



tempio® SYSTEMS

VENTILATED FAÇADES | FACHADAS VENTILADAS

MAKING QUALITY PROJECTS

CREANDO PROYECTOS DE CALIDAD

Ventilated façades comprise a building system that has consolidated its place among architects and builders, in particular for its high quality, aesthetic possibilities and its undisputed thermal and acoustic insulation benefits.

A ventilated façade is made up of a supporting wall, an insulating layer that is either anchored to it or sprayed on it, and a facing layer joined to the building using an anchoring structure, generally in aluminium. In this system, an air chamber is created between the insulation and the facing, and the "chimney effect" provides for an efficient natural ventilation system, maintaining the insulation dry and achieving significant energy savings.

It is considered to be the most efficient system for solving insulation issues in buildings, eliminating thermal bridges and condensation problems.

The ceramic material is extruded porcelain stoneware which is coloured throughout the whole body, with a natural or glazed finish in a wide range of colours, fired at a temperature of 1200°C.

Leading European laboratories have certified the physical characteristics of this material:

- Frost-resistant material pursuant to standard UNE EN 10545 withstanding 100 frost/defrost cycles.
- Non-combustible material.
- High impact resistance >0,75 pursuant to standard UNE EN 10545.
- Non-variable material, easy to clean.

La fachada ventilada es un sistema constructivo que se ha ido consolidando con gran aceptación entre arquitectos y constructores, sobre todo por su elevada calidad, posibilidades estéticas y por sus indiscutibles ventajas de aislamiento térmico y acústico.

El sistema de fachada ventilada consta del muro soporte, una capa de aislante anclado o proyectado sobre el soporte y por una capa de revestimiento vinculada al edificio mediante una estructura de anclaje, generalmente de aluminio. Entre el aislante y el revestimiento se crea de este modo una cámara de aire que, por el "efecto chimenea", activa una eficaz ventilación natural, manteniendo el aislamiento seco y consiguiendo de esta forma un gran ahorro en el consumo energético.

En cuanto al material cerámico, se trata de un gres porcelánico extruido color en masa, con acabado natural o esmaltado en una amplia gama de colores y cocido a una temperatura de 1200°C.

Los mejores laboratorios europeos certifican las cualidades físicas del material:

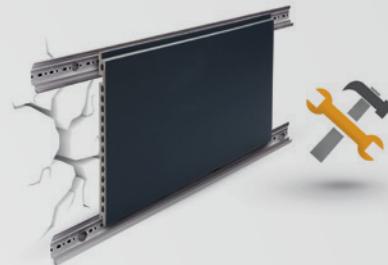
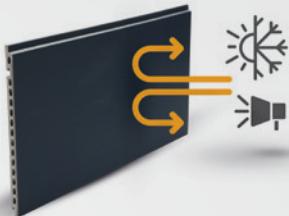
- Material resistente al hielo según norma UNE EN 10545 soportando 100 ciclos de hielo/deshielo.
- Se trata de un material no combustible.
- Importante resistencia a golpes >0,75 según norma UNE EN 10545.
- Material invariable y fácil de limpiar.



tempio®[projects] UNSW University of New South Sales Sydney, Tyree Energy Technologies Building. Sydney, Australia.

Why should you choose Tempio ventilated façade?

¿Por qué elegir fachada ventilada Tempio?



EXCELLENT ISOLATION PROTECCIÓN AISLANTE



- Energetic costs 25-40% reduction**
Reducción entre 25-40% del gasto energético



- Increased thermal and acoustic comfort**
Aumento del confort térmico y acústico



- No water condensation**
Eliminación del agua de condensación



- Waterproof building**
Impermeabilidad del edificio



- Passive ventilation**
Ventilación pasiva



- Thermal isolation**
Aislante térmico



- Double wall**
Doble pared

REHABILITATION REHABILITACIÓN



- Direct application without creating debris**
Aplicación directa sin crear escombros



- Piece by piece replaceable system**
Sistema reemplazable pieza por pieza



- Revaluation of property**
Revalorización del inmueble



- Hidden conductions**
Paso de conducciones no vistas



- Hidden cracks and crevices**
Grietas ocultas



LONG LIFE PRODUCT PRODUCTO DE LARGA VIDA



- Unalterable colours**
Colores inalterables al paso del tiempo



- Self-cleaning with rainwater**
Autolimpiable con agua de lluvia



- Time resistant**
Resistente al paso del tiempo

SUSTAINABLE SOSTENIBLE



- 0% wastewater discharged**
0 % de aguas residuales vertidas



- Low CO2 emissions**
Mínima emisión de CO₂



- Waste material recycling**
Reciclaje del material sobrante



Download technical information at
Descarga de información técnica en

www.tempio.es



13/0166



**PROJECT**

Abercrombie Building
University of Sydney Business School

LOCATION

Darlington, Australia

ARCHITECT

Woods Bagot/Kann Finch

PIECE

B-5x13

COLOURS

White Formentera EB3210



Blanco W2-07



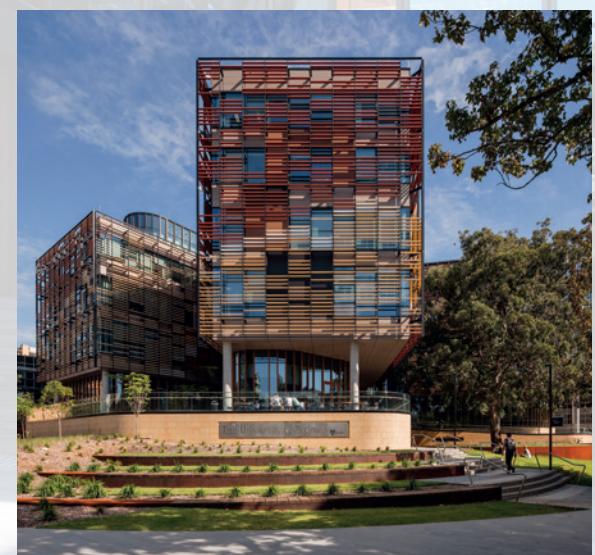
Amarillo Y125-15



Rojo R05-05



Rojo R25-25





**PROJECT**

Helsingin Malta

LOCATION

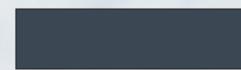
Jätkäsaari, Helsinki

ARCHITECT

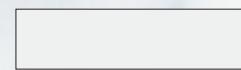
ARK-house arkkitehdit Oy

PIECE

FK-20

COLOURS

Blue Orinoco EB3370



White Madrid EM2220



Red Murano EB3550



Red Venezia EB3560



Yellow Angola EB3680



Violet Nicaragua EB3985



Violet Monterrey EB3950



Violet Guadalajara EB3990





**PROJECT**

Biological Science Building
University Of New South Wales (UNSW)

LOCATION

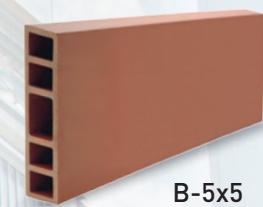
Sydney, Australia

ARCHITECT

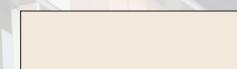
Woods Bagot, John Norman

PIECE

FK-20



B-5x5
B-250x60

COLOURS

Blanco W00-20



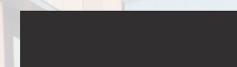
Naranja NA05-05



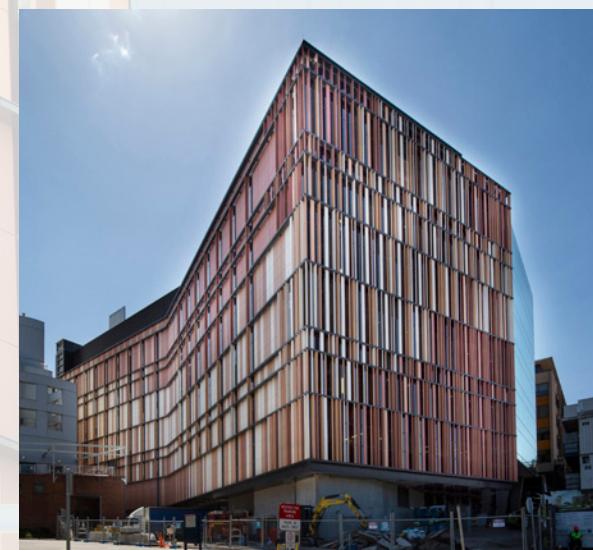
Rojo R15-10



Rojo R25-19



Negro B5-10



PROJECT

Marrakville Metro Shopping Centre

LOCATION

Sydney, Australia

ARCHITECT

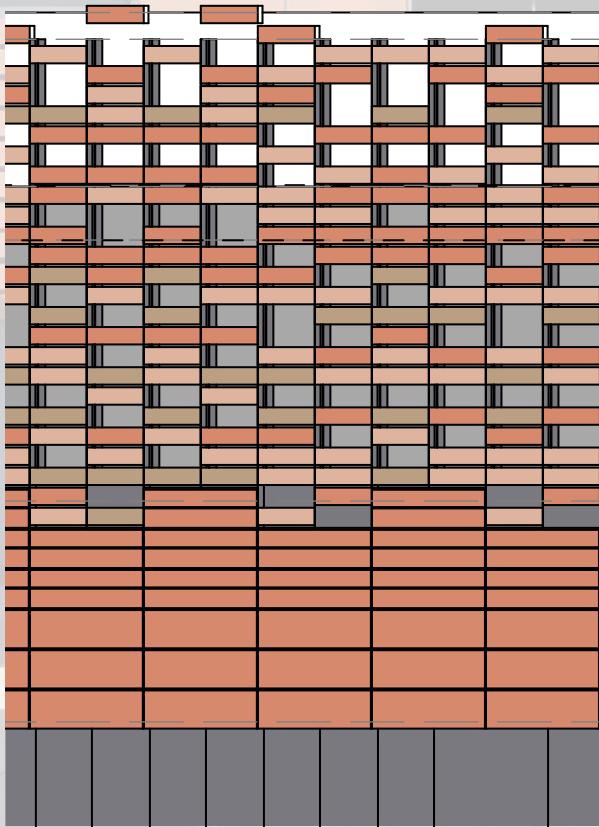
Francis-Jones Morehen Thorp

PIECE

B-5x8

COLOURS

Rojo R15-10









PROJECT

The Quads R6 Building,
Student Accommodation, Bath University

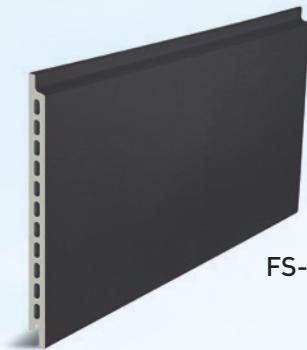
LOCATION

Bath, United Kingdom

ARCHITECT

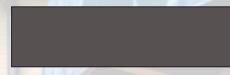
Laing O'Rourke Co.

PIECE

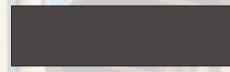


FS-20

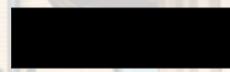
COLOURS



Grey Arcadia E3155



Grey Princeton E3182



Black Columbia E3187







PROJECT
Monarch

LOCATION
Mosman, Australia

ARCHITECT
Bates Smart

PIECE



FK-L 2/16



B-5x5

COLOURS



Rojo R05-05







PROJECT

VandCenter

LOCATION

Odense, Denmark

ARCHITECT

Jesper Thyge Brøgger

PIECE



FF-O 25/17

COLOURS



Blue Volga







PROJECT

The Knowledge Industry Center in Song-Do
Song-do BRC Smart Valley

LOCATION

Song-do, South Korea

ARCHITECT

Gunwon

PIECE



COLOURS



Naranja NA05-15



Rojo R25-25



Marrón BR2-08



Gris GR02-20



FAÇADE SYSTEMS

VENTILATED FAÇADE | FACHADA VENTILADA



tempio®[projects] Acavalley Kindergarten. Incheon, Korea

The following aspects can be highlighted as the main advantages of this building material:

Easy to mount on site. These are elements that are assembled on site "dry", that is, using mechanical anchoring and fixing systems only.

No maintenance costs over the years, as ambient conditions do not affect the ceramic pieces and rainwater is enough to keep them clean.

The individual tiles are very easily replaced in the unlikely event of a mishap.

Thanks to this system, the internal wall structure is protected from atmospheric agents. Cracking due to subsidence is completely avoided.

Energy savings range from 25% to 40%.

No thermal bridges.

Surface water condensation is totally eliminated. The presence of an air chamber facilitates the evacuation of water vapour from the inside, and favours the evaporation of any humidity due to filtration.

Excellent soundproofing both in exteriors and in pavilions, theatres, schools, etc.

Very convenient as a rehabilitation system for older buildings as the façade is easily installed over underlying structures.

Entre las principales ventajas de la utilización de este sistema constructivo destacamos los siguientes aspectos:

Fácil colocación en obra. Se trata de elementos ensamblados en obra "en seco", mediante aparatos de enganche y fijado de tipo mecánico.

Coste de mantenimiento nulo a lo largo de los años, ya que las condiciones externas no afectan a la pieza cerámica y el agua de lluvia es suficiente para mantenerla limpia.

Posibilidad de intervención sobre cada una de las piezas, siendo muy sencillo su reemplazo.

Protección de la estructura del muro de la acción de los agentes atmosféricos. Se evita que las grietas provocadas por movimientos de obra sean visibles.

Ahorro energético que oscila entre el 25% y 40%.

Eliminación de los puentes térmicos.

Eliminación del agua de condensación superficial.

La presencia de la cámara de aire facilita la evacuación del vapor de agua procedente del interior, favoreciendo la salida de la eventual humedad debida a filtraciones.

Es un excelente aislamiento acústico tanto en exteriores como en pabellones, teatros, colegios, etc.

Sistema muy conveniente en rehabilitaciones para renovar la estética del edificio ya que se coloca muy fácilmente sobre viejas estructuras.



DITE
EOTA
13/0166



TECHNICAL CHARACTERISTICS

CARACTERÍSTICAS TÉCNICAS



Customized designed substructure
Subestructura especialmente diseñada



Profiles with hollow chambers
Perfiles con cámaras huecas



Wide range of formats
Amplia gama de formatos



Glazed and natural colours
Colores naturales y esmaltados



Bending strength
Resistencia a la flexión

EN ISO 10545-4
>17 N / mm²



Impact strength
Resistencia al impacto

EN ISO 10545-5
✓



Water absorption
Absorción de agua

0,5 % <-< 4%
2% <-< 7%



Frost resistance
Resistencia a la helada

EN ISO 10545-12
✓



Thermal shock resistance
Resistencia al choque térmico

EN ISO 10545-9
✓



Dimensional tolerance
Tolerancia dimensional

EN ISO 10545-2
✓



Thermal expansion
Dilatación térmica

✓

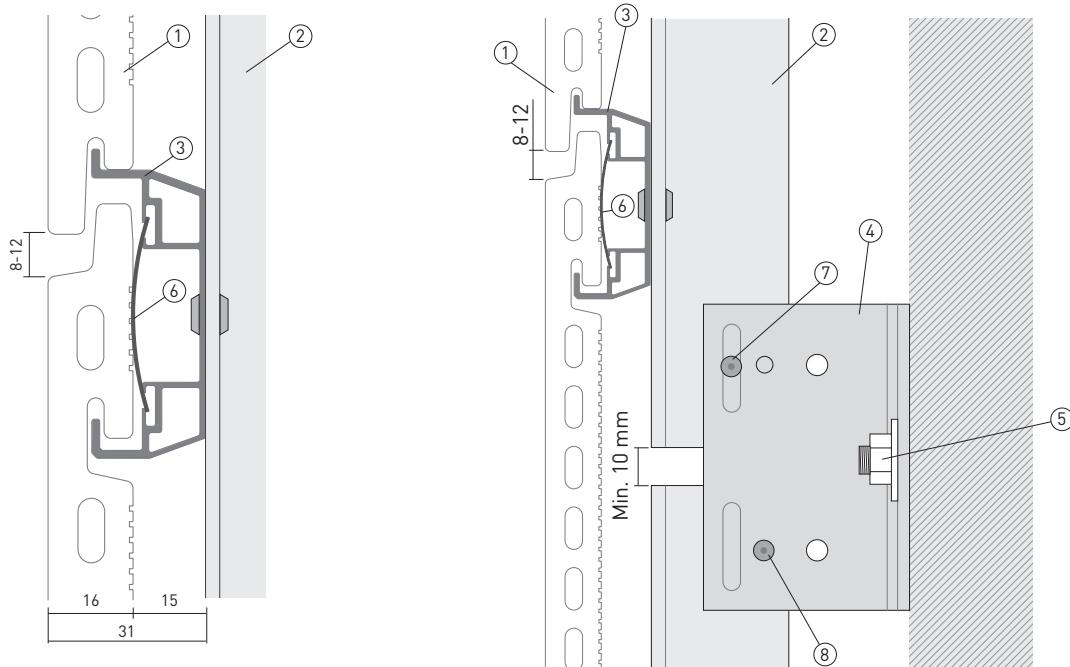


Download technical information at
Descarga de información técnica en

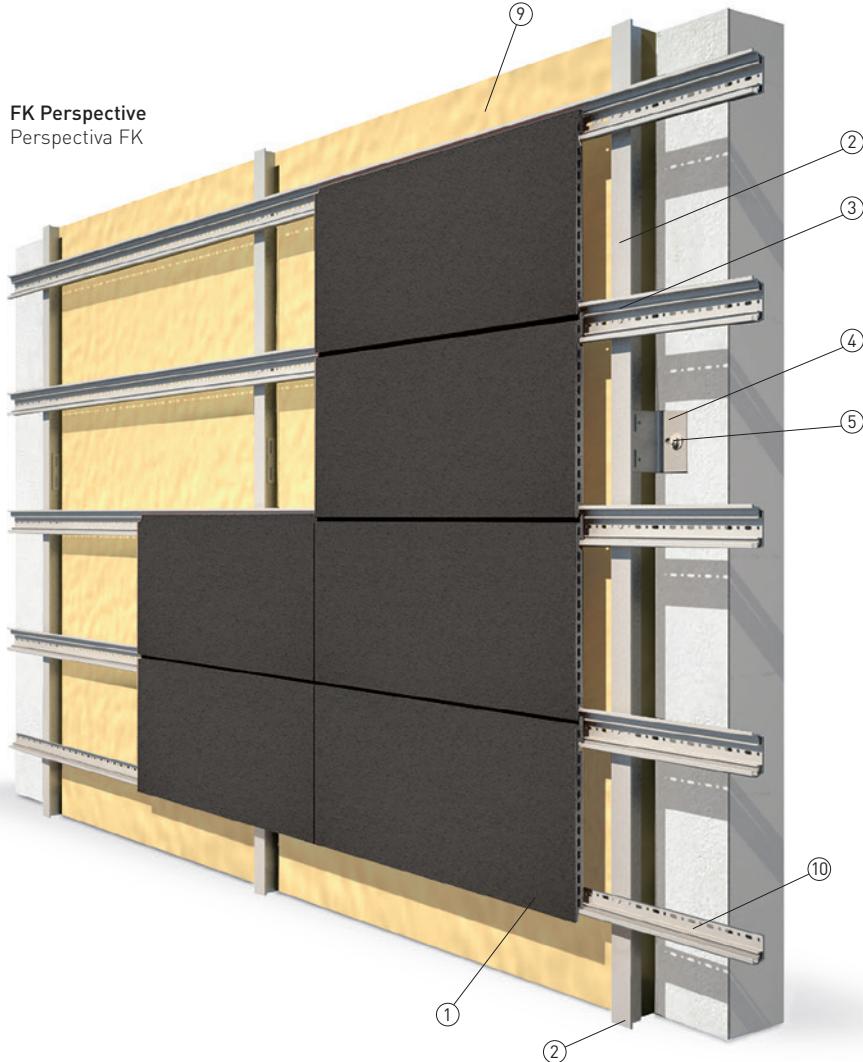
www.tempio.es

FK SYSTEM

Fixation detail between vertical profiles
Detalle de fijaciones entre perfiles verticales

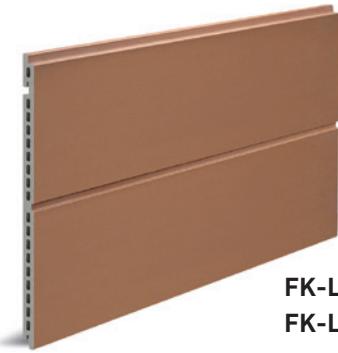


- 1_ Tempio tile
Pieza Tempio
- 2_ Vertical T profile
Perfil T vertical
- 3_ Horizontal profile
Perfil horizontal
- 4_ Bracket
Ménsula
- 5_ Anchorage
Anclaje
- 6_ Metal sheet
Chapa de metal
- 7_ Fixet to sliding point
Fijación corredera
- 8_ Fixed point
Fijación fija
- 9_ Insulating layer
Aislante
- 10_ Termination profile
Perfil de terminación





**FK-16
FK-20**



**FK-L 1/16
FK-L 1/20**



FK-1BA 5/16



FK-L 2/16



FK-L 3/16



FK-2B 5/16



FK-L 4/16



FK-O 8/20



FK-1BB 5/16



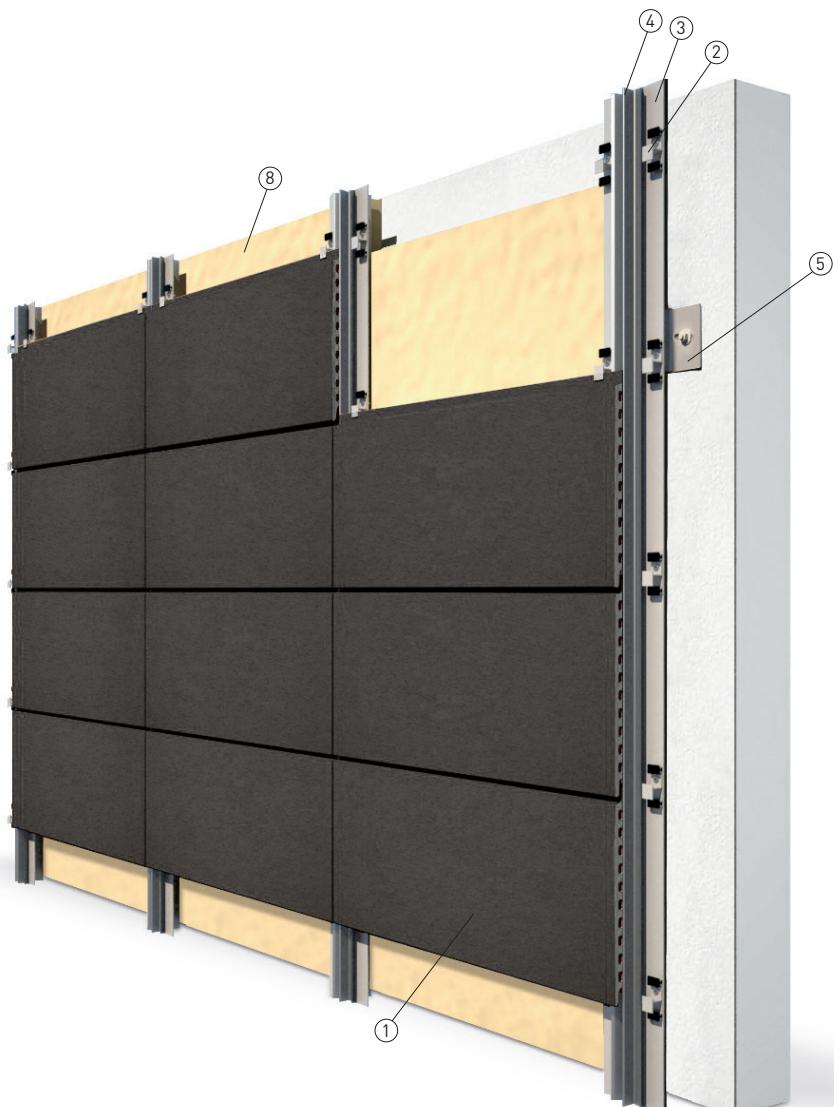
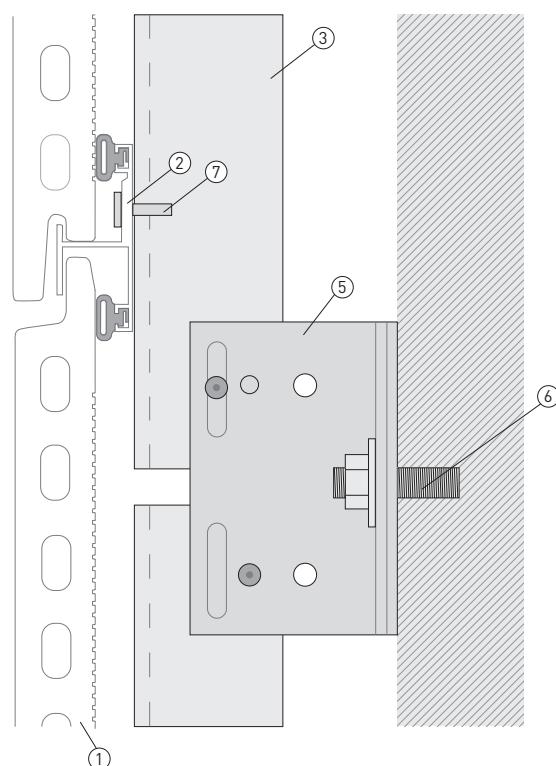
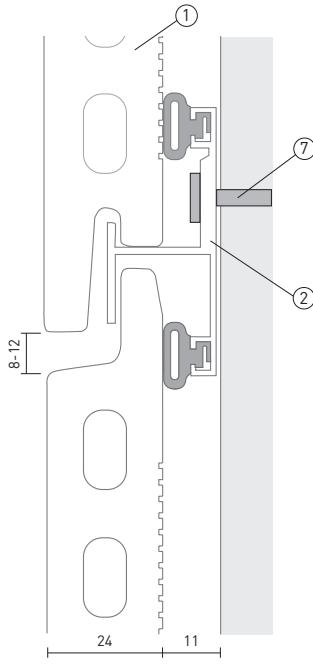
FK-L 59/16

SYSTEM PIECES / SISTEMA DE PIEZAS

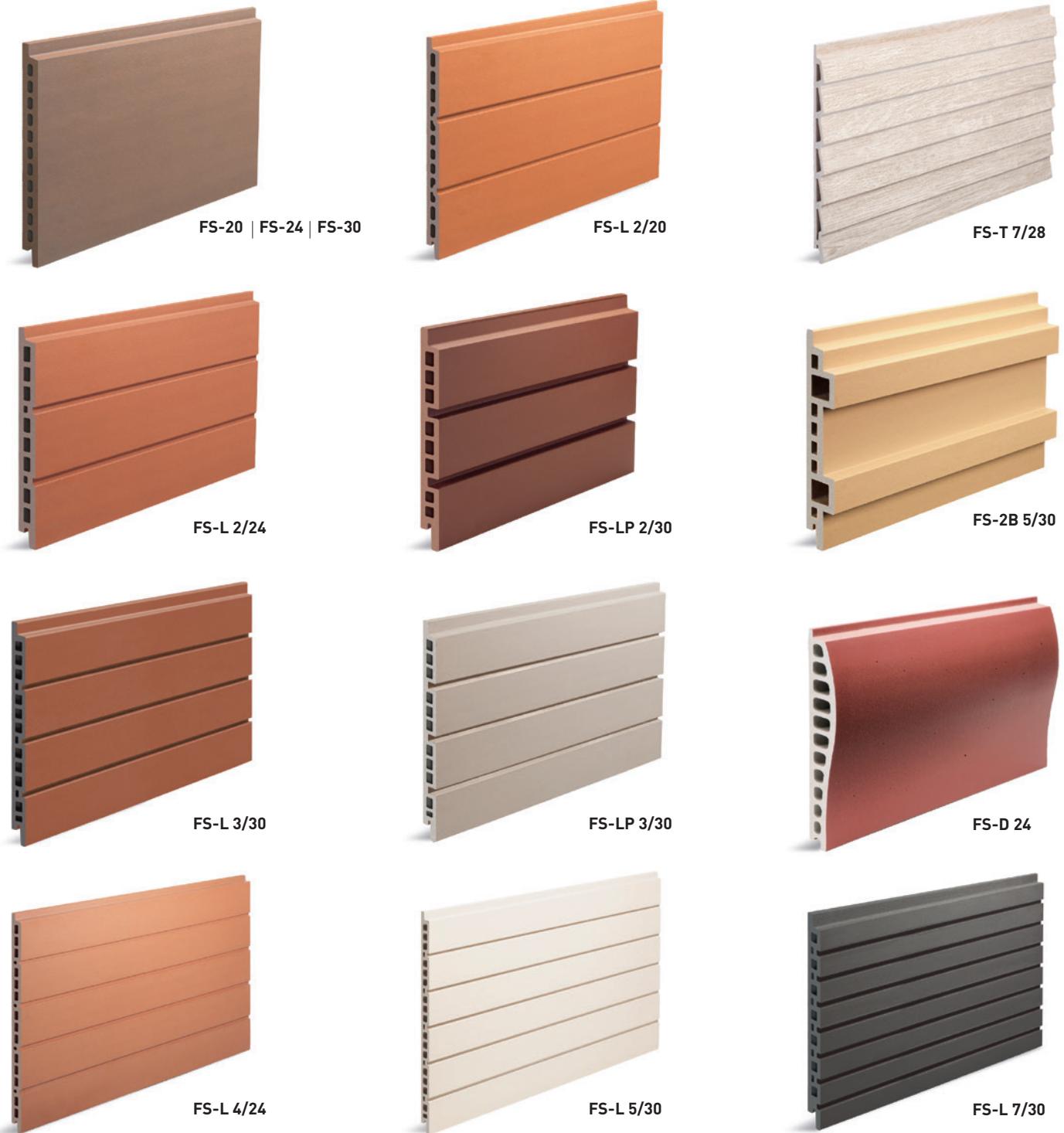
height module / inch alto módulo / mm	FK-16	FK-20	FK-L 1/16	FK-L 1/20	FK-L 2/16	FK-L 3/16	FK-L 4/16	FK-O 8/20	FK-L 59/16	FK-1BA 5/16	FK-1BB 5/16	FK-2B 5/16
200 - 7.87"	■	■	■						■			
250 - 9.84"	■											
280 - 11.02"	■											
300 - 11.81"	■	■	■		■		■	■		■	■	■
310 - 12.20"												
350 - 13.78"	■	■										
380 - 14.96"	■											
400 - 15.74"	■	■	■	■		■						
450 - 17.71"	■											
510 - 20.07"	■											
545 - 21.45"		■										
length piece / largo pieza	<1200mm	<1500mm	<1200mm	<1500mm	<1200mm	<1200mm	<1200mm	<1200mm	<1200mm	<1200mm	<1200mm	<1200mm
weight / peso - kg/m ²	28,5	33	28,5	33	28,5	27	28,5	30	28	30	30	32

FS SYSTEM

Fixation detail between vertical profiles
Detalle de fijaciones entre perfiles verticales



- 1_ Tempio tile
Pieza Tempio
- 2_ Clip
Grapa
- 3_ Main T profile
Perfil en T
- 4_ Vertical joint profile
Perfil vertical de junta
- 5_ Bracket
Ménsula
- 6_ Anchorage
Anclaje
- 7_ Self screwing
Tornillo autoroscante
- 8_ Insulating layer
Aislante



height module / inch alto módulo / mm	FS-20	FS-24	FS-30	FS-D 24	FS-L 2/20	FS-L 2/24	FS-L 3/30	FS-L 4/24	FS-L 5/30	FS-L 7/30	FS-LP 2/30	FS-LP 3/30	FS-2B 5/30	FS-T 7/28
200 - 7.87"	■	■	■											
225 - 8.86"	■													
250 - 9.84"	■	■	■											
280 - 11.02"	■	■												
300 - 11.81"	■	■	■	■	■	■					■		■	■
350 - 13.78"						■								
374 - 14.72"	■													
400 - 15.74"		■	■				■			■		■		
450 - 17.71"	■													
500 - 19.68"	■	■							■					
600 - 23.62"										■				
length piece / largo pieza	<1500mm	<1500mm	<1500mm	<1500mm	<1500mm	<1500mm	<1500mm	<1500mm	<1500mm	<1500mm	<1500mm	<1500mm	<1500mm	<1500mm
weight / peso - kg/m ²	33	42	48	38,5	32	39	45	40	45,5	44	42	42	52	37

FF SYSTEM



tempio®[projects] Dolcestone by Toyo Itto. Logroño, Spain.



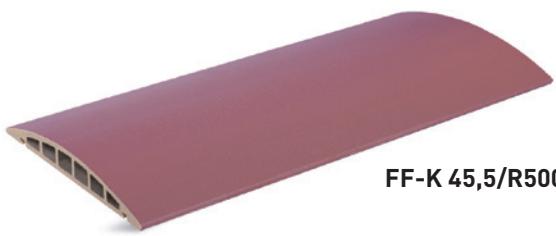
FF-0 25/17



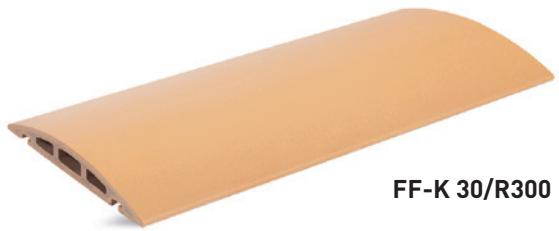
FF-L 2/20



FF-C 9/65



FF-K 45,5/R500



FF-K 30/R300



LAB ideas

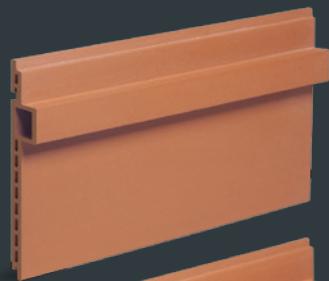
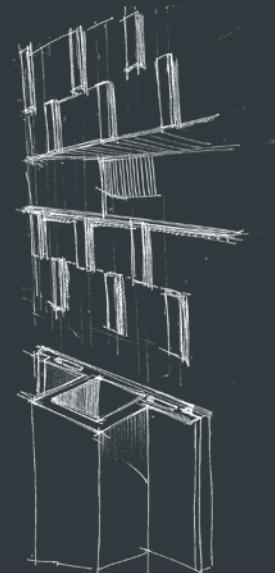
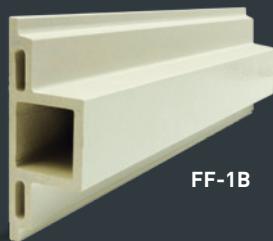
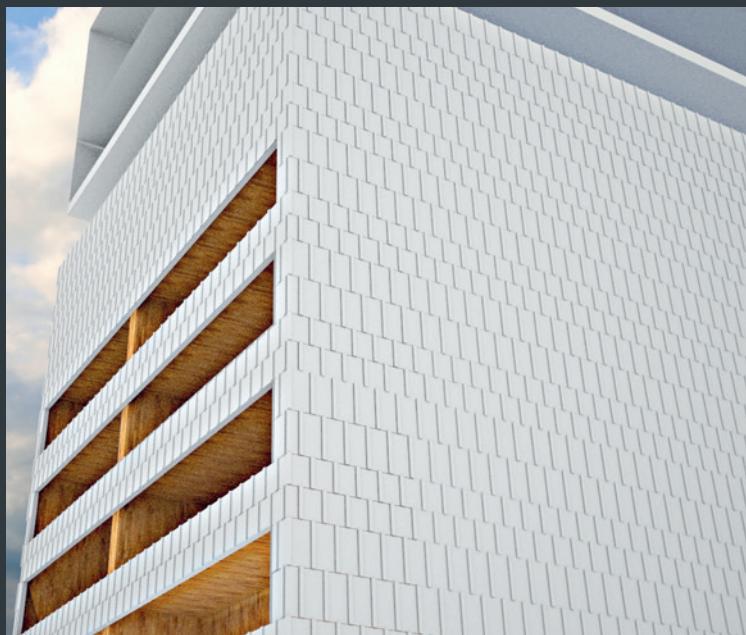
ARCHITECTS

ARCHITECTS. Department of aid
for development projects

Resources used by architects

ARQUITECTOS. Departamento de ayuda
para desarrollo de proyectos

Recursos para arquitectos



BAGUETTE

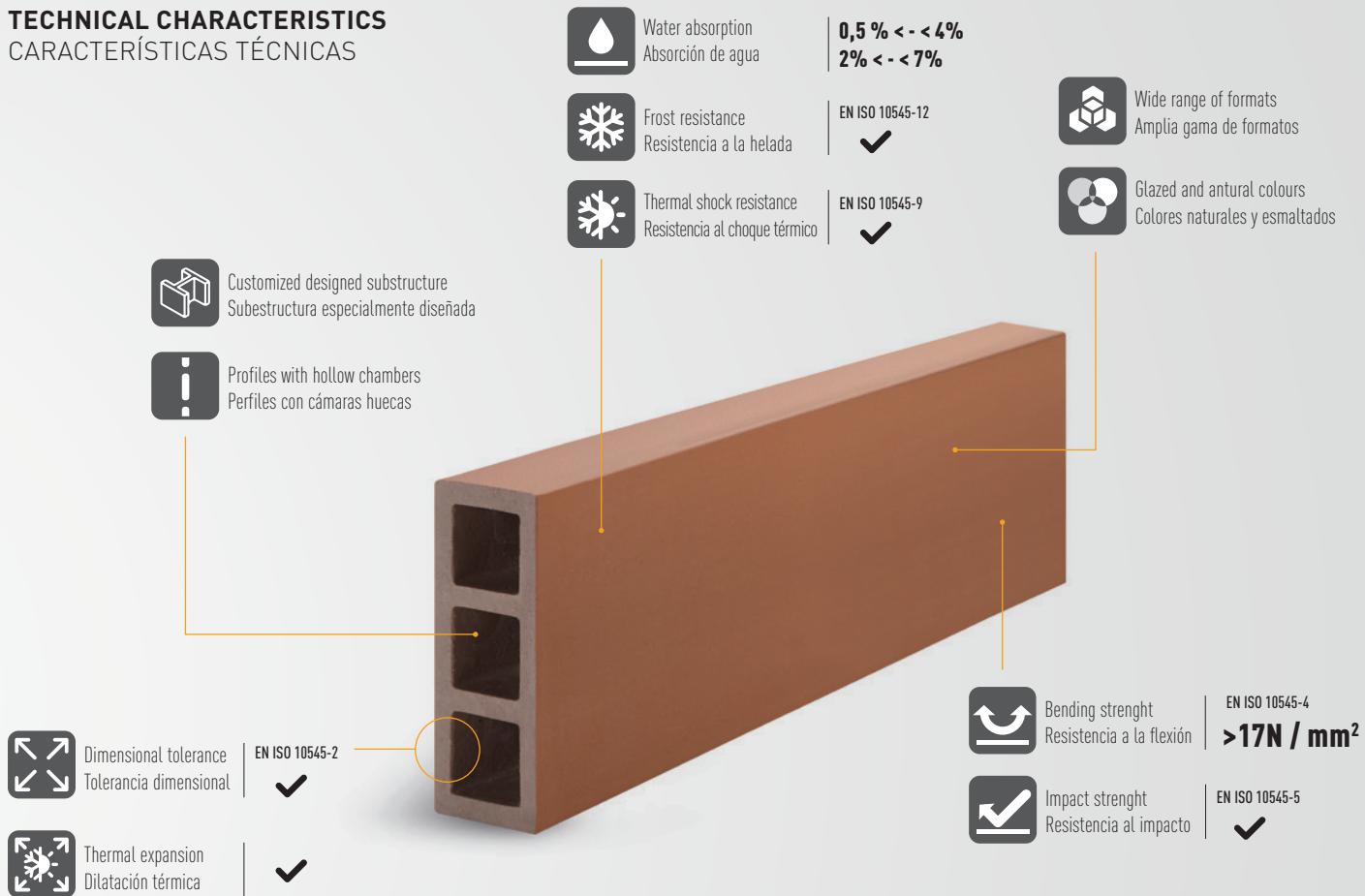
CERAMIC SUNCREEENS | SISTEMA DE LAMAS CERÁMICAS





TECHNICAL CHARACTERISTICS

CARACTERÍSTICAS TÉCNICAS



Solar shading.

Horizontal and vertical element orientation.

Suitable for any building size.

Venetian blind slats with Ceramics.

Window sill and wall copings.

Profiles with hollow chambers.

Customized designed substructure.

Wide variety of terracotta colours and glazed colours with gloss or matt finish. On request, other finishing colors can be produced.

Customized pieces.

INDOOR APPLICATION

Ambient separation.

Coating for interior walls and ceilings.

Ephemeral architecture.

Protección solar.

Orientación elemento horizontal y vertical.

Apto para cualquier tamaño del edificio.

Celosía con lamas de Cerámica.

Alfeizares de ventanas y coronación de paredes.

Perfiles con cámaras huecas.

Subestructura especialmente diseñada.

Gran variedad de colores naturales y esmaltados brillo o mate. También fabricamos colores bajo demanda.

A medida.

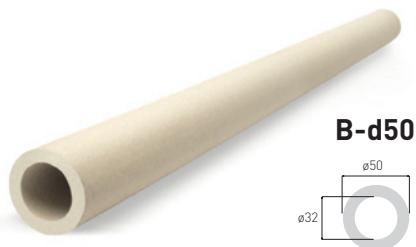
APLICACIÓN INTERIOR

Separación de ambientes.

Revestimiento de techos y paredes interiores.

Arquitectura efímera.

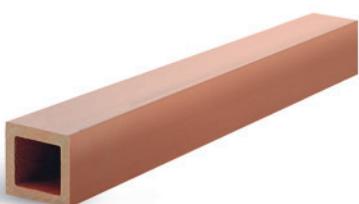
BAGUETTE SYSTEM



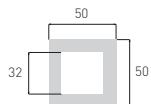
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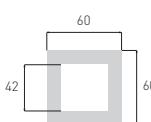
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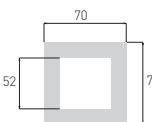
B-5x5



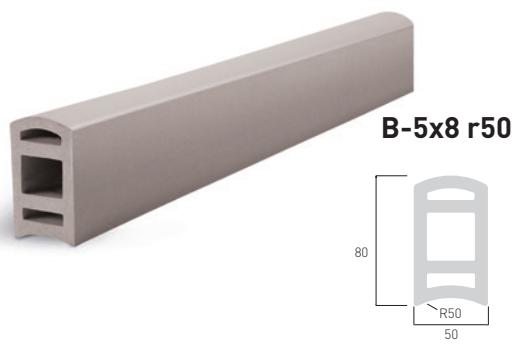
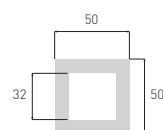
B-6x6



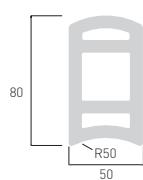
B-7x7



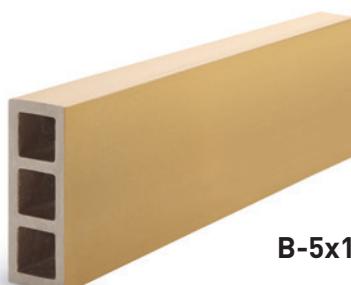
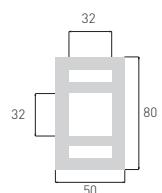
B-5x5 curvo



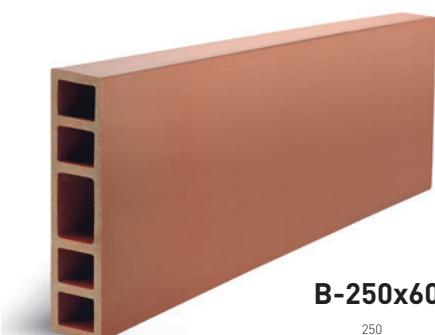
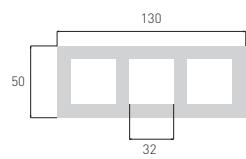
B-5x8 r50



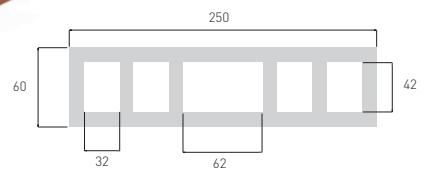
B-5x8



B-5x13

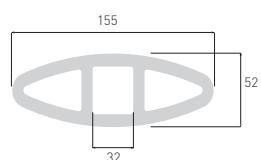
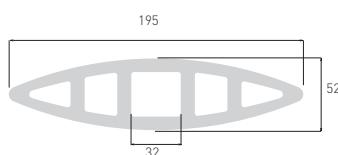


B-250x60





Size guide Guía de medidas

**BO-160x50****BO-200x50**

piece / pieza	length piece largo pieza	weight / peso kg/m lineal
B-d50	< 1800 mm	2,5
B-d110	< 1500 mm	2,5
B-5x5	< 1800 mm	3,5
B-6x6	< 1800 mm	4
B-7x7	< 1800 mm	5
B-5x5 curve	< 600 mm	3,5
B-5x8	< 1800 mm	5,5
B-5x8 r50	< 1800 mm	5,5
B-5x13	< 1800 mm	7,7
B-250X60	< 1800 mm	15
BO-160x50	< 1500 mm	7,6
BO-200x50	< 1500 mm	9,7
BO-300x62	< 1500 mm	17,5

Profiles with hollow chambers
Perfiles con cámaras huecas

Specially designed substructure
Subestructura especialmente diseñada

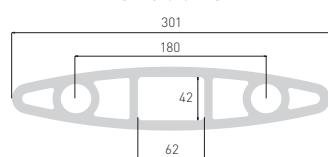


Special projects
Proyectos especiales

Made-to-measure on request
Fabricación a medida bajo demanda

Special Cuts
Cortes especiales

Colour development for projects
Desarrollo de colores especiales
para proyectos

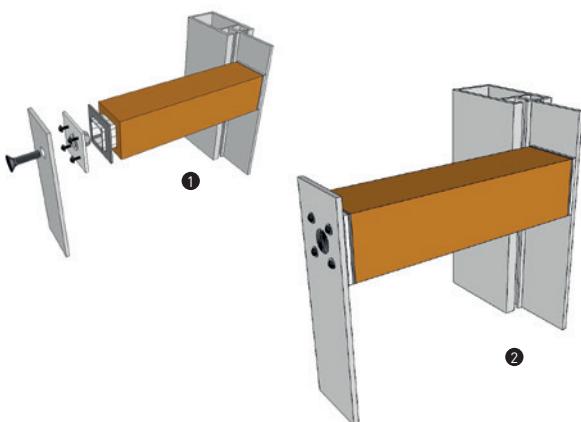
**BO-300x62**



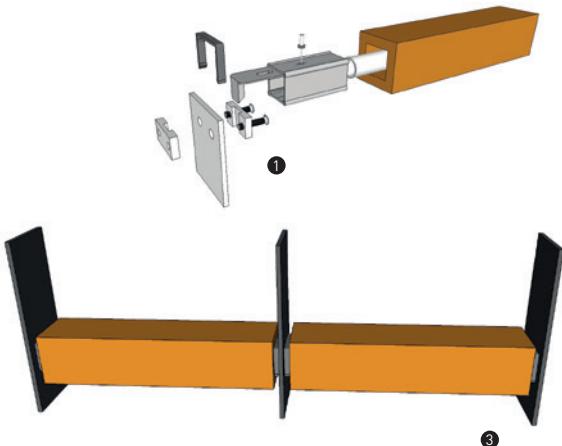
Specially designed substructure Subestructura especialmente diseñada

HORIZONTAL SYSTEMS

ANCHOR PLATE

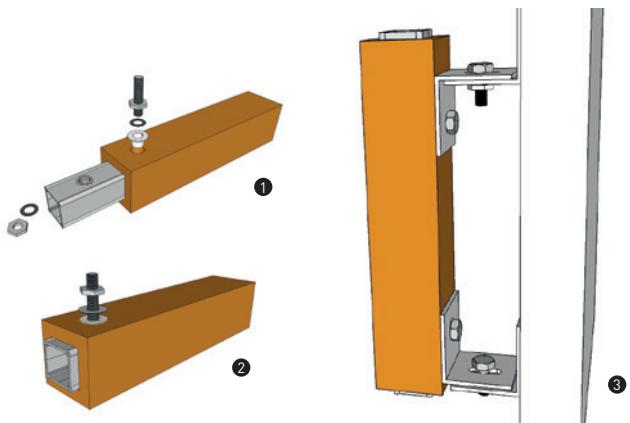


STANDARD

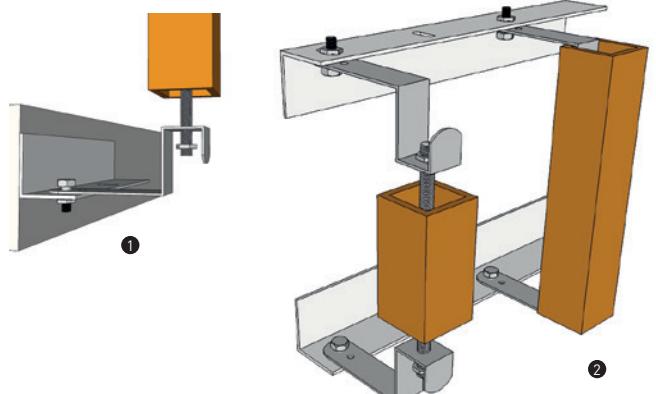


VERTICAL SYSTEMS

POP NUT

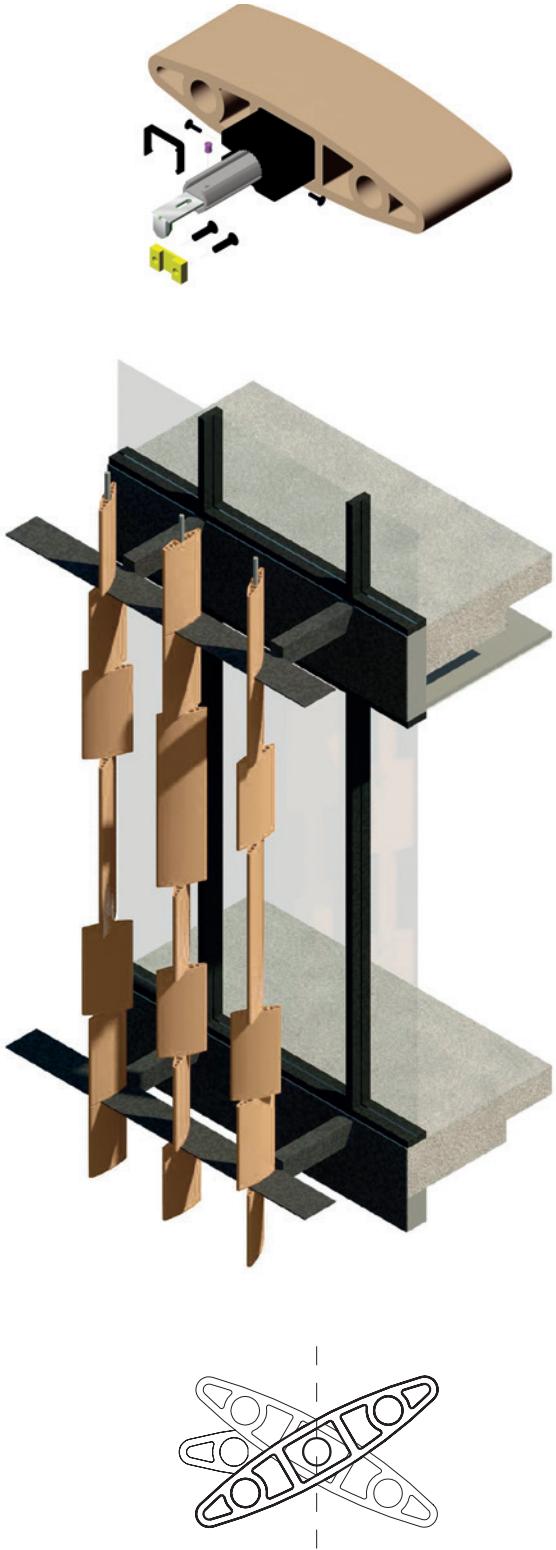


HOOK

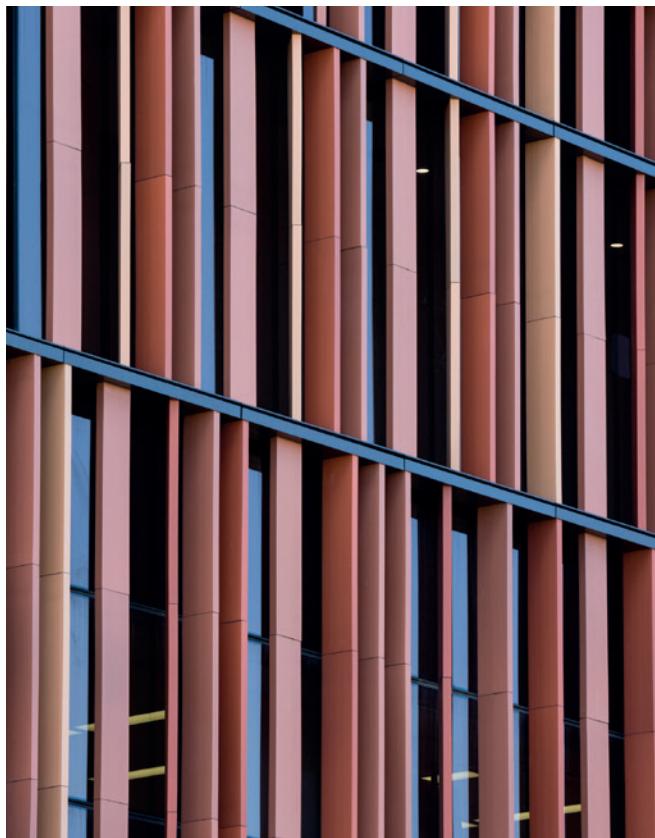


Ceramic blind slats on façade
Celosía con lamas de cerámica

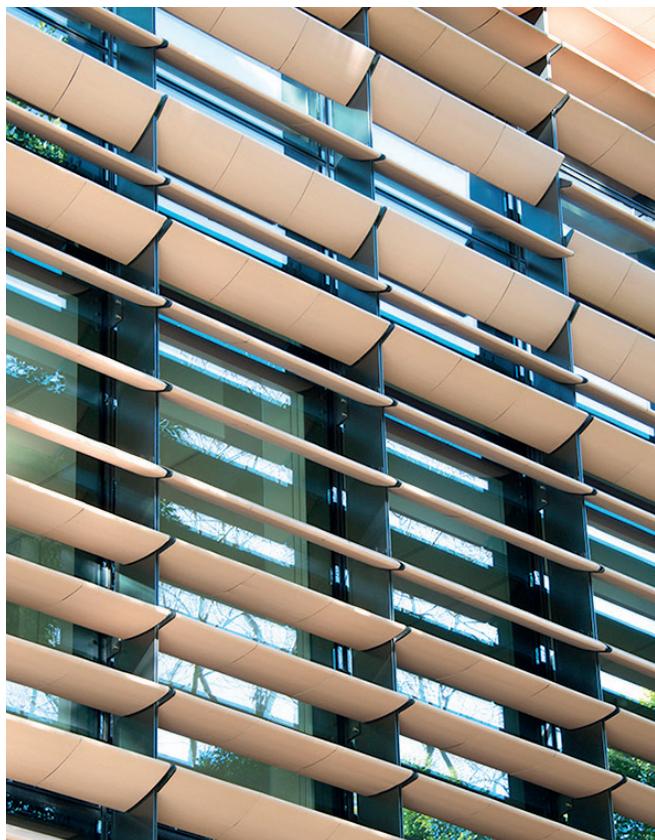
SWING SYSTEMS



VERTICAL



HORIZONTAL SYSTEM



BODY COLOURED
PASTA COLORADA

NATURAL



MAT ENAMEL
ESMALTE MATE



SATIN ENAMEL
ESMALTE SATINADO



GLOSS ENAMEL
ESMALTADE BRILLO







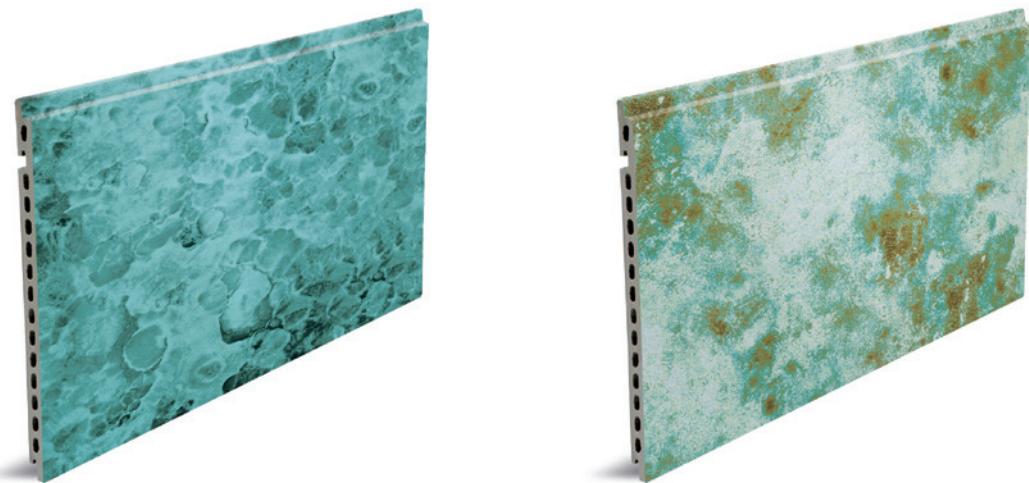
Colour development
Desarrollo del color

RAL

NCS
Natural Color System®

PANTONE®

COLOUR
SCAN



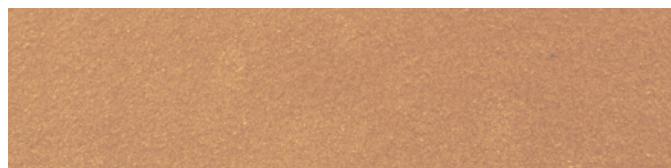
FLAMED FINISH ACABADO FLAMEADO

BODY COLOURED / PASTA COLOREADA

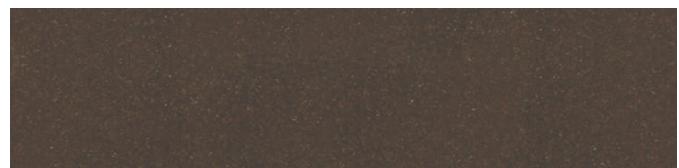
Blanco W00-20	Blanco W2-07	Amarillo Y00-05	Amarillo Y125-15	Amarillo Y05-02
Naranja NA05-05	Naranja NA05-15	Rojo R25-19	Rojo R05-05	Rojo R25-25
Rojo R15-10	Marrón BR2-08	Gris GR1-10	Gris GR02-20	Negro B5-10

NATURAL

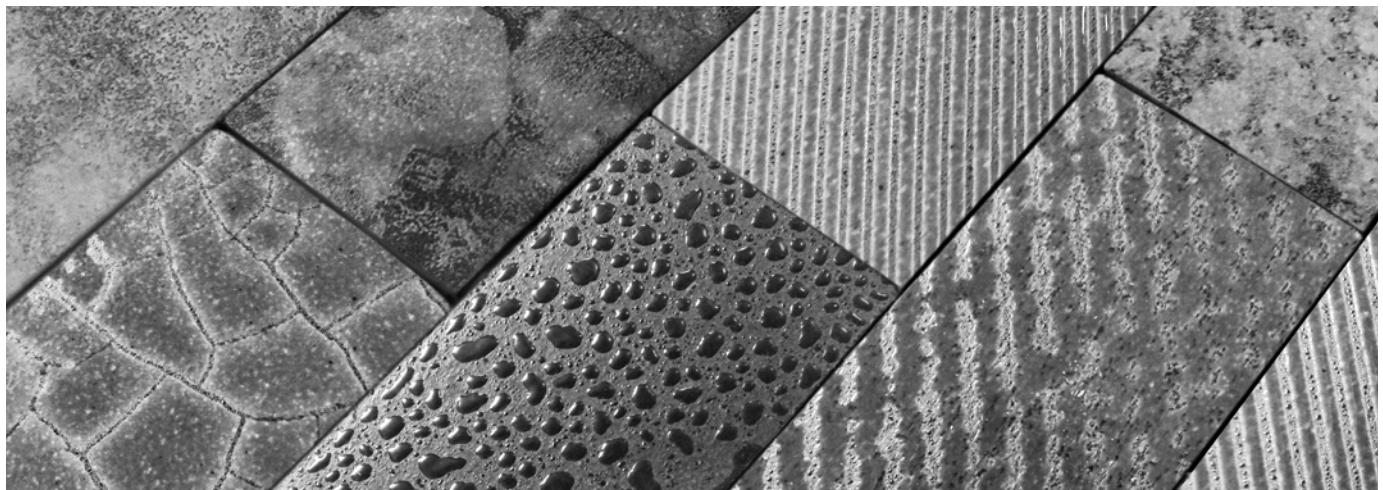
METALLIC ENAMEL ESMALTADO METÁLICO



Gold EMT05



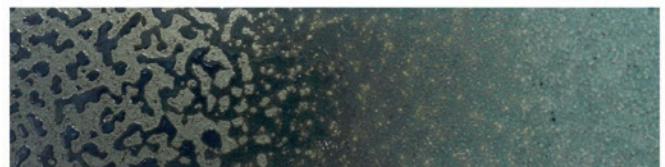
Metal EMT02



GLOSS ENAMEL WITH TEXTURE ESMALTADO BRILLO CON TEXTURA



Craquelado Desgastado DE06



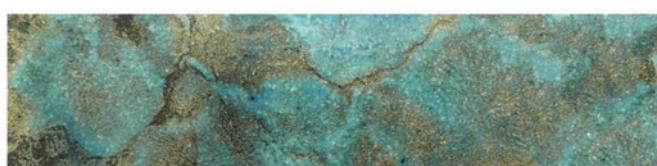
Degrado-1 DE07



Craquelado DE03



Degrado-2 DE08



Mercurizado DE01



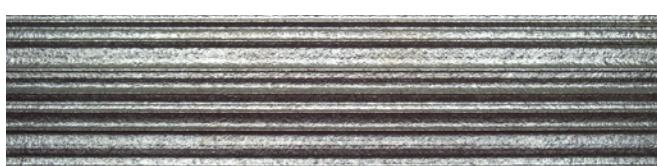
Ruido DE02



Desgastado DE04



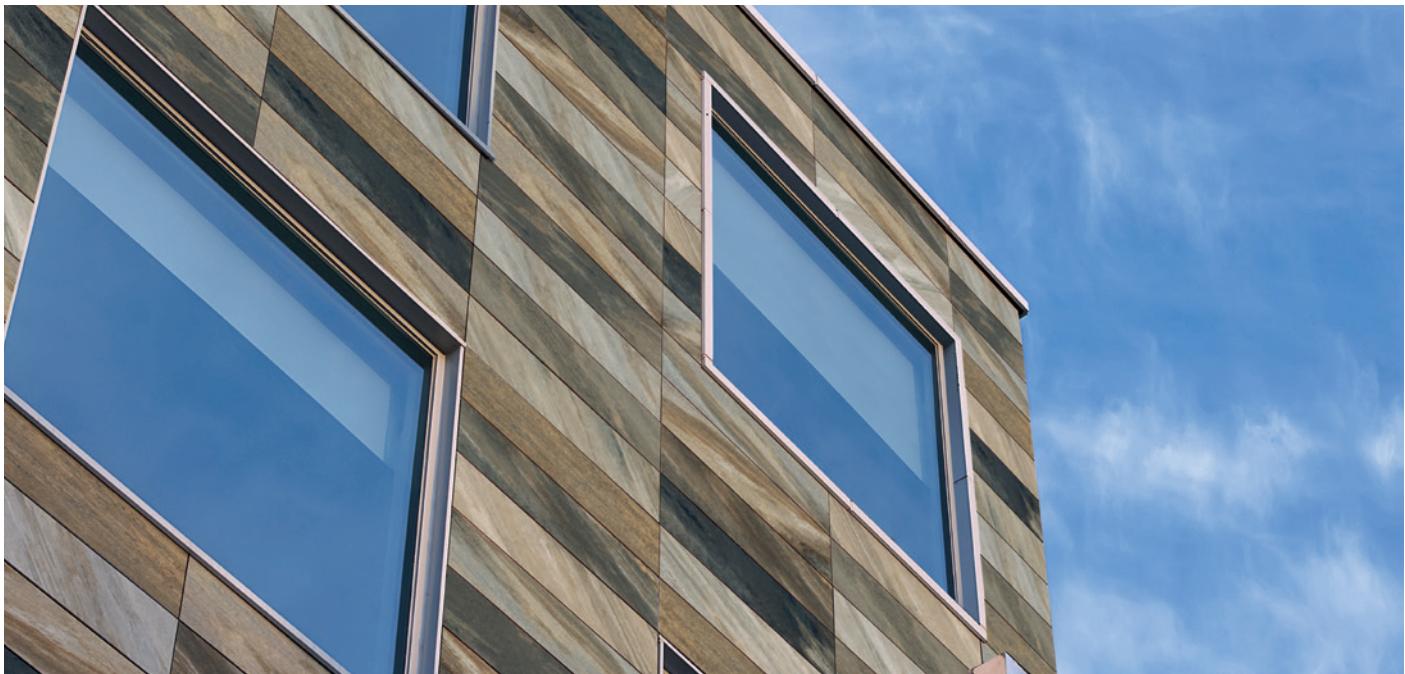
Líneas Ruido DE05



Metallic DE09



Opalum DE10



EXTREME DESIGN

New design possibilities for façade: infinite designs, easily adaptable, versatile & customize projects.

Nuevas posibilidades en diseño para fachada: diseños infinitos, fácilmente adaptable, proyectos personalizados y versátiles.



Rainforest Blanco  Wood Madera



Rainforest Musgo  Wood Madera



Woods Industrial  Wood Madera



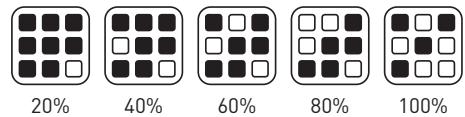
Woods Nordic  Wood Madera



Rainforest Nogal  Wood Madera

Aesthetic classification and shade variations
Clasificación estética y destonificación

*Colours may suffer variations in tone
* Los colores pueden sufrir variaciones de tonalidad



FK-L 1/16



FF-L 2/20



FK-L 2/16



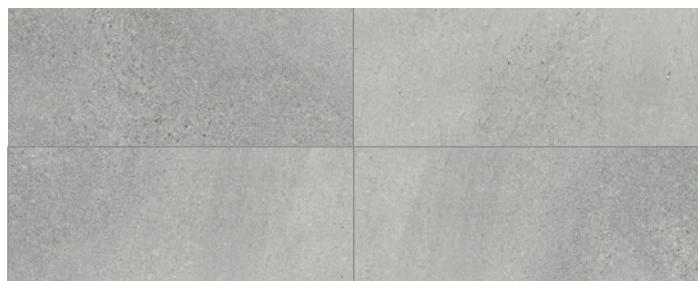
Stromboli Light Stone Piedra



Canyon Cal Stone Piedra



Calacatta Grey Stone Piedra



Stromboli Silver Stone Piedra



Sea Rock Caramel Stone Piedra



Canyon Creme Stone Piedra



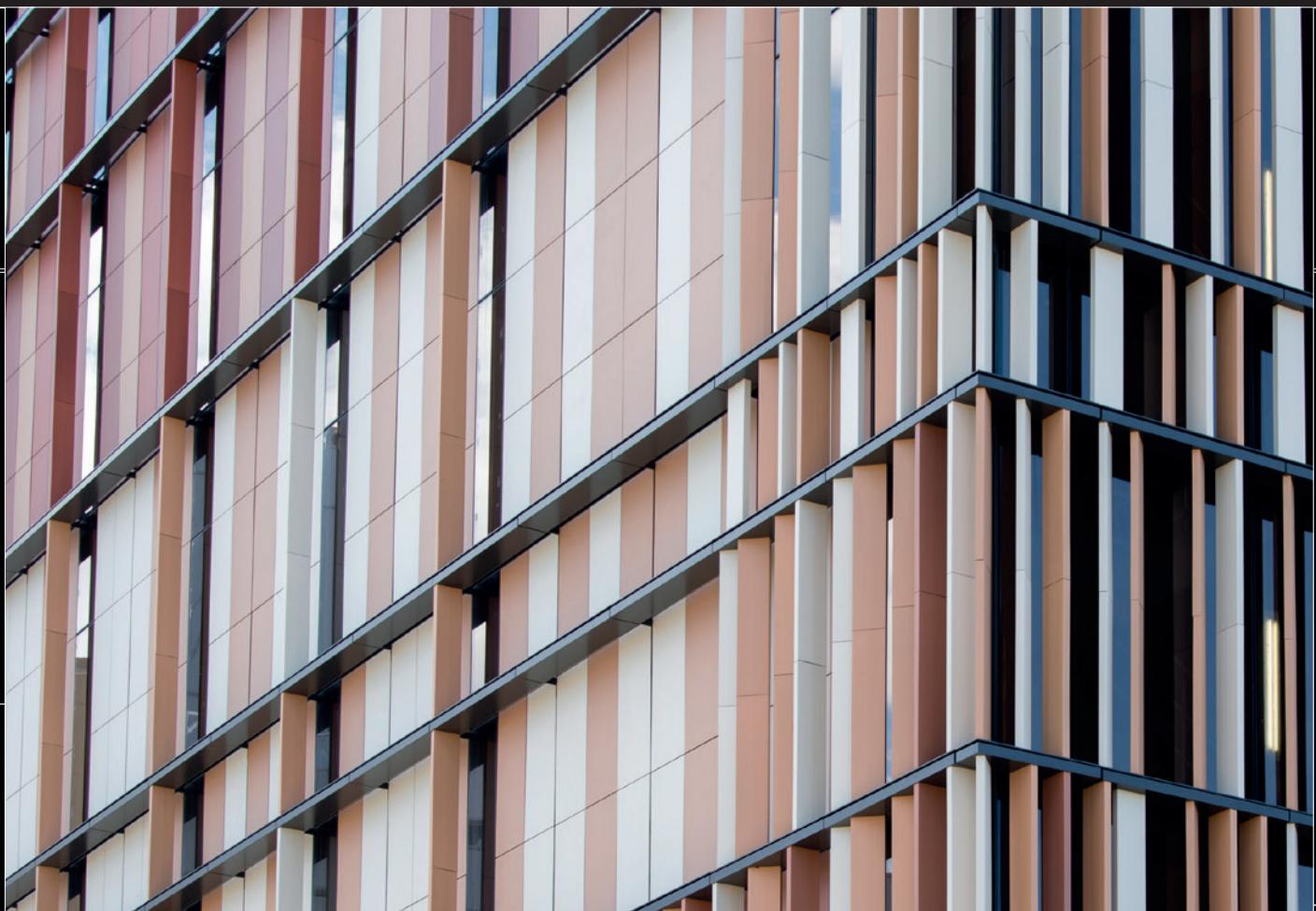
Anthracite Stone Piedra



Canyon Mix Stone Piedra

tempio®

VENTILATED FAÇADES
FACHADAS VENTILADAS



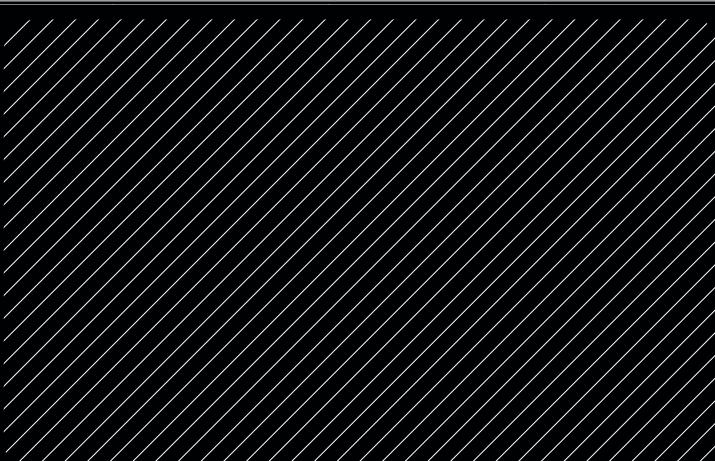
EDITION - FEB'18

Mayor tempio®

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