350	Poor	Poor	Reccomended	Affected
Granite	0.2 – 0.5	10 – 15	250 – 500	Good	Good	Reccomended	Affected
Marble	0.3 – 2.0	10 – 15	500 – 700	Poor	Poor	Reccomended	Affected
Stone	0.5 – 2.0	10 - 35	350 – 900	Medium	Medium	Reccomended	Affected

VENTILATED FACADE SYSTEMS

Systems for 6mm thickness slabs







PREFABRICATION ON ALUMINIUM VERTICAL PROFILE

Using specific chemical adhesives, the Infinity slabs are preassembled onto **aluminium profiles** that have been specifically shaped to house concealed mechanical brackets and vertical supports that guarantee the safety of the system in all environmental conditions.



The stoneware slab is pre-assembled by gluing and pressing it onto a panel made up with a modified polymer "core" and by a steel sheet. The final thickness of **18mm** makes it suited to the construction of angular elements and monoliths for stunning architectural and aesthetic impact.

PREFABRICATION ON AN ALUMINIUM FRAME: CLOSED-JOINT SYSTEM

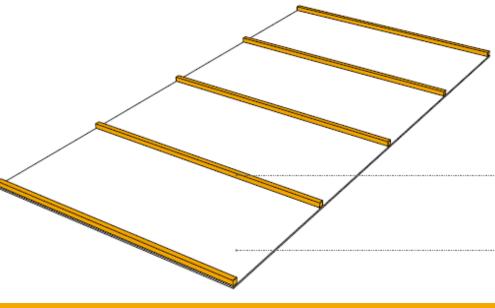
The system is notable for its appealing aesthetics, achieved thanks to the ability of closing all the spaces between the Infinity slabs. The cladding panels are pre-assembled at the manufacturing plant onto an aluminium framework that increases their resistance and allows them to be fixed to the wall.





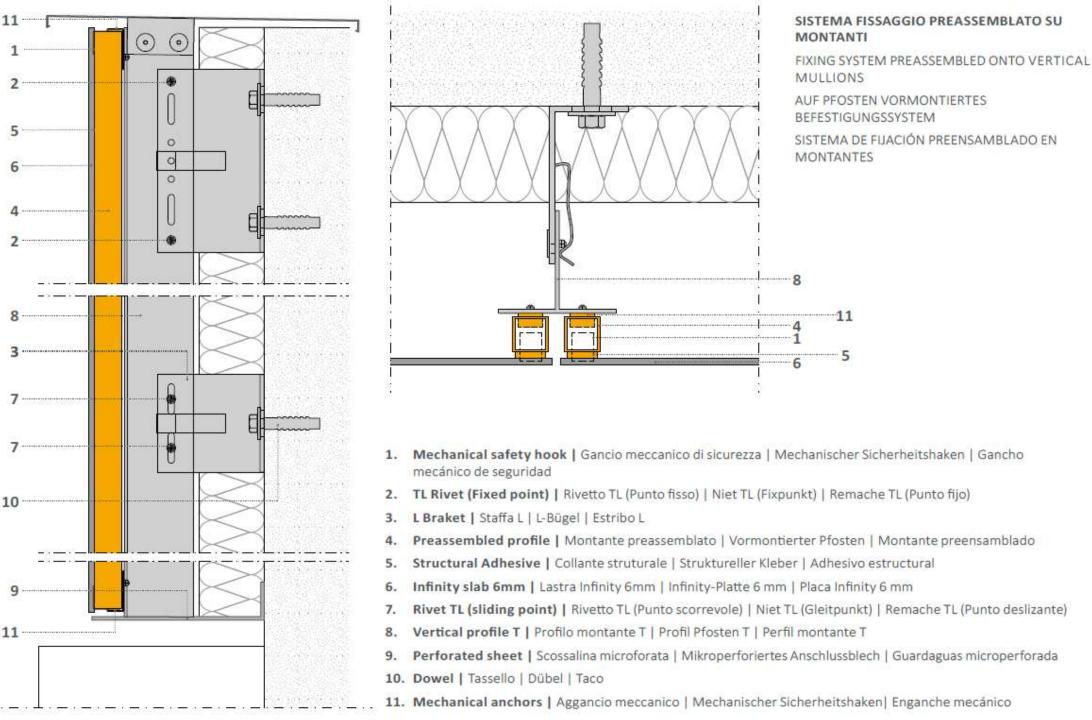
1- BONDING PROCEDURE Prefabrication in the manufacturing plan

2- INSTALLATION Only mechanichal fixations are used onside













Deculto

TEST RESULTS

Toot Tumo

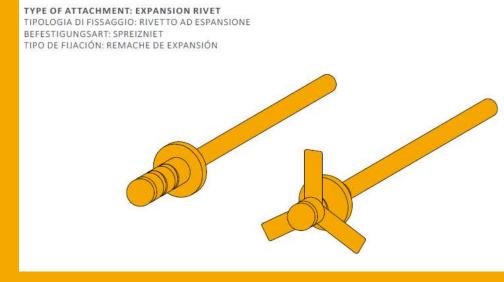
On the basis of the test performed and the result obtained, the test sample, comprising an external wall cladding called "Infinity ventilated façade with slab 160x320x0,6cm with mesh (Substructure axial distance 780mm)", is assigned the performance as regards the tests specified in the following table:

Test Type Tipologia di test Prüfungsart Tipo de prueba	Test Standard Test Standard Standardtests Prueba estándar	Results Risultati Ergebnisse Resultados
RESISTANCE TO WIND LOAD Resistenza al carico del vento Windlastwiderstand Resistencia a la carga del viento	ETAG 034	> 5000 Pa
RESISTANCE TO BODY IMPACT Resistenza all'impatto con i corpi esterni Widerstandsfähigkeit gegen Stöße mit externen Körpern Resistencia al impacto con cuerpos externos	ETAG 034	CATEGORY III

Tost Chandord





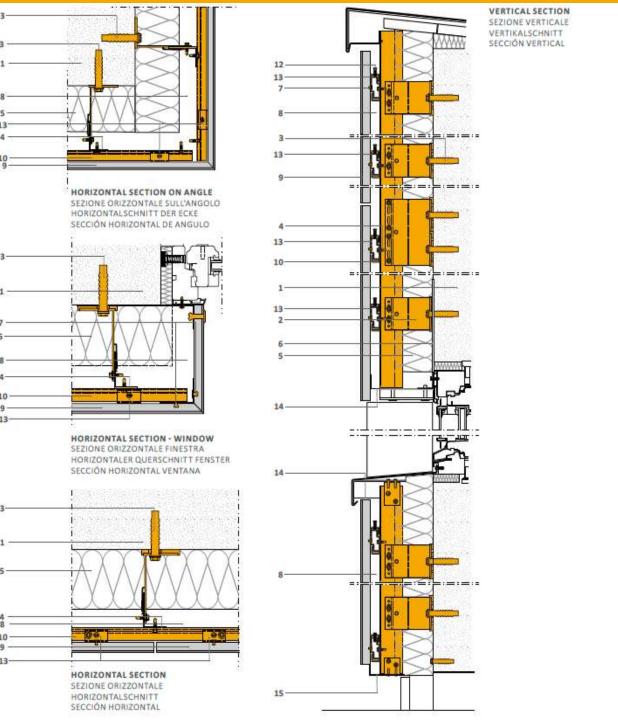


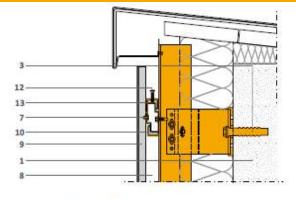




Anchorage on the slab Ancoraggio su lastra Verankerung auf der Platte Fijación sobre placa	
Horizontal Profile Profilo Orizzontale Horizontales Profil Perfil Horizontal	
Vertical Profile Montanti Pfosten Montante	
Bracket Staffe Bügel Estribo	

Vertical spacing Passo verticale Senkrechter Abstand Paso vertical	Horizontal Spacing Passo orizzontale Waagerechter Abstand Paso horizontal
50 - 80 cm	40 - 60 cm
50 - 80 cm	
	60 - 80 cm
50 - 80 cm	60 - 80 cm

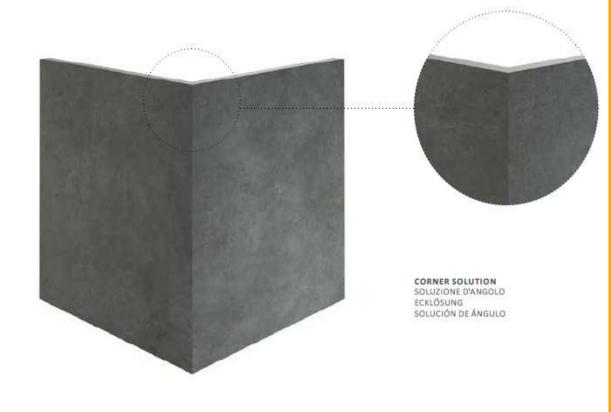




VERTICAL SECTION - WINDOW SEZIONE VERTICALE FINESTRA VERTIKALER QUERSCHNITT FENSTER SECCIÓN VERTICAL VENTANA

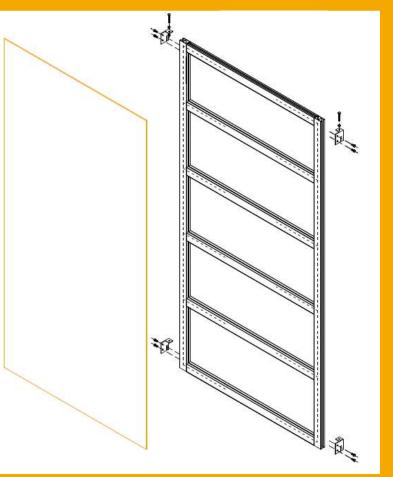
- 1. Base | Sottofondo | Untergrund | Soporte subyacente
- 2. Bracket | Staffa | Bügel | Estribo
 - 3. Dowel | Tassello | Dübel | Taco

 - 4. Self-drilling screw | Vite autoforante | Selbstschneidende Schraube | Tornillo autoperforante
 - 5. Insulation | isolante | Isolierung | Aislamiento
 - 6. Insulation fixing | Fissaggio dell'isolante | Befestigung der Isolierung | Fijación del aislamiento
 - 7. Rivet | Rivetto | Niet | Remache
 - 8. Ventilation Gap | Camera di ventilazione | Lüftungskammer | Cámara de ventilación
 - 9. Preassembled Infinity panel | Pannello infinity preassemblato | Vormontierte Infinity-Platte | Placa Infinity preensamblada
 - 10. Horizontal Profile | Profilo Orizzontale | Horizontales Profil | Perfil Horizontal
 - 11. Fixing Screw | Vite di fissaggio | Befestigungsschraube | Tomillo de fijación
 - 12. Adjustment screw | Vite di regolazione | Stellschraube | Tornillo de regulación
 - 13. Fastener | Graffa | Klammer | Clip
 - Additional profile for Air Inlet | Profilo Aggiuntivo per ingresso aria |
 Zusatzprofil für Lufteinlass | Perfil adicional para la entrada de aire
 - 15. Drilled Profile | Profilo Forato | Perforiertes Profil | Perfil perforado



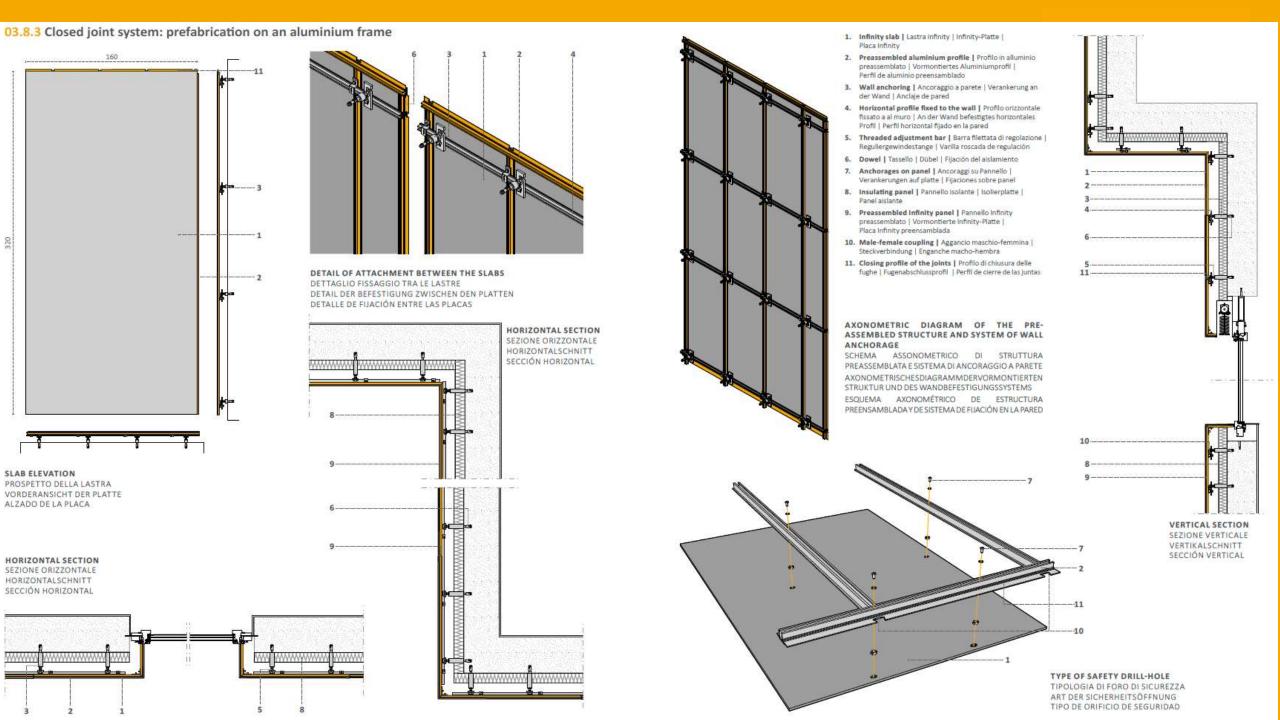


VENTILATED FACADE SYSTEMS 3 Prefabrication on Frame







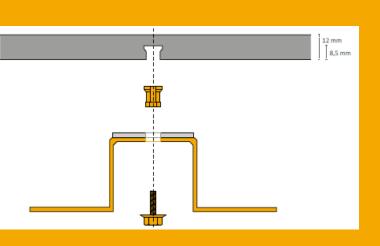








System for 12mm thickness slabs



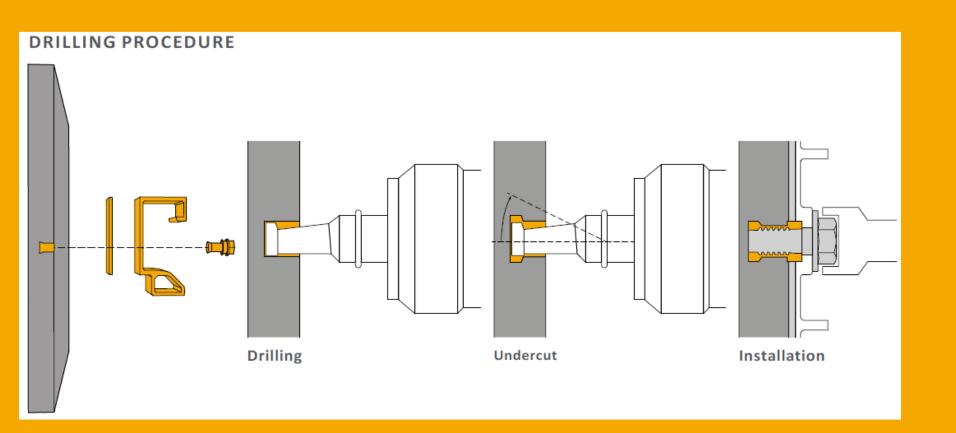


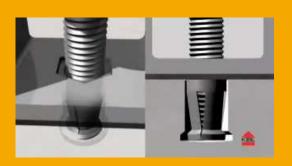






System for 12mm thickness slabs

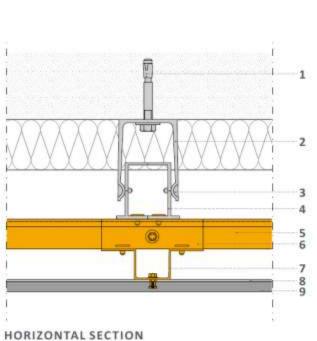




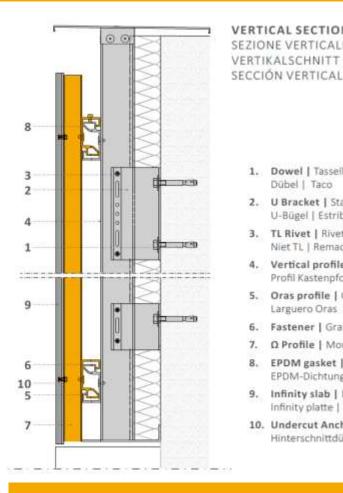








SEZIONE ORIZZONTALE HORIZONTALSCHNITT SECCIÓN HORIZONTAL



VERTICAL SECTION SEZIONE VERTICALE VERTIKALSCHNITT

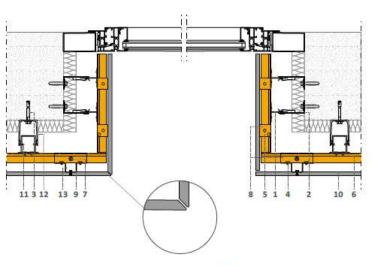
- 1. Dowel | Tassello | Dübel | Taco
- 2. U Bracket | Staffa U | U-Bügel | Estribo en U
- 3. TL Rivet | Rivetto TL | Niet TL | Remache TL
- 4. Vertical profile | Profilo montante scatolare | Profil Kastenpfosten | Perfil montante rectangular
- 5. Oras profile | Corrente Oras | Oras-Abschlussleiste| Larguero Oras
- 6. Fastener | Graffa | Klammer | Clip
- Ω Profile | Montante Ω | Pfosten Ω | Montante Ω
- 8. EPDM gasket | Guarnizioni EPDM | EPDM-Dichtung | Junta EPDM
- 9. Infinity slab | Lastra Infinity | Infinity platte | Placa Infinity
- 10. Undercut Anchor | Tassello sottosquadro | Hinterschnittdübel | Taco contra despulla



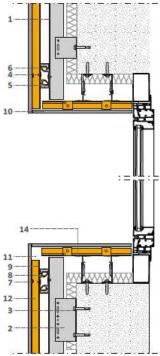


HORIZONTAL SECTION - WINDOW

SEZIONE ORIZZONTALE FINESTRA HORIZONTALER QUERSCHNITT FENSTER SECCIÓN HORIZONTAL VENTANA



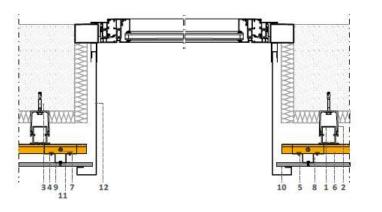
VERTICAL SECTION – WINDOW SEZIONE VERTICALE FINESTRA VERTIKALER QUERSCHNITT FENSTER SECCIÓN VERTICAL VENTANA



- T Vertical profile | Profile montante T | Profil Pfosten T | Perfil Montante T
- L Bracket (with spring) | Staffa L (con molla) |
 L-Bügel (mit Feder) | Estribo L (con muelle)
- 3. Dowel | Tassello | Dübel | Taco
- 4. TL Rivet | Rivetto TL | Niet TL | Remache TL
- Blocking screws | Vite di bioccaggio | Blockierschraube | Tornillo de bioqueo
- Oras Profile | Corrente Oras |
 Oras-Abschlussleiste | Larguero Oras
- Adjustment Screws | Vite di regolazione | Stellschraube | Tornillo de regulación
- 8. Fastener | Graffa | Klammer | Clip
- EPDM Gasket | Guarnizioni EPDM | EPDM-Dichtung | Junta EPDM
- Infinity Slab | Lastra Infinity | Infinity platte | Placa Infinity
- 11. Vertical Profile | Profile montante scatolare | Profil Kastenpfosten | Perfil montante rectangular
- 12. U Bracket | Staffa U | U-Bügel | Estribo en U
- 13. Ω Mullion | Montante Ω | Pfosten Ω | Montante Ω
- 14. Aluminium Flashing Sheet | Lamiera Sottobancale | Flachblech Aluminium | Alfeizar de aluminio

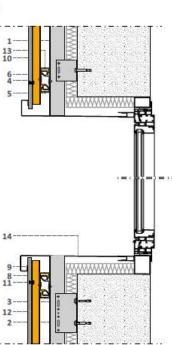
HORIZONTAL SECTION CLOSER IN ALUMINIUM

SEZIONE ORIZZONTALE IMBOTTI IN ALLUMINIO HORIZONTALER QUERSCHNITT ALUMINIUMVERSCHLÜSSEN SECCIÓN HORIZONTAL CIERRES EN ALUMINIO



VERTICAL SECTION CLOSER IN ALUMINIUM

SEZIONE VERTICALE IMBOTTI IN ALLUMINIO
VERTIKALER QUERSCHNITTALUMINIUMVERSCHLÜSSEN
SECCIÓN VERTICAL CIERRES EN ALUMINIO



- T Vertical profile | Profilo montante T | Profil Pfosten T | Perfil Montante T
- L Bracket (with spring) | Staffa L (con molla) |
 L-Bügel (mit Feder) | Estribo L (con muelle)
- 3. Dowel | Tassello | Dübel | Taco
- 4. TL Rivet | Rivetto TL | Niet TL | Remache TL
- Blocking screws | Vite di bloccaggio | Blockierschraube | Tornillo de bloqueo
- Oras Profile | Corrente Oras | Oras-Abschlussleiste | Larguero Oras
- Adjustment Screws | Vite di regolazione | Stellschraube | Tornillo de regulación
- 8. Fastener | Graffa | Klammer | Clip
- EPDM Gasket | Guarnizioni EPDM | EPDM-Dichtung | Junta EPDM
- Infinity Slab | Lastra Infinity | Infinity platte | Placa Infinity
- 11. Vertical Profile | Profilo montante scatolare | Profil Kastenpfosten | Perfil montante rectangular
- 12. U Bracket | Staffa U | U-Bügel | Estribo en U
- 13. Ω Mullion | Montante Ω | Pfosten Ω | Montante Ω
- 14. Aluminium Sill | Bancale in Alluminio | Regelklammer mit Fensterbank aus Aluminium | Alfeizar





GLUED FACADE



The use of ceramic materials directly on walls, both inside and outside, is particularly common worldwide. Infinity slabs are ideal for this, creating added value for the building and offering significant benefits, including:

- Light weight: less than 16 kg/sq.m. dead weight
- Easy and economical to install compared to other types of cladding systems
- Weather protection for buildings
- Top fire-resistance level (because there are no plastic or chemical components)
- No deterioration caused by time or weather
- No maintenance required for the facade
- Excellent aesthetic potential
- Wide range of colours and finishes
- Large size able to cover the string courses



GLUED FACADE



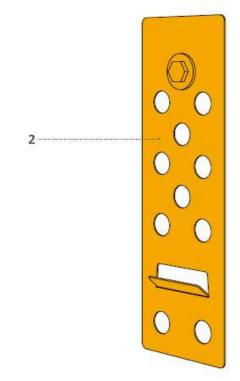
For Infinity, safety is of the essence; the recent UNI 11493 standard governing "Ceramic Tiling on Floors and Walls" contains the following indications regarding ceramic wall coverings:

- "Facades are external wall tiling systems with a height of more than 3 m"
- "For tiles with a long side of more than 30 cm, project designers must consider whether it is necessary to adopt a suitable mechanical safety anchoring system".

GLUED FACADE



- Infinity Slab | Lastra Infinity | Infinity-Platte | Placa Infinity
 - Safety hook | Gancio di sicurezza |
 Sicherheitshaken | Gancho de seguridad
 - Adhesive | Adesivo | Kleber | Adhesivo

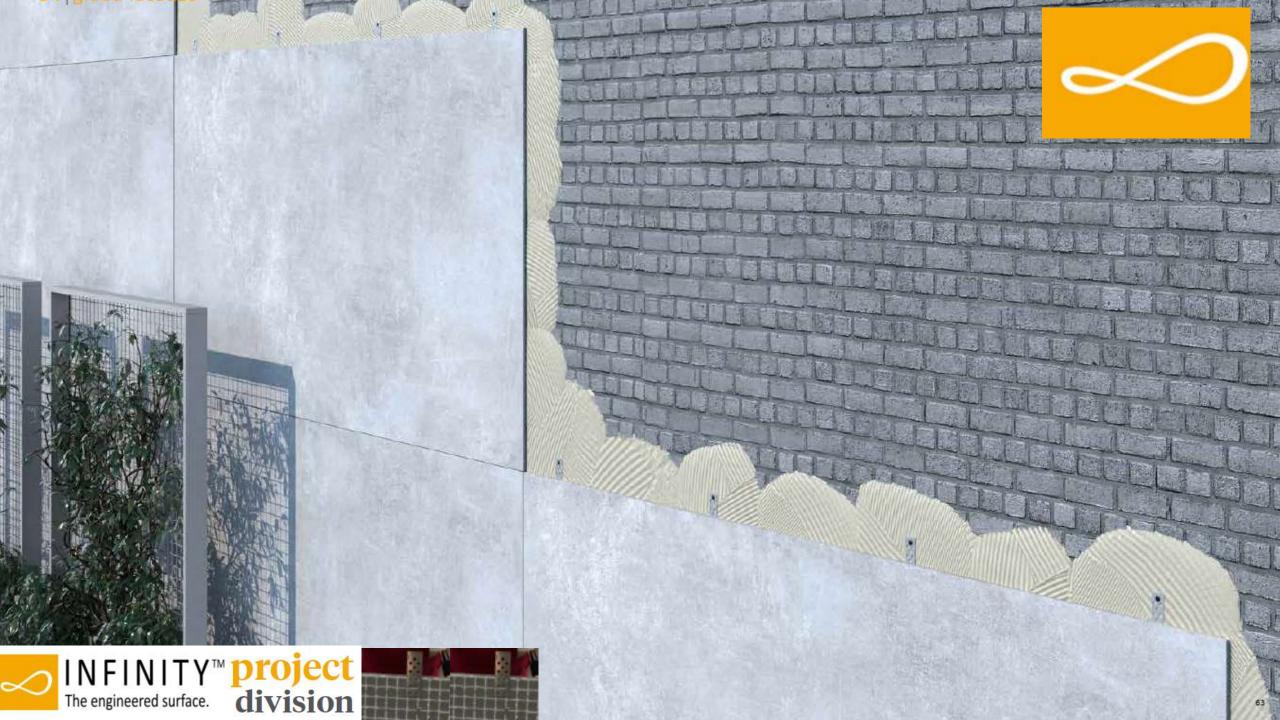


BRACKET DETAIL

DETTAGLIO DEL GANCIO MECCANICO DI SICUREZZA

DETAIL DES HAKENS





RAISED FLOOR



Modern construction technologies increasingly require **dry-laid**, **flexible**, **easily installable flooring systems**. Infinity offers a series of complete systems both for finishing interior flooring and for technical raised floors and slabs.



RAISED FLOOR – LOOSE LAID



The sub-size Infinity slabs obtained by cutting (160x160cm, 160x80cm, 80x80cm) can be supplied for specific projects with a loose-lay finish, which allows for the slabs to be installed on an existing floor, or a levelled surface, without the use of glue or grout. This type of new floor is:

- Extremely quick to lay
- Usable immediately
- Non-invasive
- Reversible and reusable





RAISED FLOOR – RAISED FLOOR



SIZE: 80x80cm

Components of the system:

• Structure in galvanized steel, made up of vertical supports and connecting cross-pieces, able to adjust height from 10cm to over 1m

- High-density calcium Sulphate panel
- Top finish with Infinity slabs
- Perimeter edge in self-extinguishing plastic material that allows for the creation of precise hermetically sealed joints that keep out dust and dirt.

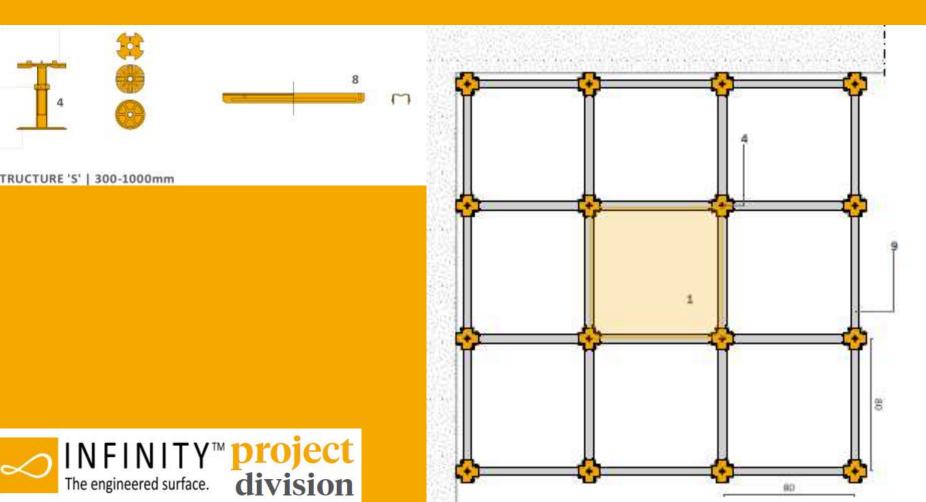






RAISED FLOOR – RAISED FLOOR

Components overview



Layout:

80x80 CM PRE-FINISHED PANELS

PANNELLI PREFINITI IN FORMATO 80x80CM VORGEFERTIGTE PLATTEN IM FORMAT 80x80CM PANELES PREACABADOS DE FORMATO 80x80CM

PANEL: 80x80 | STRUCTURE STEP: 80x80cm PANNELLO 80x80 | PASSO STRUTTURALE: 80x80CM PLATTE 80x80 | STRUKTUR ABSTAND: 80x80CM PLACA 80x80 | PASO ESTRUCTURAL: 80x80CM





Panel composed of a structural part and a finishing part, supplied and installed separately.

Components of the system:

- Structure in zinc-coated steel, made up of vertical supports and connecting cross-pieces, able to adjust height from 10cm to over 1m
- High-density calcium sulphate panel. Panels may be 60x60cm or 60x120cm. Depending on specific requirements, it is possible to opt for single panels, all of them inspectable (A) or panels with tongue and groove edges (B) that create a "raised screed".
- Finish with loose-lay Infinity slabs





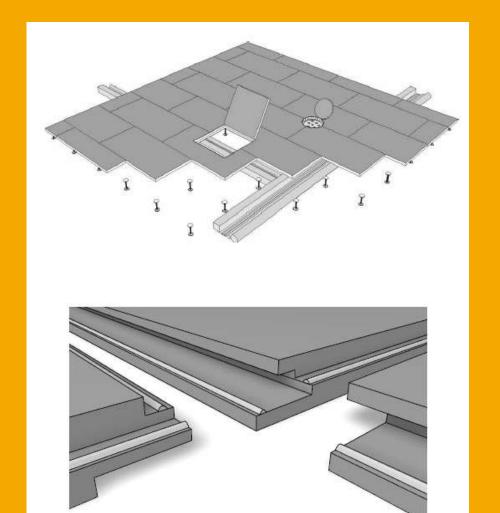
RAISED FLOOR – RAISED FLOOR 2.0



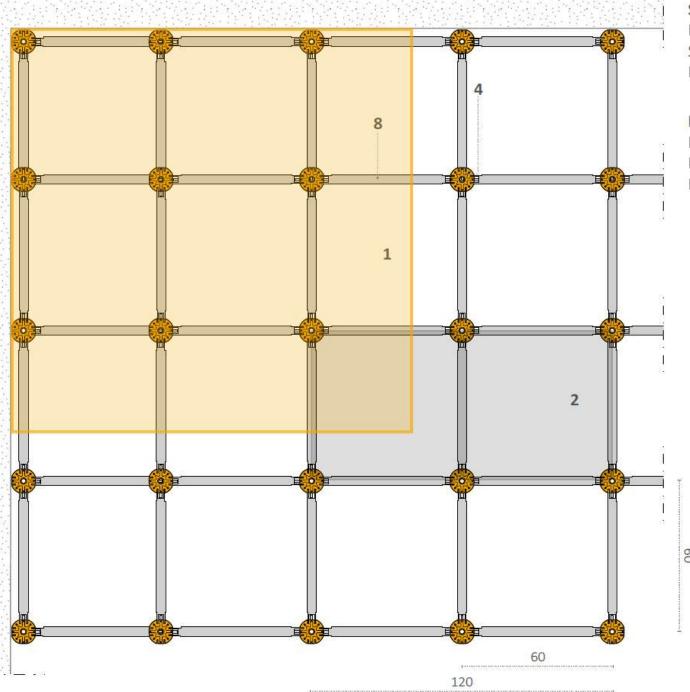
Option _ (A)











Layout

STRUCTURAL PANEL AND LOOSE-LAY FINISHING

E PAVIMENTI AUTOPOSANTI STRUCKTURELLEN PLATTEN UND TROCKENVERLEGTE FUSSBÖDEN PANELES ESTRUCTURALES Y SUELOS DE AUTOCOLOCACIÓN

PANEL: 60x120 | STRUCTURE STEP: 60X60

PANNELLO 60X120 | PASSO STRUTTURALE: 60X60 PLATTE 60X120 | STRUKTUR ABSTAND: 60X60 PLACA 60X120 | PASO ESTRUCTURAL: 60X60

- Infinity slabs | Lastra infinity | Infinity-Platte | Placa Infinity
- 2. Pre-finished panel composed of calcium sulphate and Infinity stoneware | Pannello prefinito composto da solfato di calcio e gres infinity | Aus Calciumsulfat und Feinsteinzeug Infinity bestehende vorgefertigte Platte | Placa preacabada formada por sulfato de calcio y gres infinity
- 3. Panel in unprocessed calcium sulphate | Pannello in solfato di calcio grezzo e bordi maschiati | Platte aus rohem Calciumsulfat | Placa de sulfato de calcio bruto
- 4. Support | Supporto | Träger | Soporte
- Base of the support | Base del supporto | Trägerbasis | Base del soporte
- Head of the support | Testa del supporto | Trägerkopf | Cabeza del soporte
- Adjustment nut | Dado di regolazione | Einstellmutter | Tuerca de regulación
- Crosspiece | Traversina |
 Querträger | Travesaño
- Tubular crosspiece | Traversina tubolare | Röhrenförmiger Querträger | Travesaño tubular



PERSONAL PORTFOLIO





























































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