Balustrade Catalogue

ENVIRON™
METAL DESIGNS

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About Us

Environ Metal Designs is a metal fabricator specialised in contemporary and functional architectural producs made for residential and commercial projects.

Based in Melbourne, we are a team of experienced metal fabricators, engineers, and technicians working their best to provide high-quality and custom aluminium products made for construction professionals working on high-profile projects.

Why choose our balustrades?

Designed for Builders, made for homes

Our Balustrades are lightweight and can be adapted to various building site environments. They comply with Australian safety standards and can be easily installed using established construction techniques. We consider both practical and architectural requirements when creating products for high-profile projects.

Quality product and services

Our team takes pride in delivering products and services that not only meet but exceed our customers' expectations. We continuously work towards improving and innovating our products to ensure that our customers receive the best product quality and technical advice possible.

Easy installation backed by on-site support

Installing our balustrades is easy even for those with limited construction experience, thanks to our detailed site installation map and user-friendly components. And if you encounter any difficulties during the installation process, our on-site support and guidance services are readily available to assist your team.

Collaboration

Our core principles are centered around fostering a culture of progress and collaboration. We encourage our team to think outside of the box, explore new ideas, and constantly challenge themselves to come up with practical solutions that will benefit our clients and our community.

Warranty

You can rely on a 5-year Warranty for our aluminium products. Everything is sourced and made in Australia. That means we will be right here if you ever need us.

Balustrade Guide

Create your custom balustrade

In this catalogue, you will find adaptable and customisable balustrades solutions that are easy to configure and fit various building environments. Here you have the flexibility to configure the ideal balustrade for your project.

Follow the steps below to configure your balustrade design

1. Choose a fixing solution that is most compatible with the construction environment and architectural specifications of the building and balustrade
2. Define assembly options and panel quantities
3. Choose a cladding design OR customise one for your project
4. Finally, select a type of frame that can accommodate steps 1,2,3

How to order my balustrade

Fill out our Balustrade enquiry form with your details and product requirements here.

Fixings

Balustrade Fixing

Our fixings provide easy solutions for attaching your balustrade panel to your balustrade building environment.

You can browse through a range of fixing options, ranging from traditional base plates to modern designs, and select one that best suits your project.

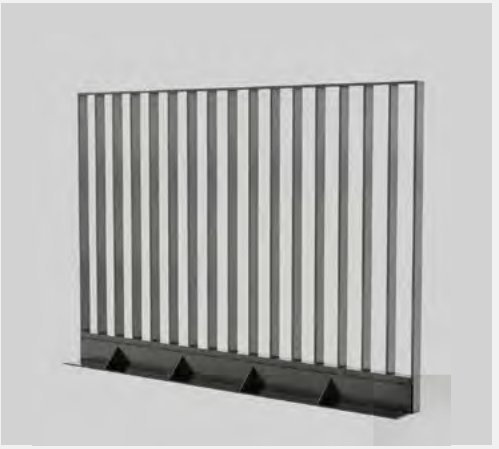
TOP-SPA

TOP-MOUNTED with Spacers (TOP-SPA)

TOP-NGA

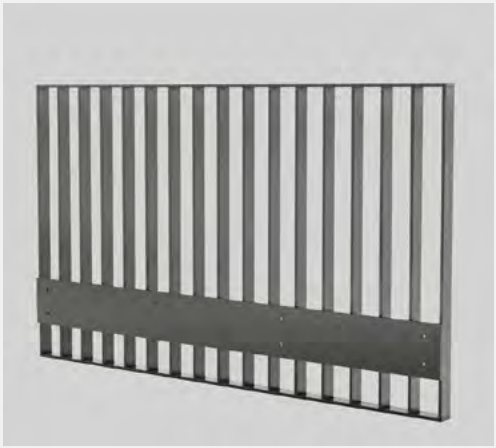
TOP-MOUNTED No Gap (TOP-NGA)

TOP-TIL



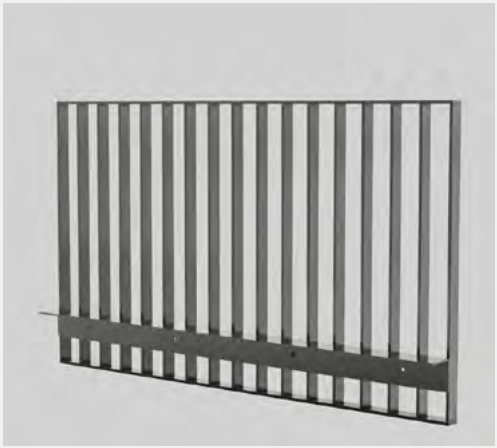
TOP-MOUNTED for tile pod (TOP-TIL)

FAC-PLA



FACE-MOUNTED 160x10mm Plate (FAC-PLA)

FAC-ANG



FACE-MOUNTED 100x100x6mmm Angle (FAC-ANG)

WAL-MOU

WALL-MOUNTED (WAL-MOU)

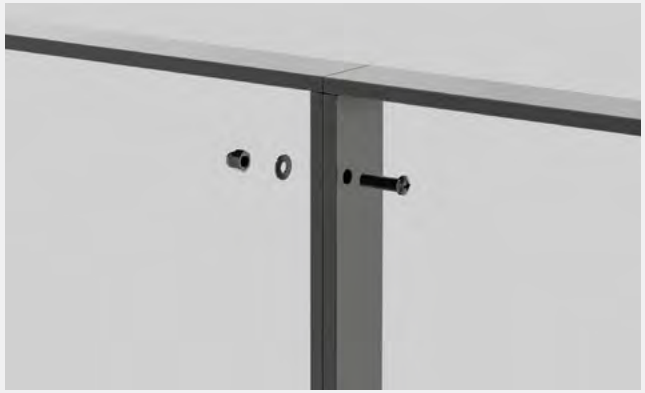
BAS-PLA

BASE PLATE (BAS-PLA)

Panels Assembly

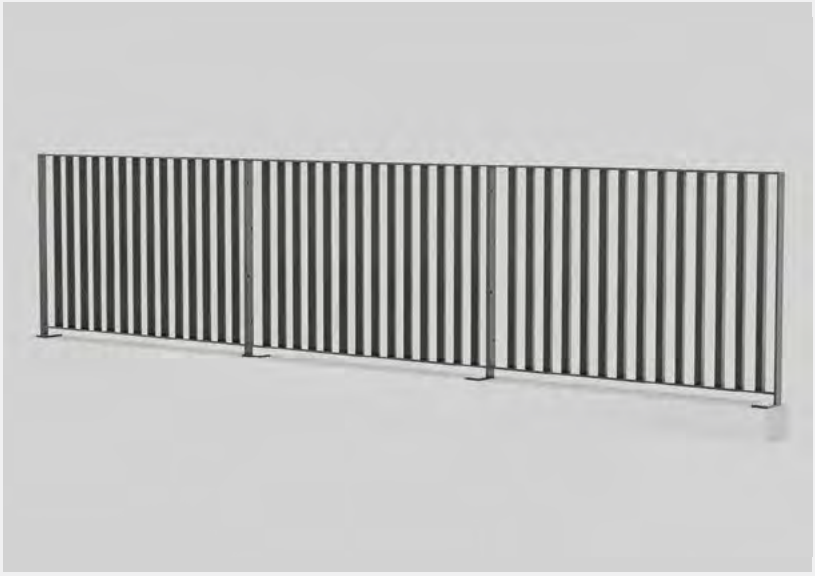
Balustrade Panel Assembly

Balustrade panels can be positioned individually and freely, multiple with gaps between each panel, or they can be connected to create a continuous flow. Explore the options to create your custom and unique balustrade configuration.



No Gap assembly screw detail

No Gap assembly detail 1



Base plate assembly sequence

No Gap assembly sequence

With Gap assembly sequence

Cladding Designs

Balustrade Cladding Design

You have the option to either customize or select from the cladding designs listed below. Our claddings are crafted for durability and safety and are designed to complement the architectural elements of most buildings. They are compatible with your selected fixing, assembly, and frame types.

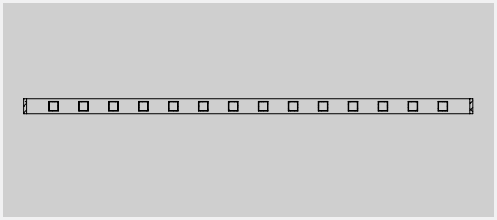
Cladding position available:
60mm, 80mm, 100mm, 120mm

Cladding position available:
(Built inside frame/rail) Centered, Flush to front, and Flush to back

Abreviations:
RHS: Rectangular Hollow Section
SHS: Square Hollow Section

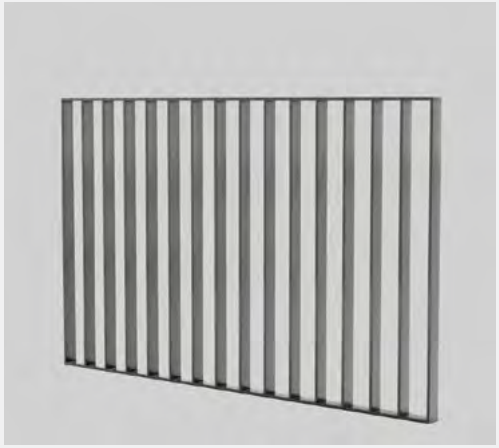
BATTEN

BATTEN 32X32X3MM SHS

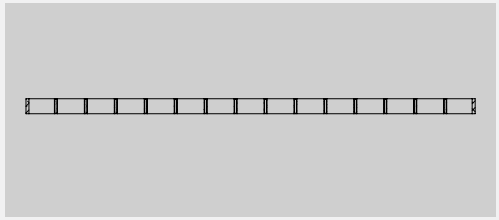


Top View

BLADE



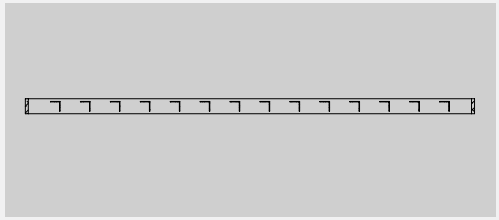
BLADE 50X10MM RHS



Top View

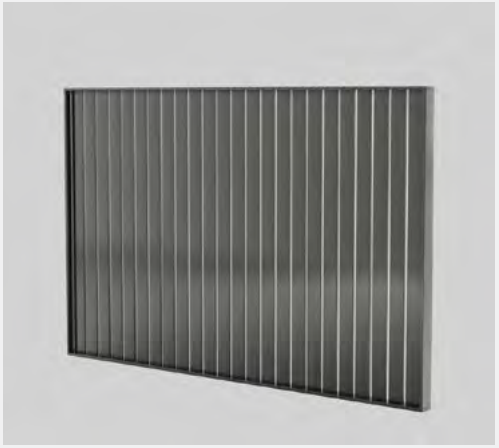
ANGLE

ANGLE 32X32X3MM

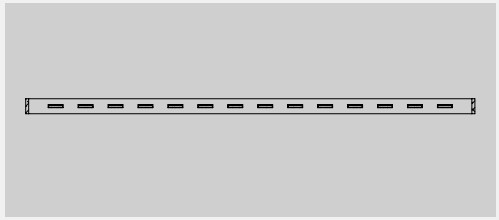


Top View

SLAT



SLAT 50X10MM RHS



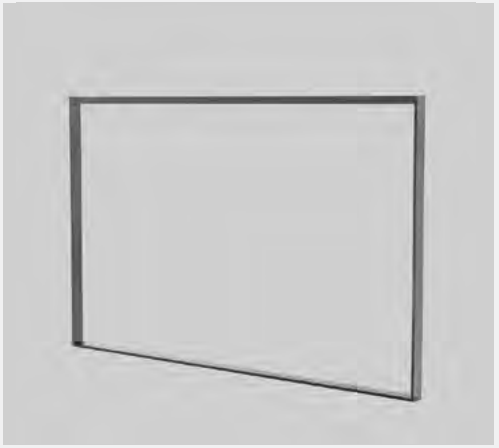
Top View

Frame Designs

Balustrade Frame Design

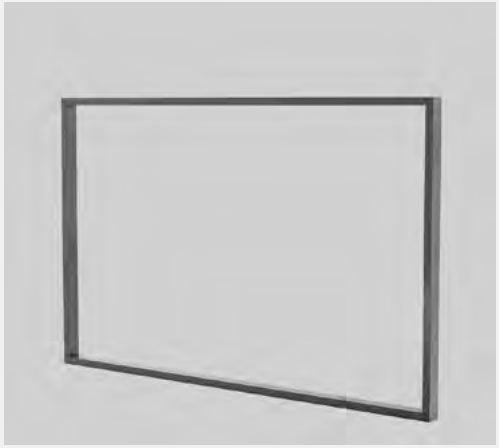
Our frames are built to last, thanks to reinforced welds that create a robust and dependable structure. They seamlessly integrate with our panel fixings and connect effortlessly with other panels. Environ's frames are compatible with both our standard and customised cladding designs.

FBTR



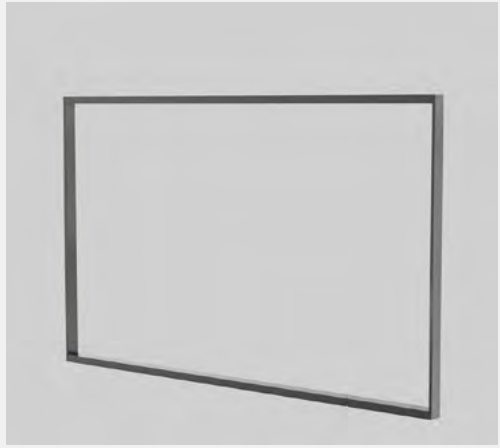
FBTR - Flat Bar frame with RHS Top Rail

HSFF



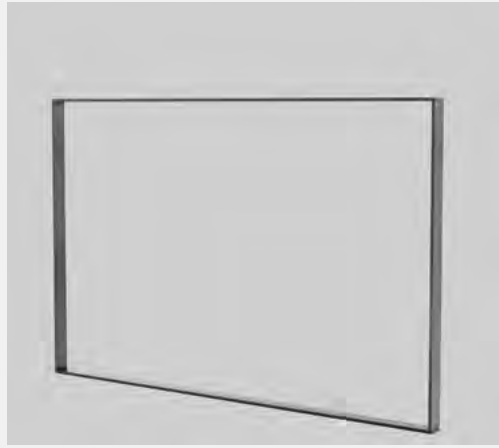
HSFF - RHS Full Frame

HSBU



HSBU - RHS Top & Bottom Rails. Flat Bar Uprights

FBFF



FBFF - Flat Bar Full Frame

Specifications

Balustrade specifications

Find details about our balustrade construction, functionality, applicability, and design to help you decide which balustrade configuration is ideal for your project.

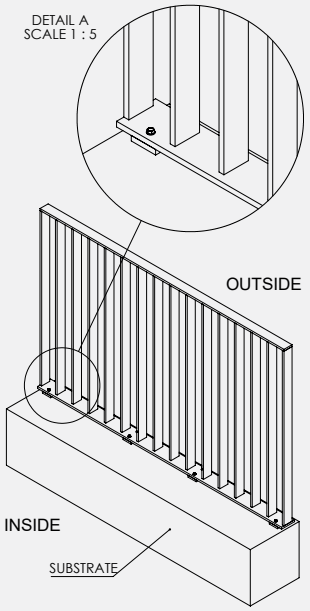
TOP-SPA

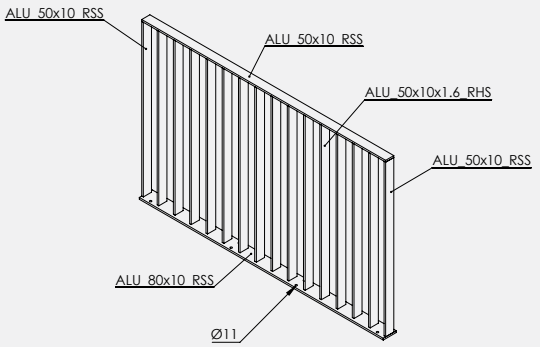
TOP-MOUNTED with Spacers

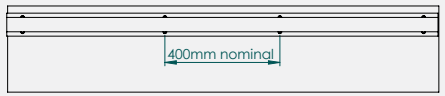
Clean and modern. This fixing solution complements the architectural elements of most buildings. Spacers allow for a subtle gap under panels and bring functionality to the design by providing effective water drainage.

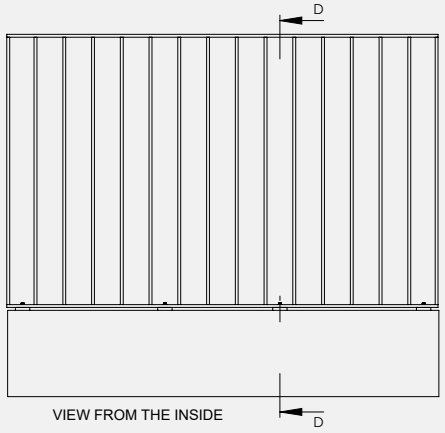
		BLADE 50x10mm RHS		SLATS 50x10mm RHS		ANGLE 32x32x3mm		BATTEN 32x32x3mm SHS	
CENTERS MM	CLAD POSITION (inside rail)	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable
100	FLUSH to BACK					68	✓		
	CENTERED	90	✓			68	✓		
	FLUSH to FRONT			50	✓	68	✓		
120	FLUSH to BACK					88	✓	88	✓
	CENTERED	110	✓			88	✓	88	✓
	FLUSH to FRONT			70	✓	88	✓	88	✓

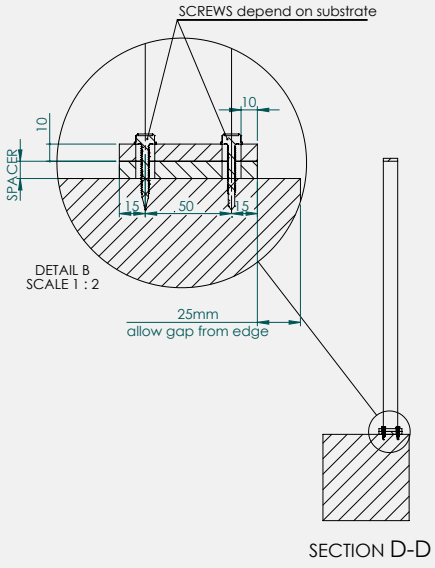
Material	Aluminium grade 6061
Product construction	MIG welding
Anchor/Fasteners	Depend on substrate
Panel width range	500mm to 1300mm
Panel height range	1000mm to 1300mm from final floor level
Cladding position	Suitable for any cladding position
Frame options	Available for Flat Bar Full Frame and Flat Bar Fame with RHS Top Rail
Assembly options	Available for all assembly options
Finishing	Powder coated



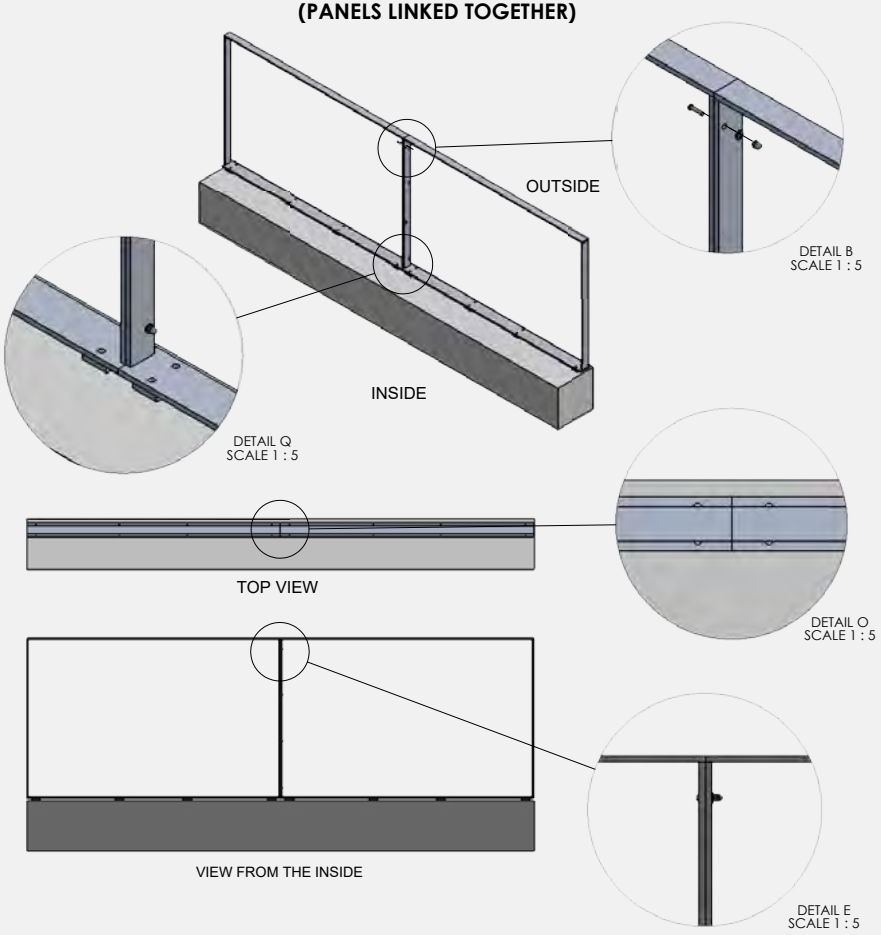




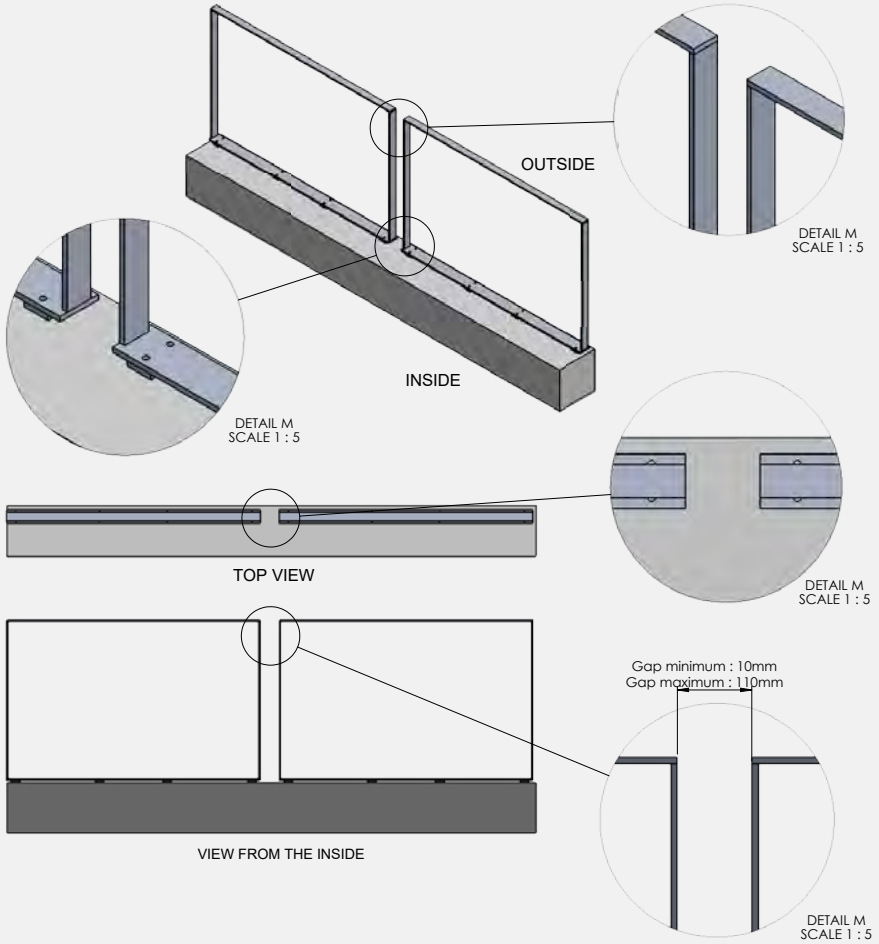




NO GAP BETWEEN PANELS
(PANELS LINKED TOGETHER)



WITH GAP BETWEEN PANELS



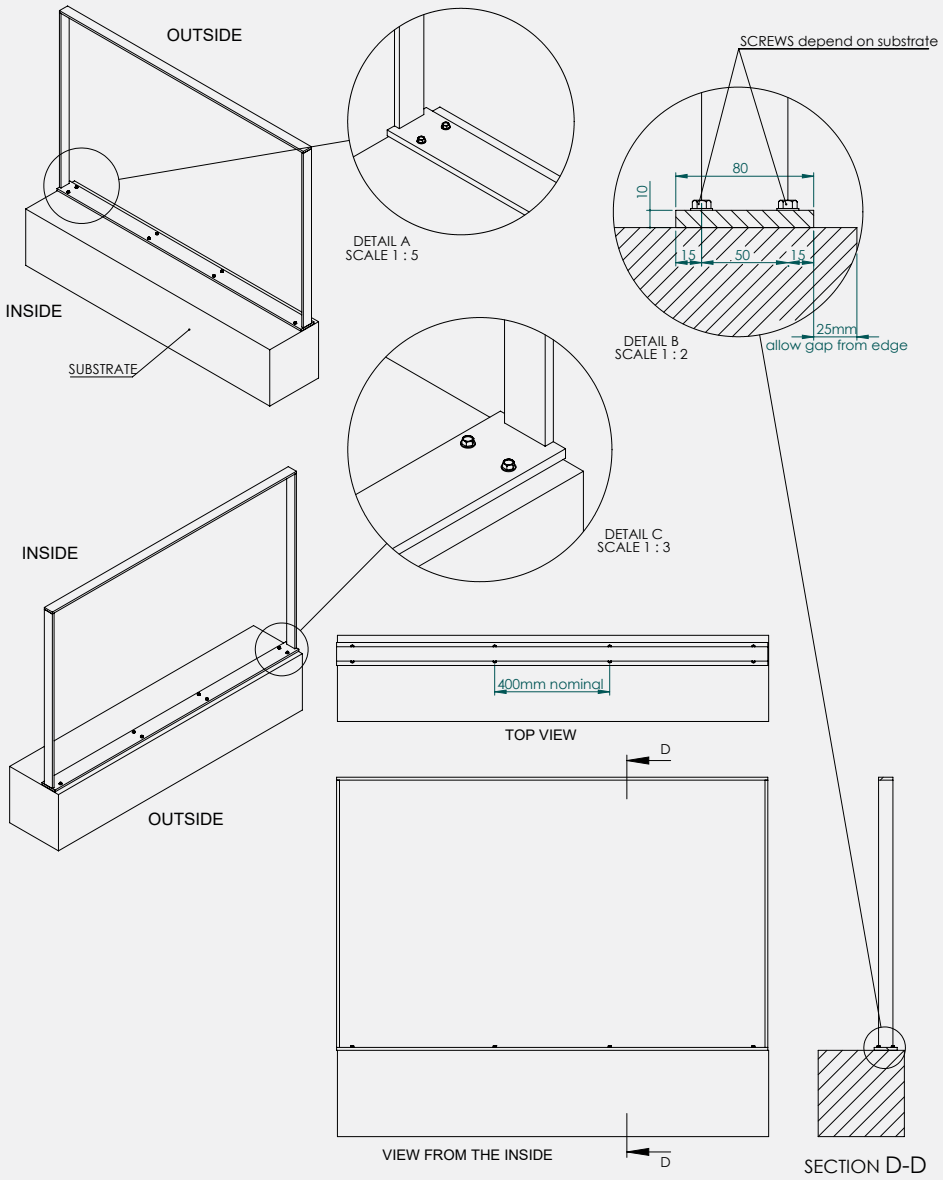
TOP-NGA

TOP-MOUNTED No Gap

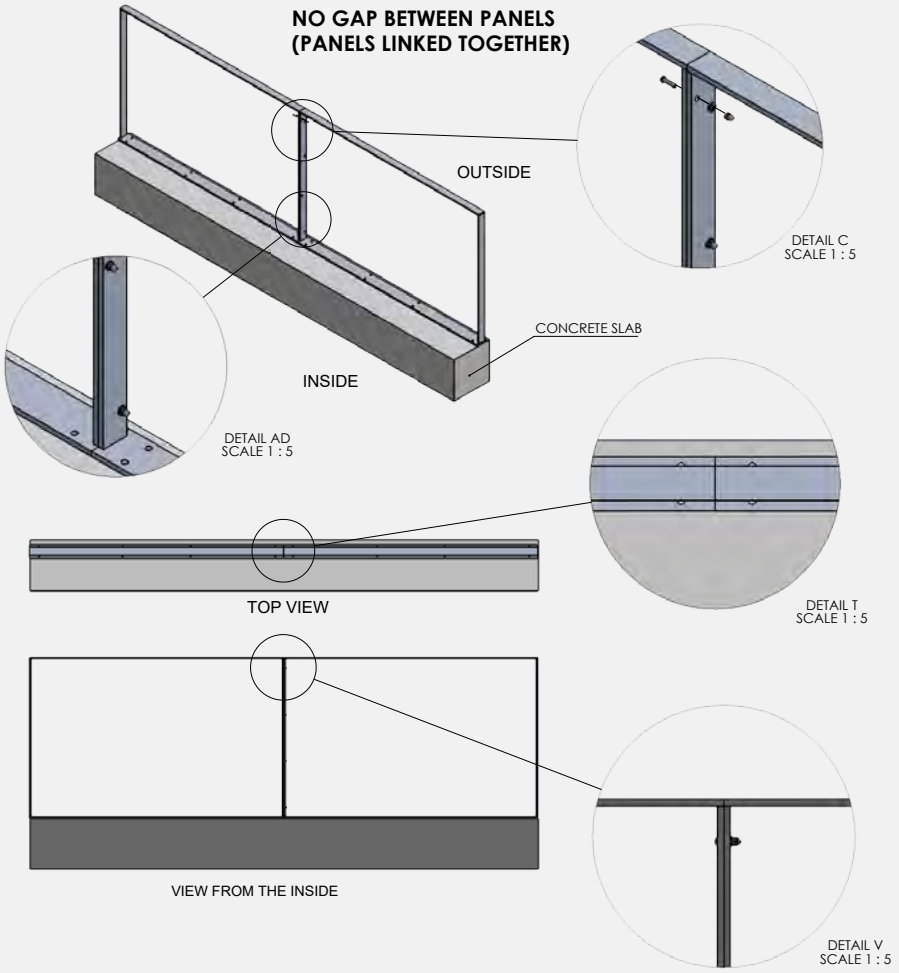
This fixing should only be installed on leveled surfaces, as the base used to fix this type of panel is a flat bar.
This design is an ideal solution for reducing transitioning lines between the building facade and the balustrade.

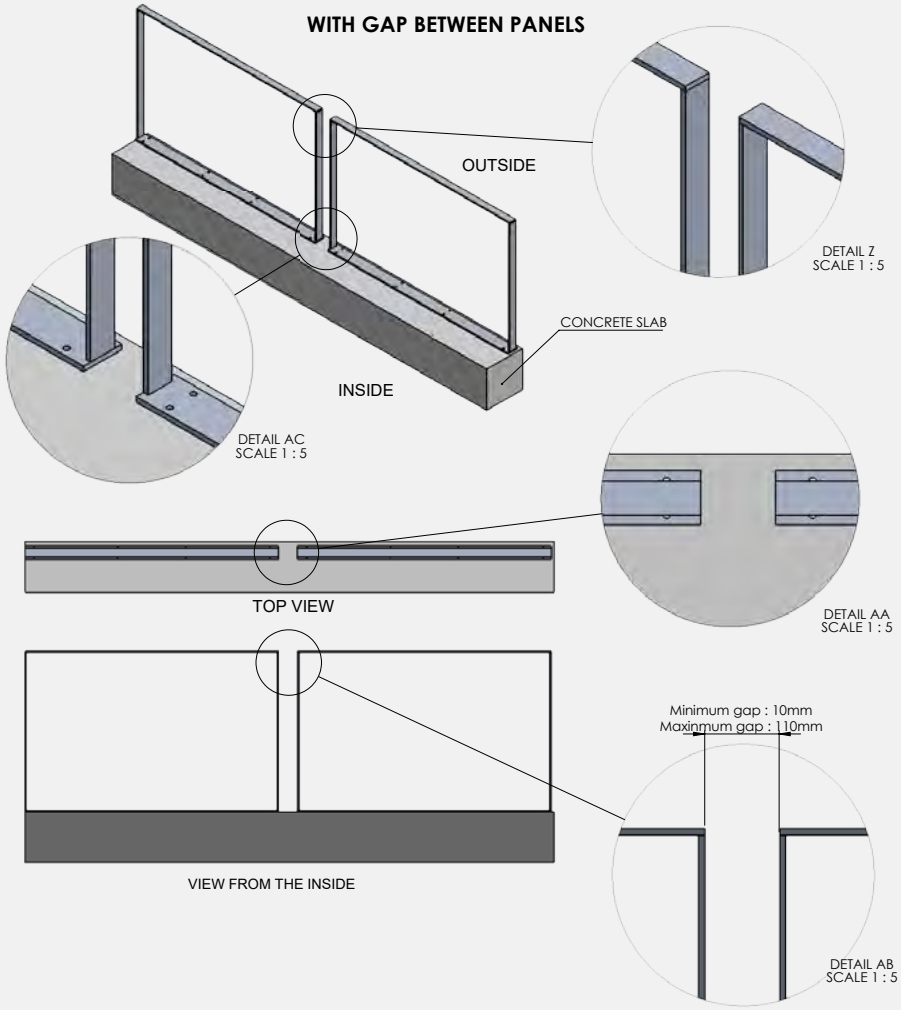
		BLADE 50x10mm RHS		SLATS 50x10mm RHS		ANGLE 32x32x3mm		BATTEN 32x32x3mm SHS	
CENTERS MM	CLAD POSITION (inside rail)	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable
100	FLUSH to BACK					68	✓		
	CENTERED	90	✓			68	✓		
	FLUSH to FRONT			50	✓	68	✓		
120	FLUSH to BACK					88	✓	88	✓
	CENTERED	110	✓			88	✓	88	✓
	FLUSH to FRONT			70	✓	88	✓	88	✓

Material	Aluminium grade 6061
Product construction	MIG welding
Anchor/Fasteners	Depend on substrate
Panel width range	500mm to 1300mm
Panel height range	1000mm to 1300mm from final floor level
Cladding position	Available for all cladding positions
Frame options	Available for all frame types
Assembly options	Available for all assembly options
Finishing	Powder coated



TOP-NGA


NO GAP BETWEEN PANELS
(PANELS LINKED TOGETHER)
OUTSIDE
INSIDE
CONCRETE SLAB
DETAIL C
SCALE 1 : 5
DETAIL AD
SCALE 1 : 5
DETAIL T
SCALE 1 : 5
TOP VIEW
VIEW FROM THE INSIDE
DETAIL V
SCALE 1 : 5

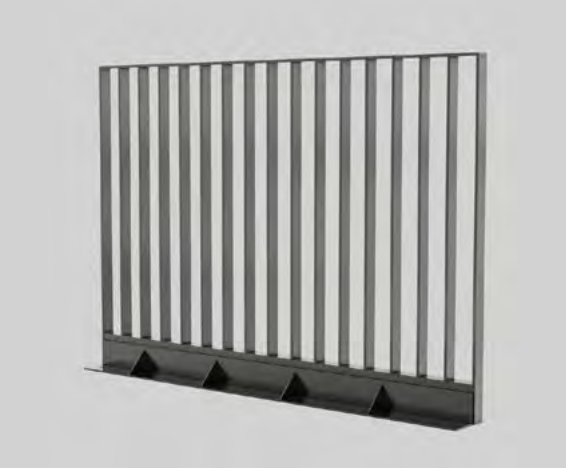

WITH GAP BETWEEN PANELS
OUTSIDE
INSIDE
CONCRETE SLAB
DETAIL Z
SCALE 1 : 5
DETAIL AC
SCALE 1 : 5
DETAIL AA
SCALE 1 : 5
TOP VIEW
VIEW FROM THE INSIDE
Minimum gap : 10mm
Maximum gap : 110mm
DETAIL AB
SCALE 1 : 5

TOP-TIL

TOP-MOUNTED for Tile Pod

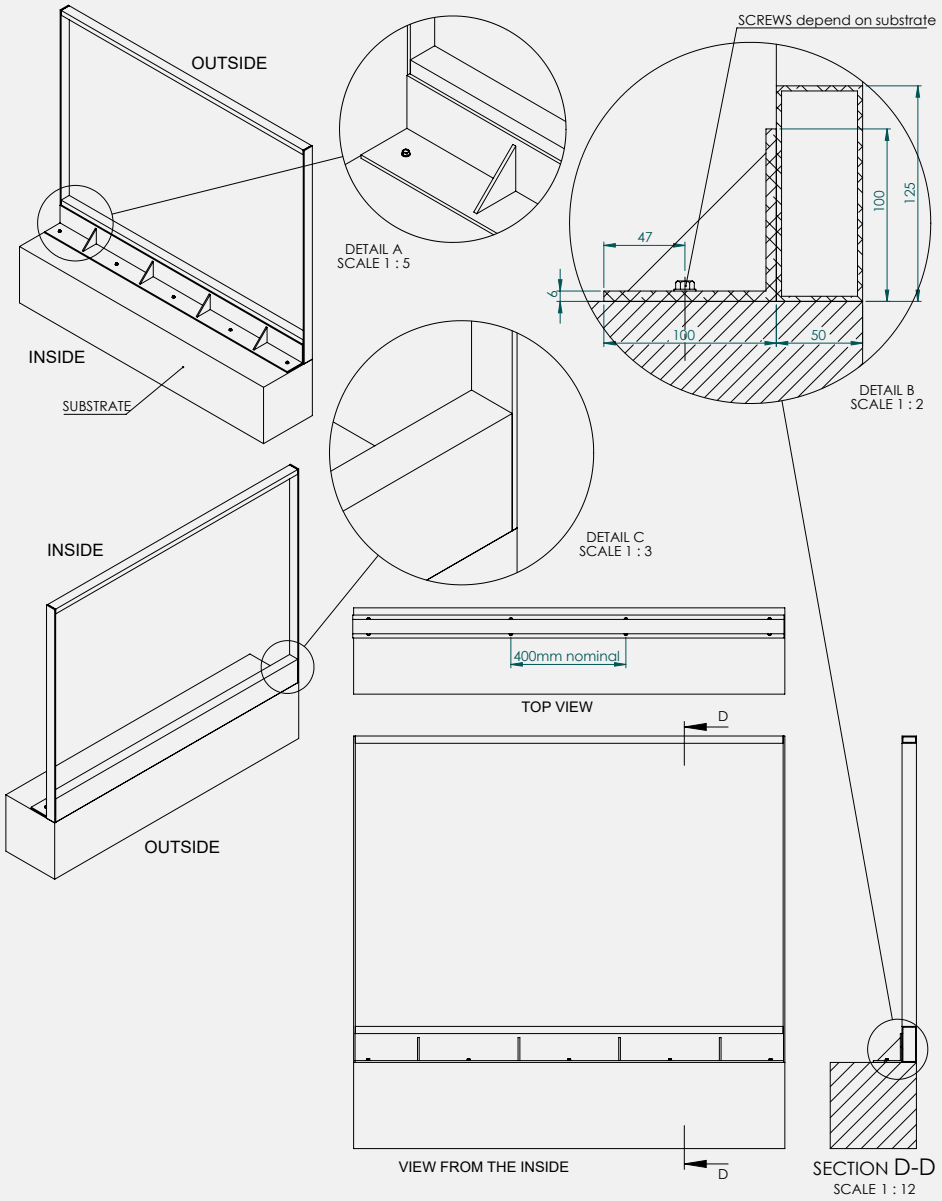
To be fixed on top of the concrete slab in preparation for tiling.

This fixing design features a hidden fixing system that once installed, appears to seamlessly merges from the ground.

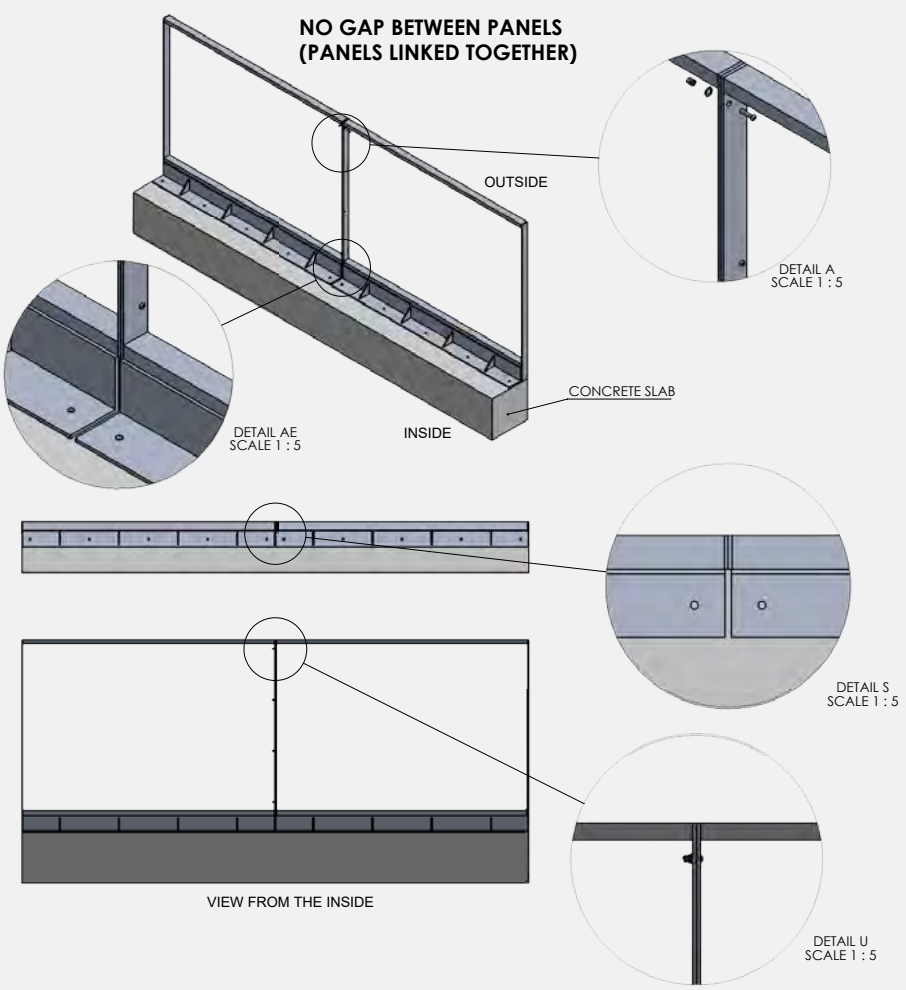


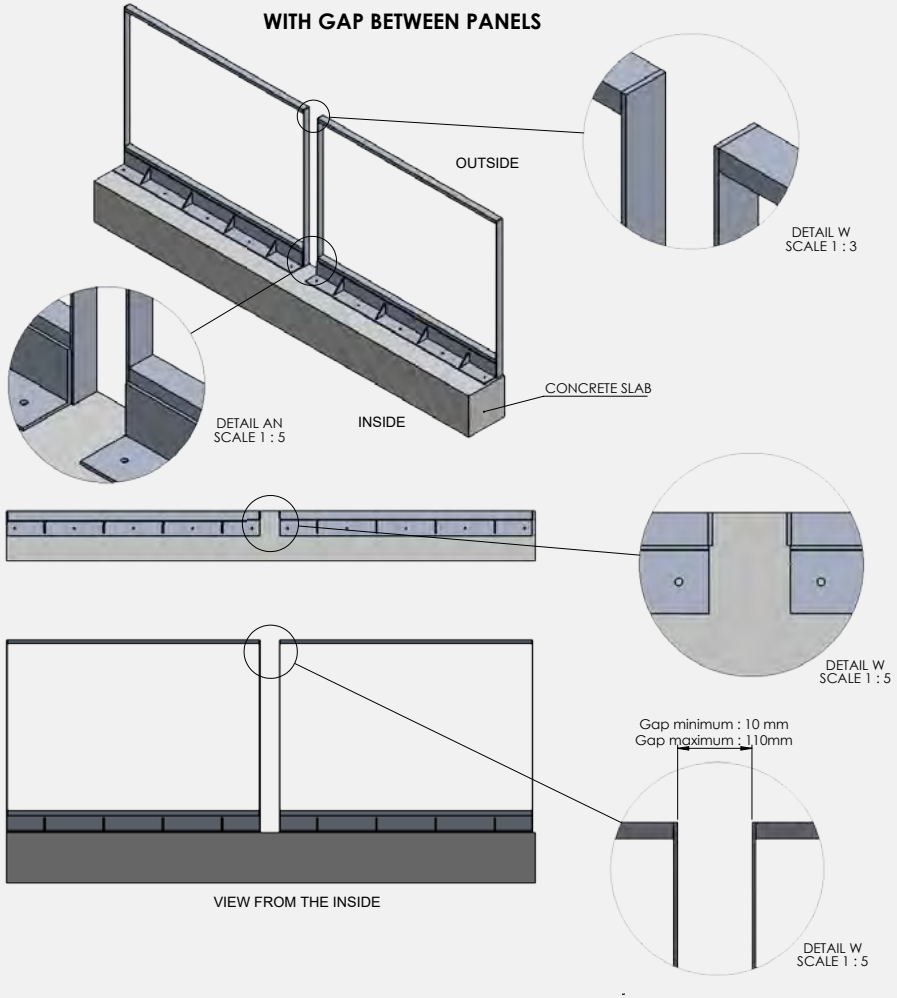
		BLADE 50x10mm RHS		SLATS 50x10mm RHS		ANGLE 32x32x3mm		BATTEN 32x32x3mm SHS	
CENTERS MM	CLAD POSITION (inside rail)	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable	GAP MM	
60	FLUSH to FRONT			10	✓				
80	CENTERED	70	✓						
	FLUSH to FRONT			30	✓				
100	FLUSH to BACK					68	✓	68	✓
	CENTERED		✓			68	✓	68	✓
	FLUSH to FRONT	90		50	✓	68	✓	68	✓
120	FLUSH to BACK					88	✓	88	✓
	CENTERED	110	✓			88	✓	88	✓
	FLUSH to FRONT			70	✓	88	✓	88	✓

Material	Aluminium grade 6061
Bottom plinth	80-150mm tall
Product construction	MIG welding
Anchor/Fasteners	Depend on substrate
Panel width range	500mm to 1300mm
Panel height range	1000mm to 1300mm from final floor level
Cladding position	Suitable for all cladding positions
Frame options	Available for all frame types
Assembly options	Available for all assembly options
Finishing	Powder coated



TOP-TIL

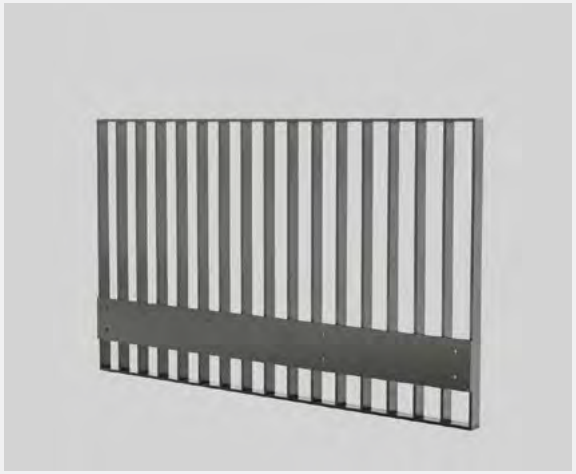

NO GAP BETWEEN PANELS
(PANELS LINKED TOGETHER)
OUTSIDE
DETAIL A
SCALE 1 : 5
CONCRETE SLAB
DETAIL AE
SCALE 1 : 5
INSIDE
DETAIL S
SCALE 1 : 5
VIEW FROM THE INSIDE
DETAIL U
SCALE 1 : 5


WITH GAP BETWEEN PANELS
OUTSIDE
DETAIL W
SCALE 1 : 3
DETAIL AN
SCALE 1 : 5
INSIDE
CONCRETE SLAB
DETAIL W
SCALE 1 : 5
Gap minimum : 10 mm
Gap maximum : 110mm
VIEW FROM THE INSIDE
DETAIL W
SCALE 1 : 5

FACE-MOUNTED
160x10mm Plate

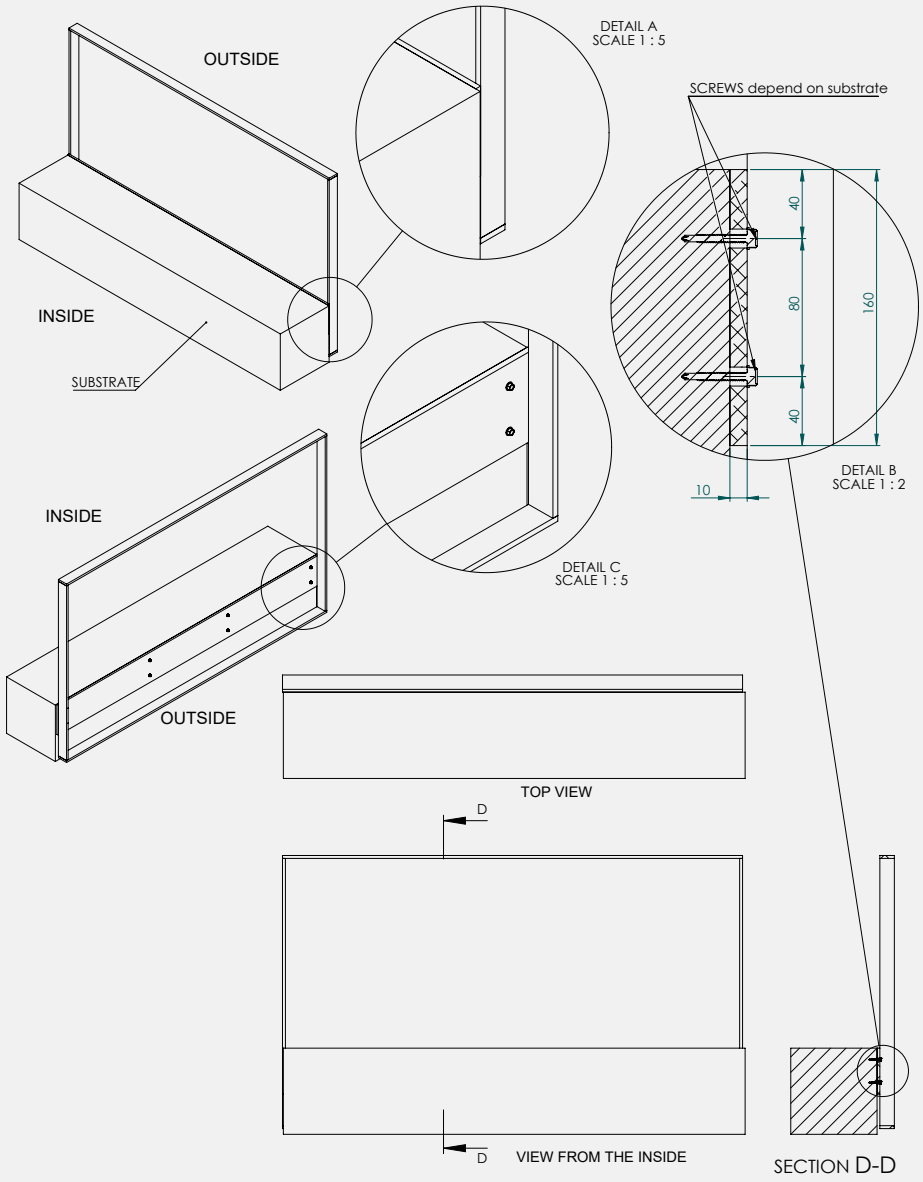
To be fixed onto a substrate's face and cover the concrete slab.

This fixing design adds modernity to the building's facade and creates more balcony space.

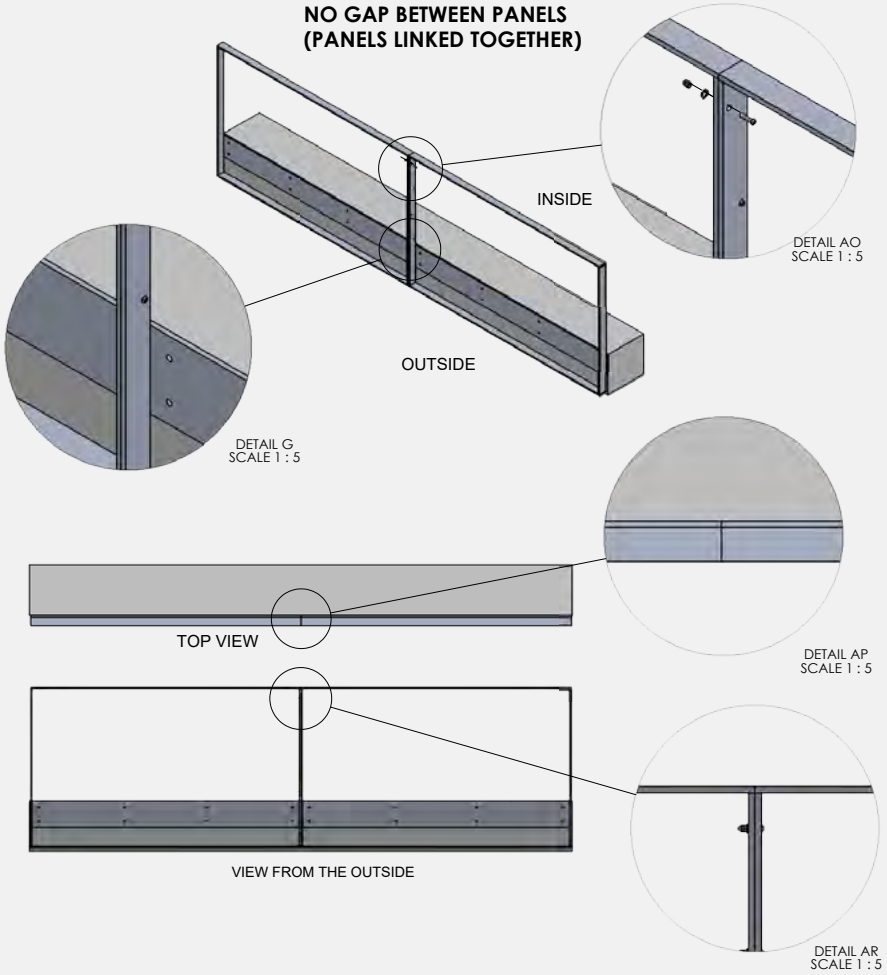


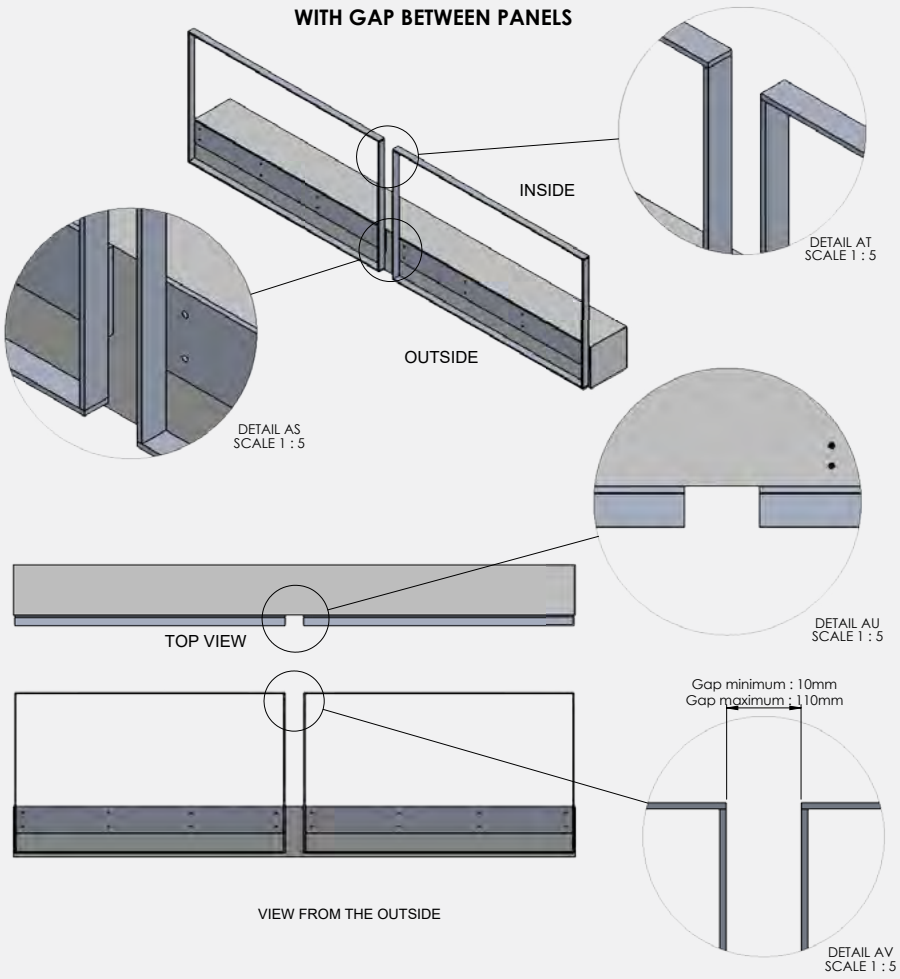
		BLADE 50x10mm RHS		SLATS 50x10mm RHS		ANGLE 32x32x3mm		BATTEN 32x32x3mm SHS	
CENTERS MM	Cladding position (within frame)	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable
80	FLUSH to BACK			30	✓				
	CENTERED	70	✓						
100	FLUSH to BACK			50	✓	68	✓	68	✓
	CENTERED	90	✓						
120	FLUSH to BACK			70	✓	88	✓	88	✓
	CENTERED	110	✓						

Material	Aluminium grade 6061
Product construction	MIG welding
Anchor/Fasteners	Depend on substrate
Panel width range	500mm to 1300mm
Panel height range	1000mm to 1300mm from final floor level
Cladding position	Not suitable for cladding designs flush to front
Frame options	Available for all frame types
Overhang variations	From 160-400mm
Assembly options	Available for all assembly options
Finishing	Powder coated



FAC-PLA


NO GAP BETWEEN PANELS
(PANELS LINKED TOGETHER)
INSIDE
OUTSIDE
DETAIL AO
SCALE 1 : 5
DETAIL G
SCALE 1 : 5
TOP VIEW
DETAIL AP
SCALE 1 : 5
VIEW FROM THE OUTSIDE
DETAIL AR
SCALE 1 : 5

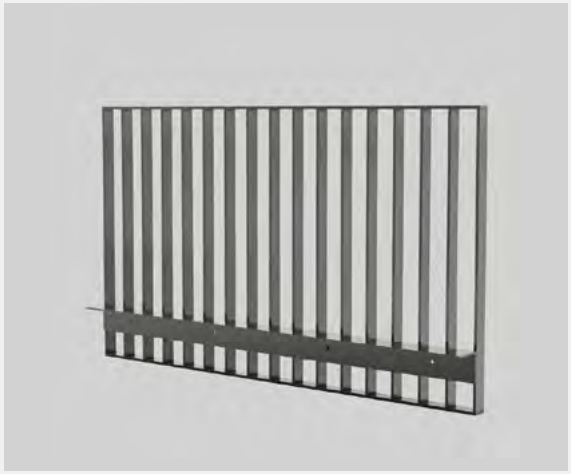

WITH GAP BETWEEN PANELS
INSIDE
OUTSIDE
DETAIL AT
SCALE 1 : 5
DETAIL AS
SCALE 1 : 5
TOP VIEW
DETAIL AU
SCALE 1 : 5
Gap minimum : 10mm
Gap maximum : 110mm
VIEW FROM THE OUTSIDE
DETAIL AV
SCALE 1 : 5

FAC-ANG

FACE-MOUNTED

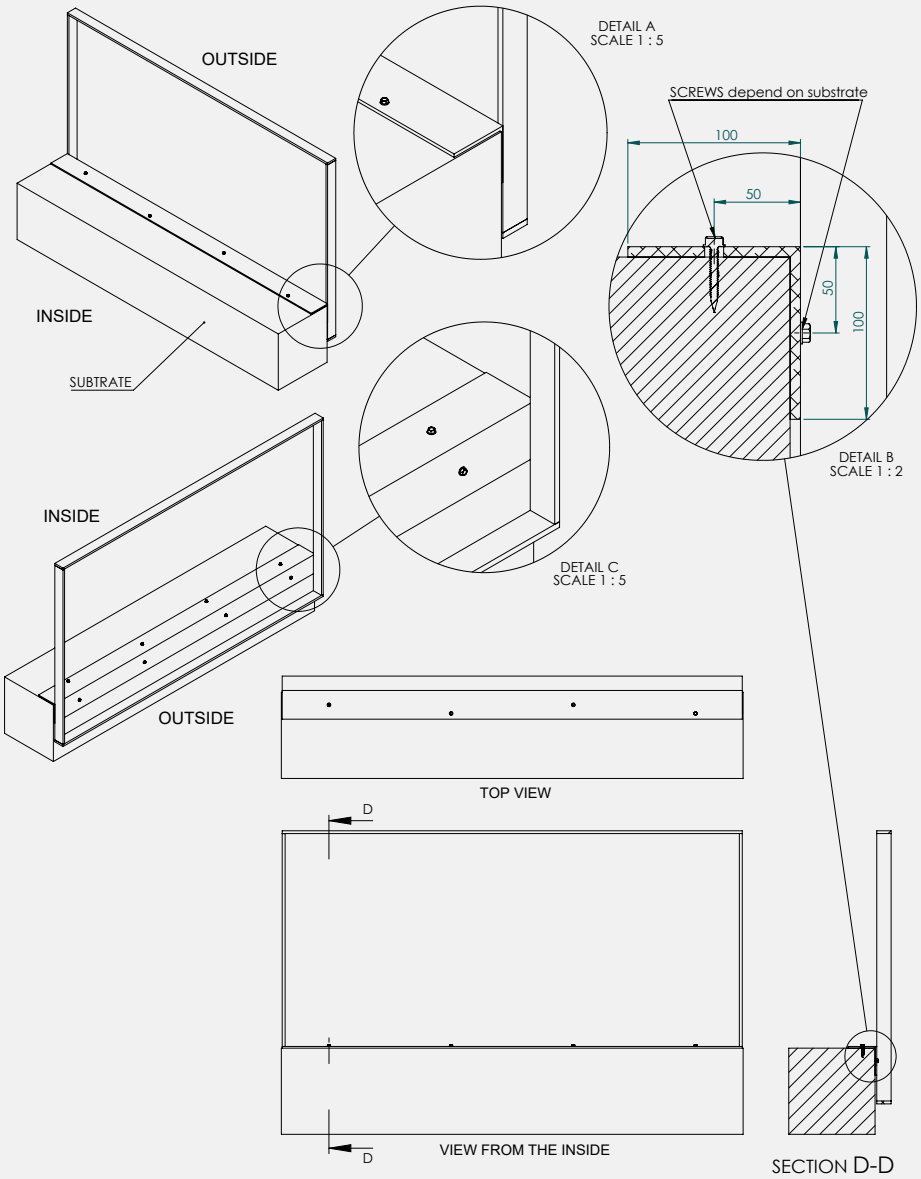
100x100x6mmm Angle

The Angle fixing provides optimal space utilization of a balcony or deck area and contributes to an impeccable look.



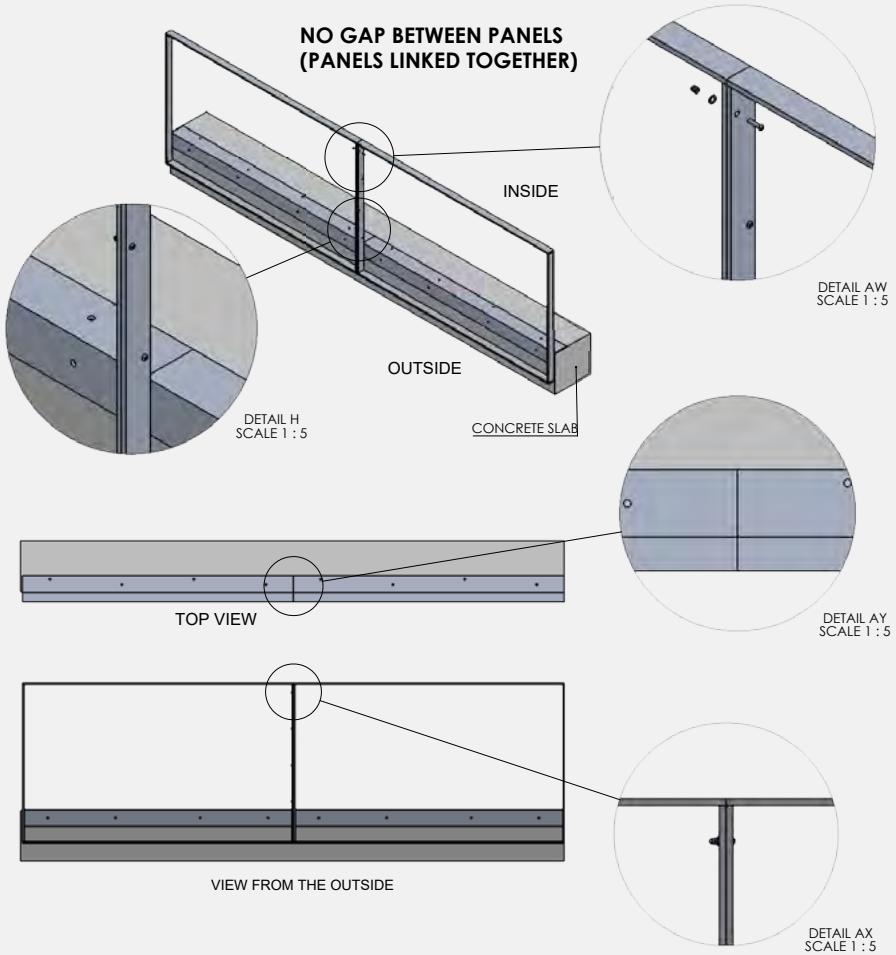
		BLADE 50x10mm RHS		SLATS 50x10mm RHS		ANGLE 32x32x3mm		BATTEN 32x32x3mm SHS	
CENTERS MM	CLAD POSITION (inside rail)	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable
80	FLUSH to BACK			30	✓				
	CENTERED	70	✓						
100	FLUSH to BACK			50	✓	68	✓	68	✓
	CENTERED	90	✓						
120	FLUSH to BACK			70	✓	88	✓	88	✓
	CENTERED	110	✓						

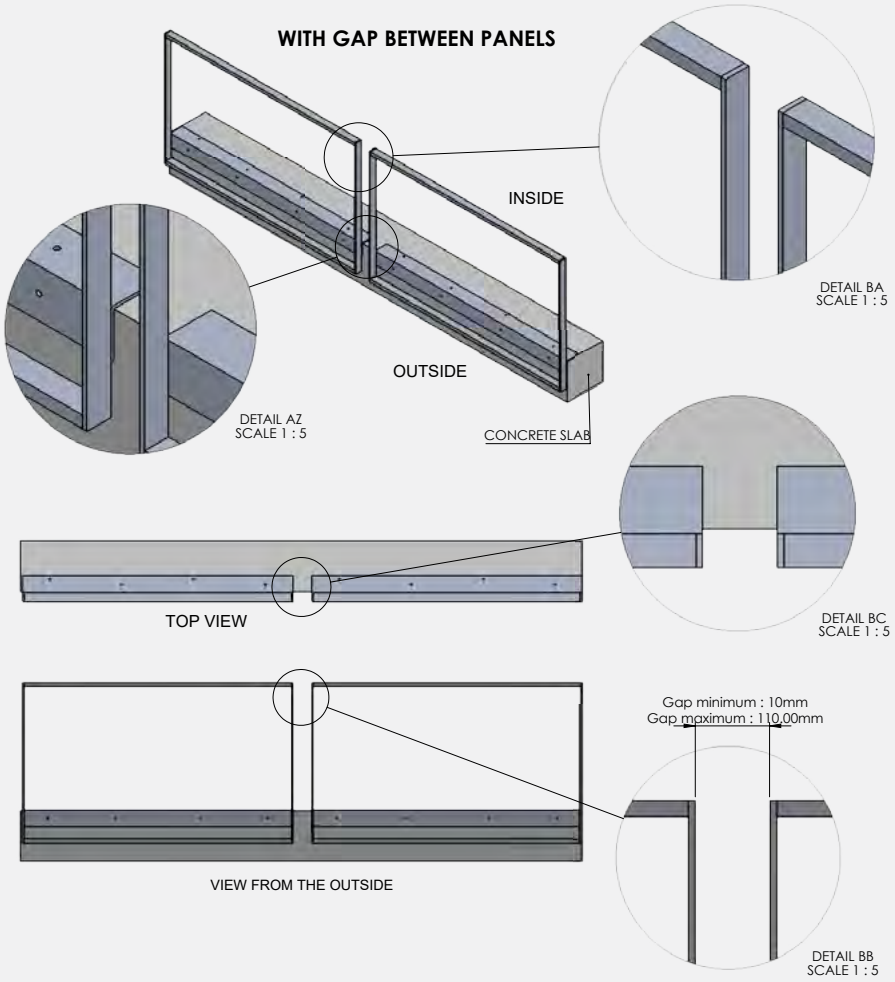
Material	Aluminium grade 6061
Product construction	MIG welding
Anchor/Fasteners	Depend on the substrate
Panel width range	500mm to 1300mm
Panel height range	1000mm to 1300mm from final floor level
Cladding position	Not suitable for cladding designs flush to front
Frame options	Available for all frame types
Overhang variations	From 160-400mm
Assembly options	Available for all assembly options
Finishing	Powder coated



FAC-ANG

FACE-MOUNTED 100x100x6mmm angle (FAC-ANG)





WAL-MOU

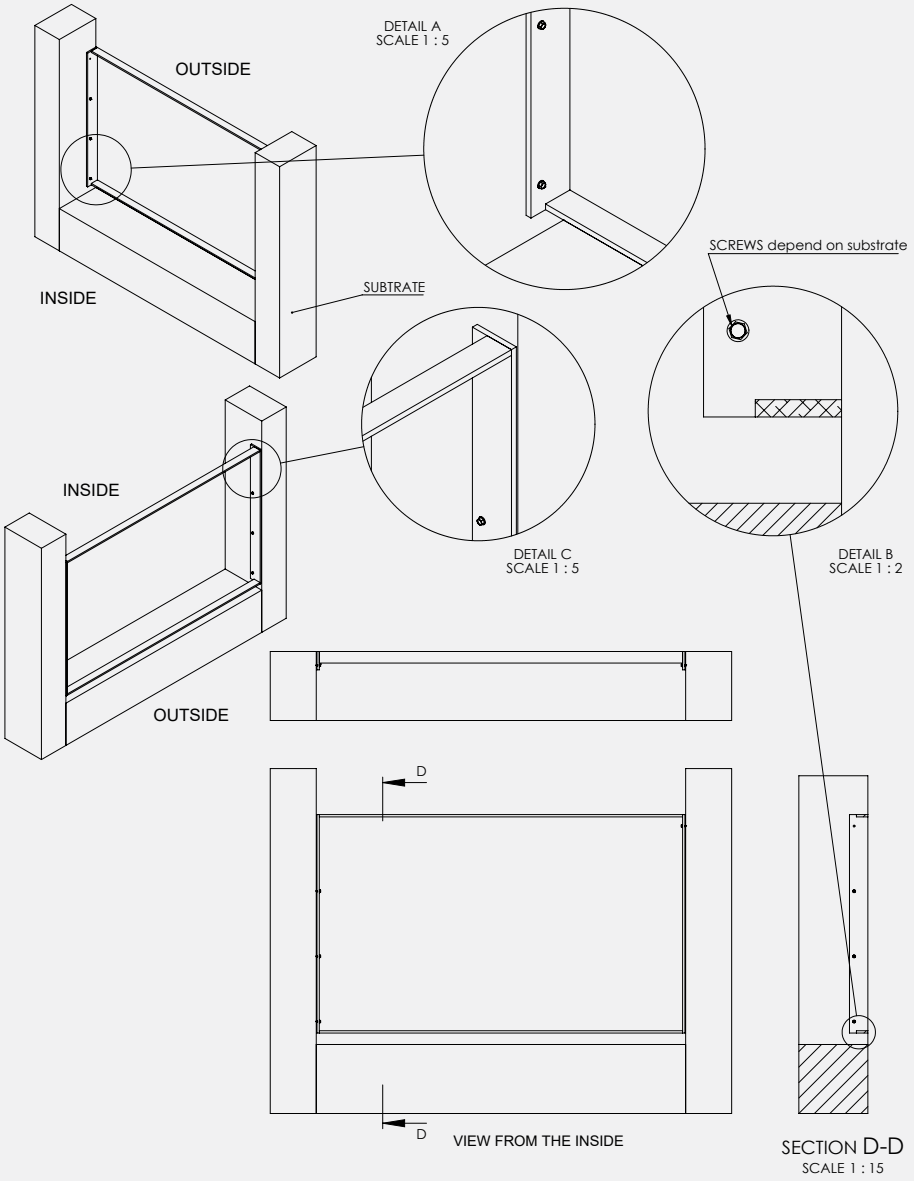
WALL-MOUNTED

To be fixed in between walls as single or end panels.

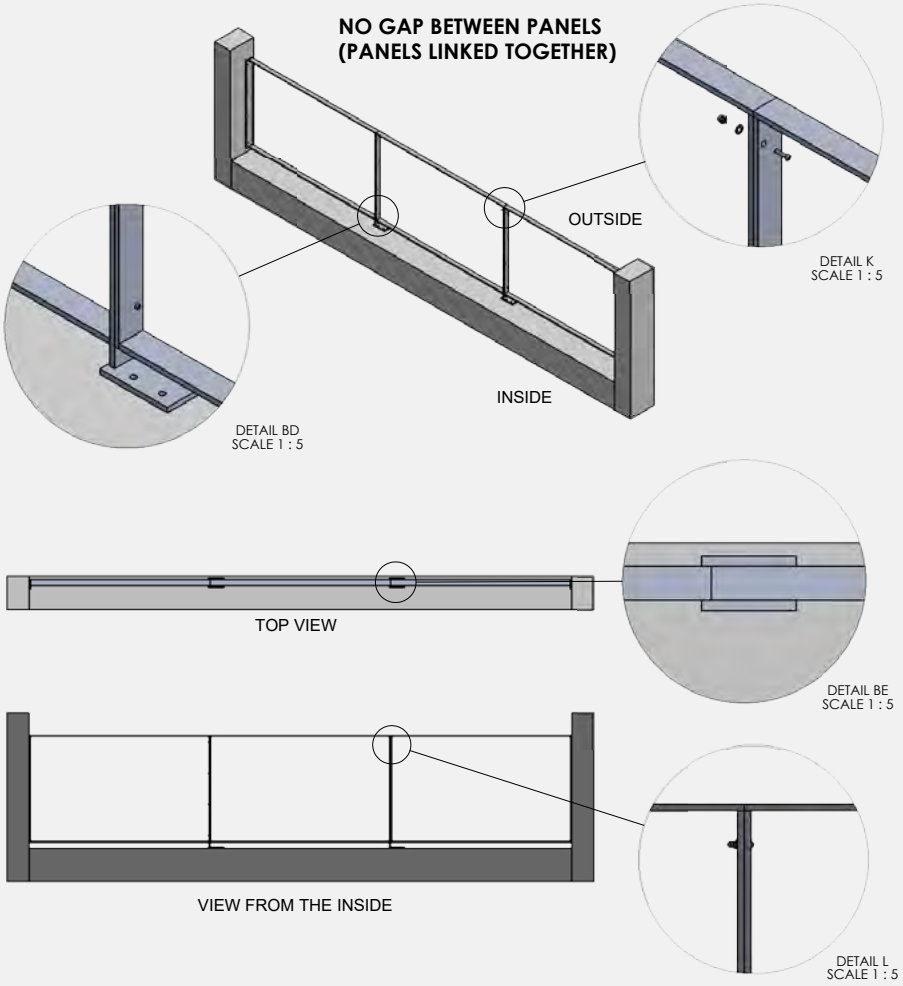
The installation of the Wall-mounted panel is easy as its wider frame uprights allow for easy fixing.

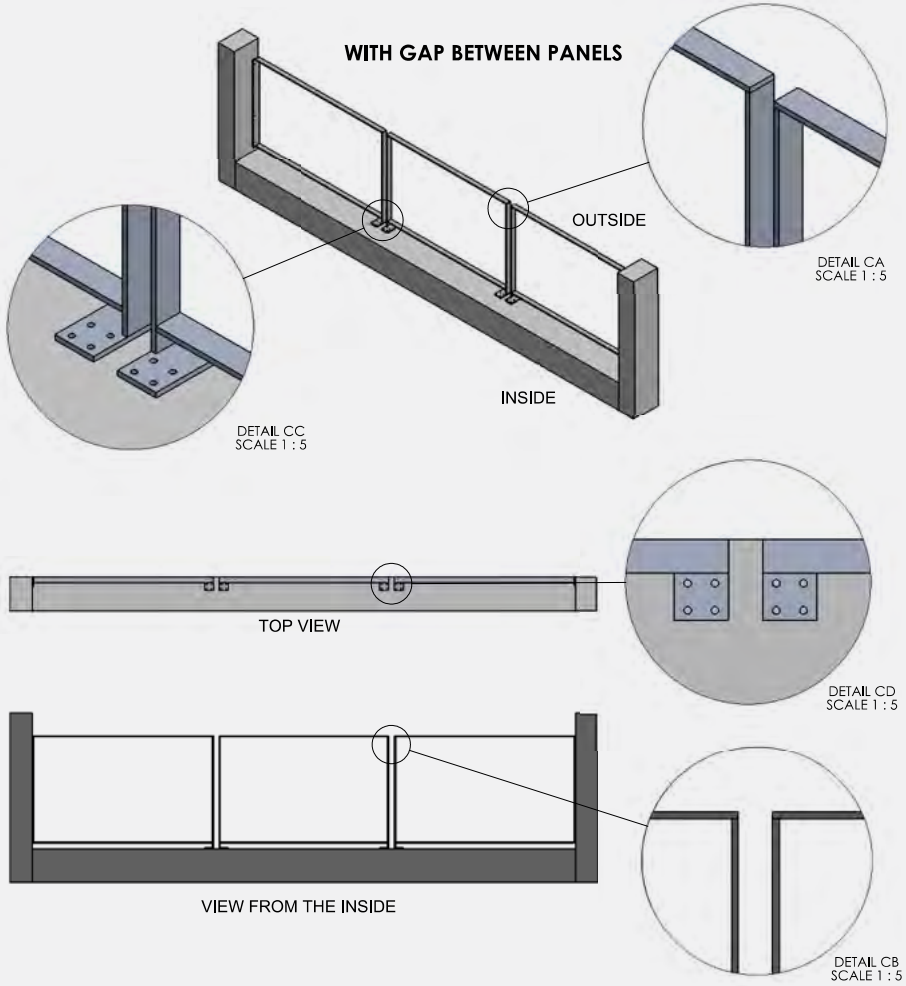
		BLADE 50x10mm RHS		SLATS 50x10mm RHS		ANGLE 32x32x3mm		BATTEN 32x32x3mm SHS	
CENTERS MM	CLAD POSITION (inside rail)	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable
60	FLUSH to FRONT			10	✓				
80	CENTERED	70	✓						
	FLUSH to FRONT			30	✓				
100	FLUSH to BACK					68	✓	68	✓
	CENTERED	90	✓			68	✓	68	✓
	FLUSH to FRONT			50	✓	68	✓	68	✓
120	FLUSH to BACK					88	✓	88	✓
	CENTERED	110	✓			88	✓	88	✓
	FLUSH to FRONT			70	✓	88	✓	88	✓

Material	Aluminium grade 6061
Product construction	MIG welding
Anchor/Fasteners	Depend on substrate
Panel width range	500mm to 1300mm
Panel height range	1000mm to 1300mm from final floor level
Cladding position	Suitable for all cladding positions
Frame options	Available for all frame types
Assembly options	Available for all assembly options
Finishing	Powder coated



WAL-MOU


NO GAP BETWEEN PANELS
(PANELS LINKED TOGETHER)
OUTSIDE
INSIDE
DETAIL K
SCALE 1 : 5
DETAIL BD
SCALE 1 : 5
TOP VIEW
DETAIL BE
SCALE 1 : 5
VIEW FROM THE INSIDE
DETAIL L
SCALE 1 : 5

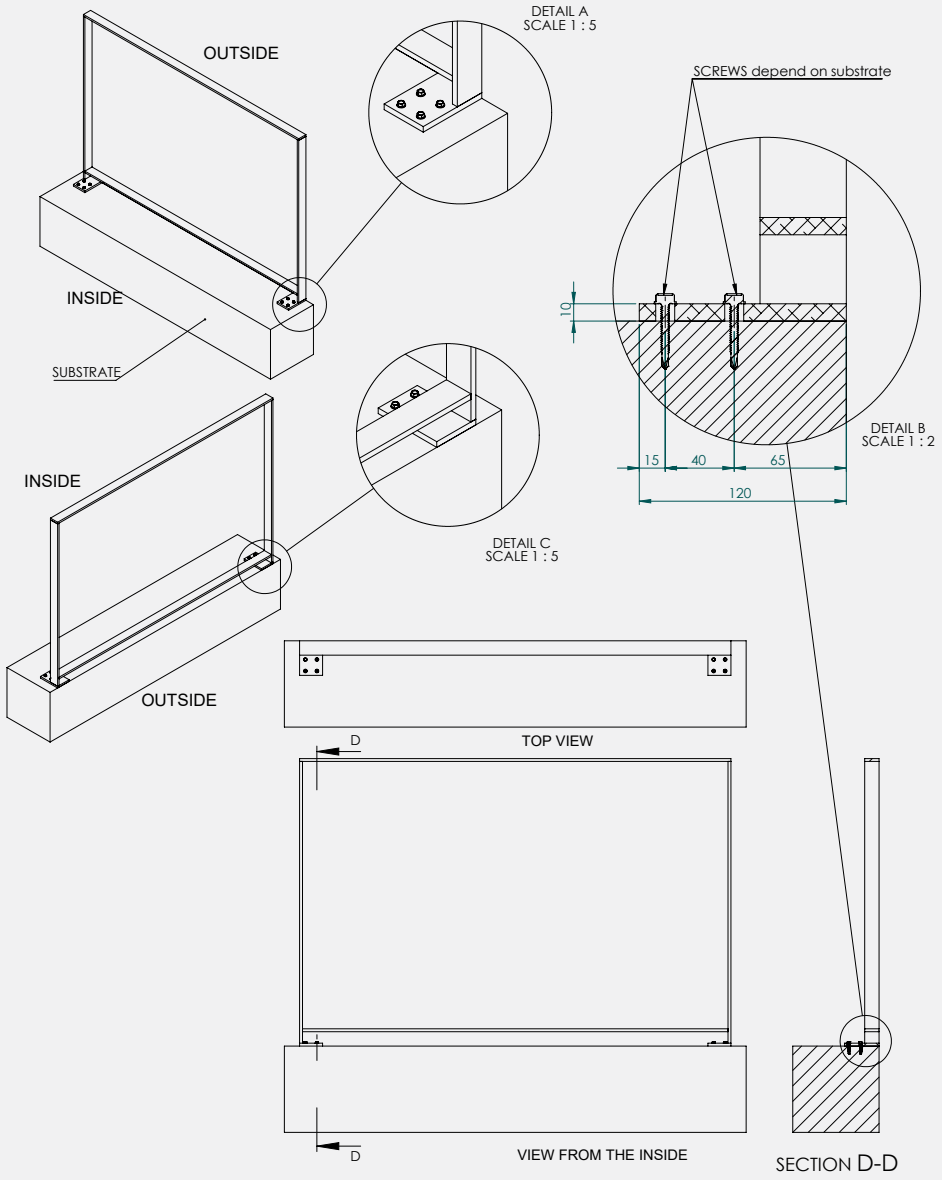

WITH GAP BETWEEN PANELS
OUTSIDE
INSIDE
DETAIL CA
SCALE 1 : 5
DETAIL CC
SCALE 1 : 5
TOP VIEW
DETAIL CD
SCALE 1 : 5
VIEW FROM THE INSIDE
DETAIL CB
SCALE 1 : 5

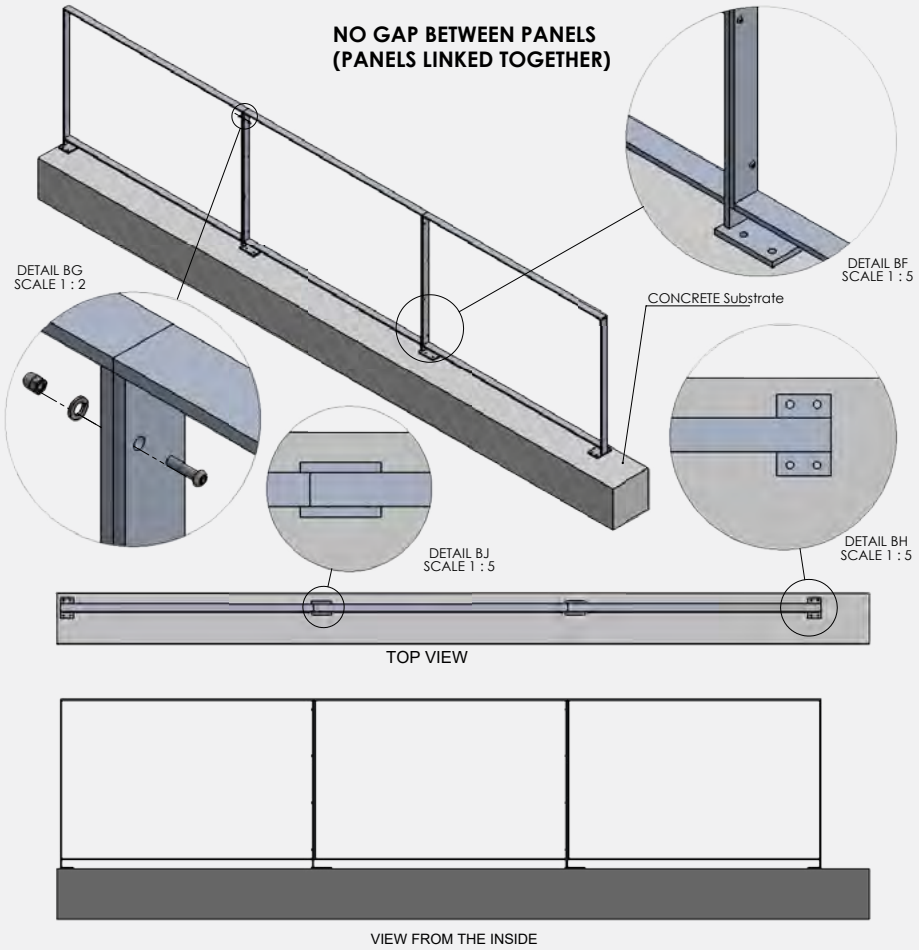
BASE PLATE

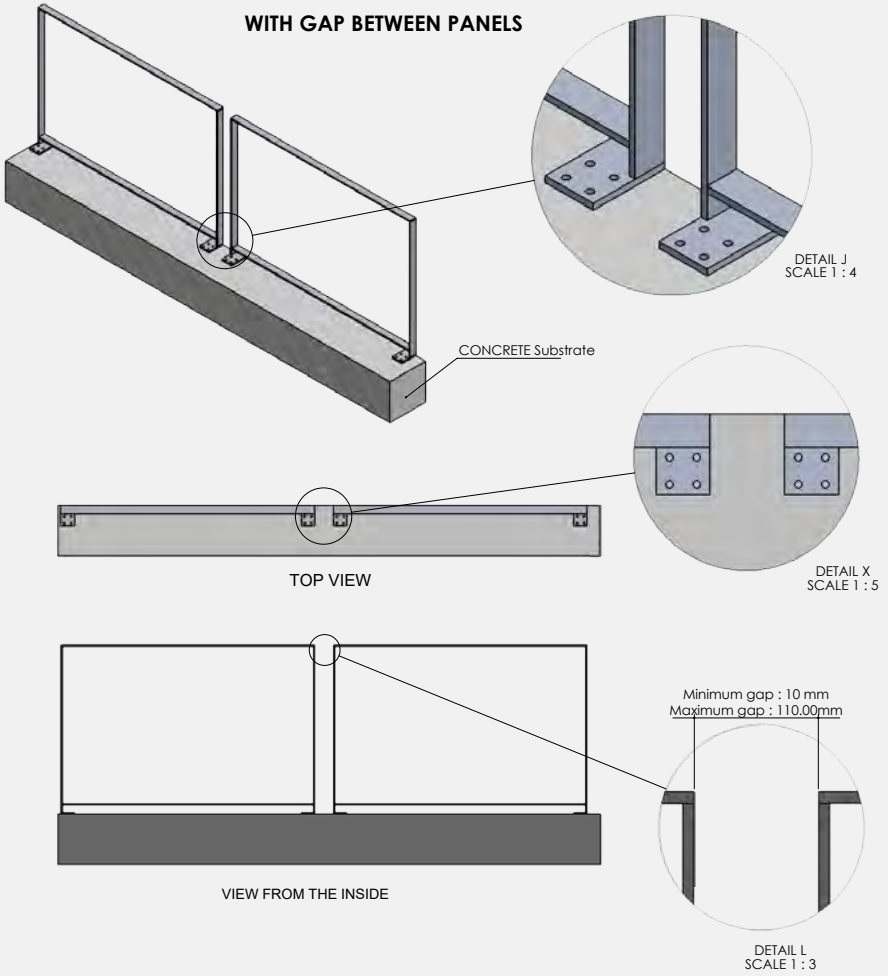
Easy to install and level, a fixing that can be installed in most substrates.
Base plates are the best solution for achieving a larger gap under balustrades panels without compromising safety.

		BLADE 50x10mm RHS		SLATS 50x10mm RHS		ANGLE 32x32x3mm		BATTEN 32x32x3mm SHS	
CENTERS MM	CLAD POSITION (inside rail)	GAP M	Applicable	GAP MM	Applicable	GAP MM	Applicable	GAP MM	Applicable
60	FLUSH to FRONT			10	✓				
80	CENTERED	70	✓						
	FLUSH to FRONT			30	✓				
100	FLUSH to BACK					68	✓	68	✓
	CENTERED	90	✓			68	✓	68	✓
	FLUSH to FRONT			50	✓	68	✓	68	✓
120	FLUSH to BACK					88	✓	88	✓
	CENTERED	110	✓			88	✓	88	✓
	FLUSH to FRONT			70	✓	88	✓	88	✓

Material	Aluminium grade 6061
Product construction	MIG welding
Anchor/Fasteners	Depend on substrate
Panel width range	500mm to 1300mm
Panel height range	1000mm to 1300mm from final floor level
Cladding position	Suitable for all cladding positions
Frame options	Available for all frame types
Assembly options	Available for all assembly options
Finishing	Powder coated




NO GAP BETWEEN PANELS
(PANELS LINKED TOGETHER)
DETAIL BF
SCALE 1 : 5
DETAIL BG
SCALE 1 : 2
CONCRETE Substrate
DETAIL BJ
SCALE 1 : 5
DETAIL BH
SCALE 1 : 5
TOP VIEW
VIEW FROM THE INSIDE


WITH GAP BETWEEN PANELS
DETAIL J
SCALE 1 : 4
CONCRETE Substrate
DETAIL X
SCALE 1 : 5
TOP VIEW
Minimum gap : 10 mm
Maximum gap : 110.00mm
VIEW FROM THE INSIDE
DETAIL L
SCALE 1 : 3

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