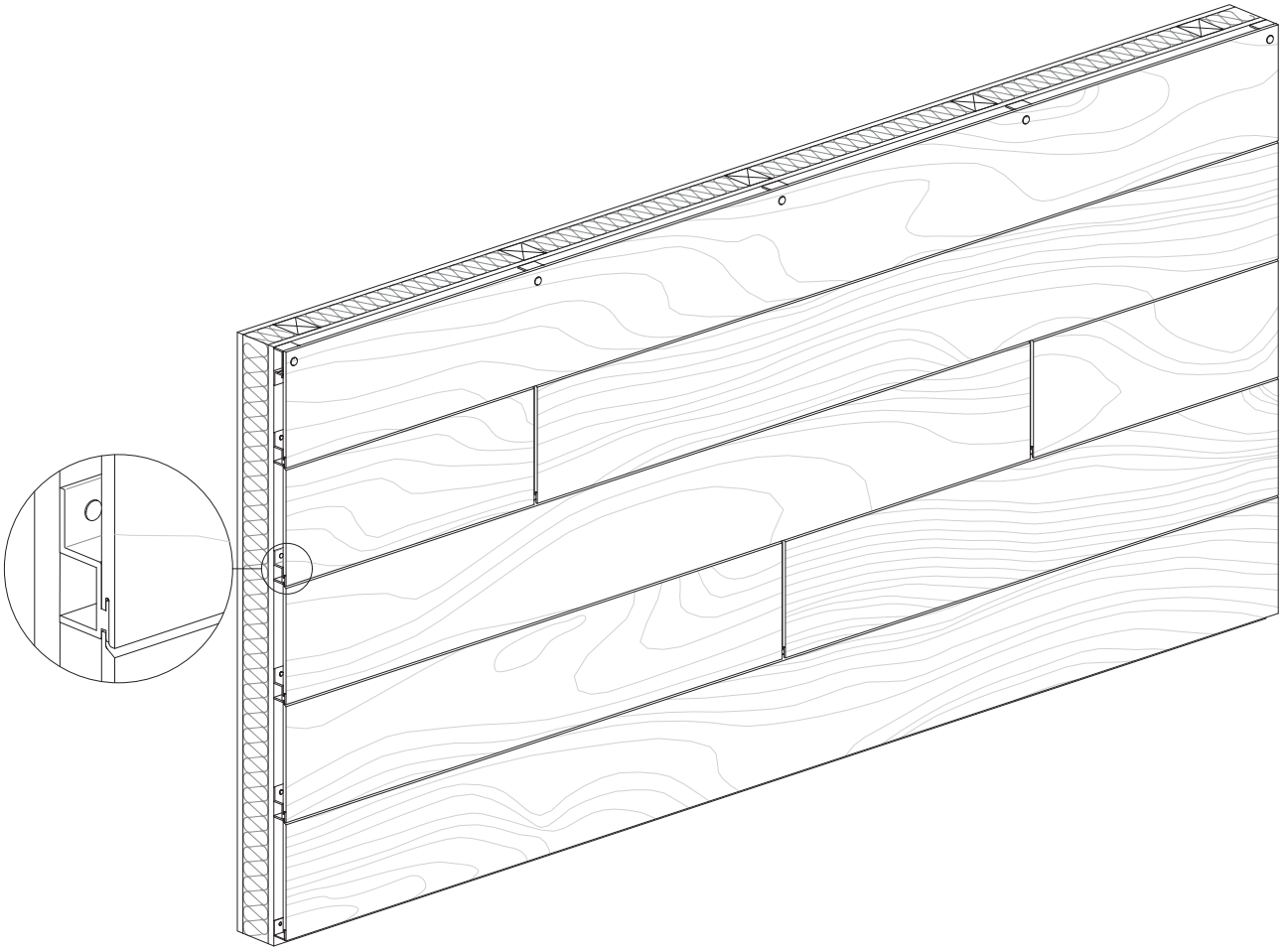


ONESIDING SYSTEM
NATURSIDING, NATURSOFFIT-W, NATURHARDPANEL-W

PARKLEX PRODEMA

NATURSIDING-W, NATURSIDING-B, NATURSOFFIT-W and NATURHARDPANEL-W panels can be installed by using onesiding system.

This installation system is valid for installing on facades, exterior soffits or interior walls and ceilings.

Panels may be installed using horizontal onesiding system or vertical onesiding system. The panels are mounted on the onesiding clips which are 1” deep and create a ventilated air chamber behind the panels. In the event that the wall is not perfectly plumb, shims are used to adjust the depth of the channel installation.

PARKLEX PRODEMA also supplies a similar installation system called Siding System for facades where more than 1” air chamber is required. For instructions, check the technical area of the website.

Panel thickness: 8mm

Panel dimensions:
2440 mm x 137, 188, 290 mm
96” x 5.35”, 7.40”, 11.42”

Dimensions for Boreal, Chestnut and Coffee finishes:
2200 mm x 137, 198, 300 mm
86,6” x 5.35”, 7.80”, 11.81”

Panel layout:

	HORIZONTAL	VERTICAL
NATURSIDING-W	√	√
NATURSIDING-B	√	√
NATURSOFFIT-W	√	√
NATURHARDPANEL-W	√	√

Assembly instructions:

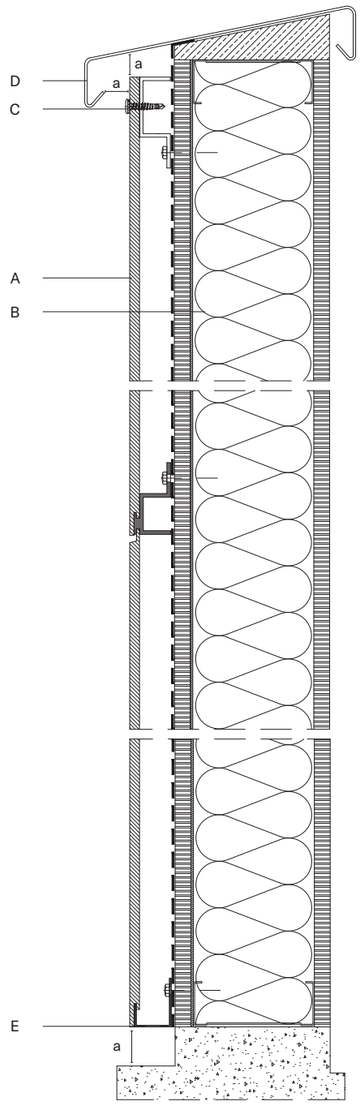
The ventilated facade has several advantages over a conventional facade:
– Permeability: Moving air difuses water vapour from the inside out and facilitates the ‘breathing’ of the facade, preventing condensation behind the panels.
– Water protection: Moving air provides protection from the elements, because it avoids water filtering the building.
– Thermal insulation: The load-bearing frame is insulated from the exterior subframe, eliminating thermal bridges. In this manner, temperature fluctuations are reduced in the interior, leading to energy savings.
– Solar protection: Thermal confort is improved inside the building by preventing overheating in the summer, as it facilitates ‘breathing’ of the facade. This reduces the amount of thermal energy that reaches the inside of the building. The internal structure is protected from direct radiation and from the elements
– Acoustic protection: The panels also act as a barrier for acoustic waves reducing the amount of noise coming from the outside, although it doesn’t provide acoustic insulation properties.

Ventilation behind the panel is required.

Cladding panels must be installed as a ventilated facade; therefore, they must be separated from the wall by using the onesiding clips, forming a chamber with a space of 25,4 mm (1”). In the event that some type of insulation is installed, a double-channel subframe or a single-channel subframe with adjustable supporting elements must be installed, ensuring that the chamber is maintained. PARKLEX PRODEMA also offers SIDING INSTALLATION SYSTEM which includes vertical channels, and can be beneficial for this purpose. To permit air circulation in the ventilated chamber, the air intake and output must be correctly proportioned.

Head ventilation:
The ventilation at the head of the chamber must be ≥ 20mm (3/4”). This ventilation space must be left whenever there is an interruption in the face of the cladding panels.

Base ventilation:
The ventilation at the base of the chamber must be ≥ 20mm (3/4”). This ventilation space must be left whenever there is a new base i.e. if the cladding panels are interrupted by windows or other elements.

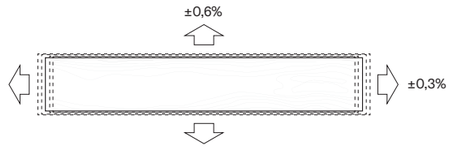


A. Cladding planks
B. Insulation
C. Screw
D. Metal sheet
E. L30X30 starter rail
a ≥ 20mm (¾") (except for specific code requirements)

Dimensional Stability:

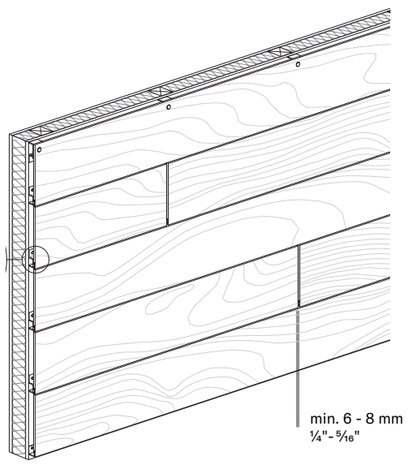
It must be kept in mind that the exterior planks will be exposed to changing seasons over the years, and they are composed of natural wood. Given that wood is a living material which suffers dimensional variations due to changes in humidity and temperature, it is important that the fasteners used are the indicated by PARKLEX PRODEMA, allowing the planks to move and not blocking their expansion and contraction.

All our cladding planks are resistant to vapor, water, snow and ice. However, we do not recommend submerging planks permanently or for extended periods of time.



Expansion Joints:

It is necessary to leave expansion joints at the horizontals to ensure they can absorb any expansion movements. These joints must be at least 6-8 mm (1/4” - 5/16”). It is recommended not to seal the joints with flexible materials, as this may lead to an accumulation of dirt around the edges of the planks.



Minimum Support Points per Panel:

PARKLEX PRODEMA planks must be fasten every 600mm (24”) by using Onesiding clips.

Three supporting points are required in every direction:

Pieces between 350mm and 600mm (14”-24”) need an additional intermediate point. Narrower pieces can be installed with only two supporting points.

Distance between onesiding clips:

Three different plank widths are supplied: 137, 188, and 290mm (5.35”, 7.40” and 11.42”), all with a maximum length of 2440mm (96”). In case of Boreal, Chestnut and Coffee finishes, planks are supplied in a maximum length of 2200mm (86.6”).

This installation system is only valid for 8mm (5/16”) panels.

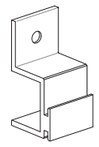
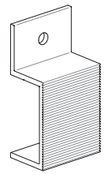
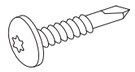
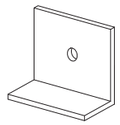
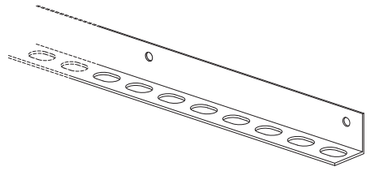
PLANK DIMENSIONS	THICKNESS	MAXIMUM DISTANCE
2440 mm x 137, 188, 300 mm 96” x 5.35”, 7.40”, 11.42”	8mm 5/16"	600 mm 24"
2200* x 137, 198, 300 mm 86.6” x 5.35”, 7.80”, 11.81”		450** - 600 mm 18” - 24”

* Boreal, Chestnut and Coffee finishes
** Recommended span 450 mm (18") to match the plank length

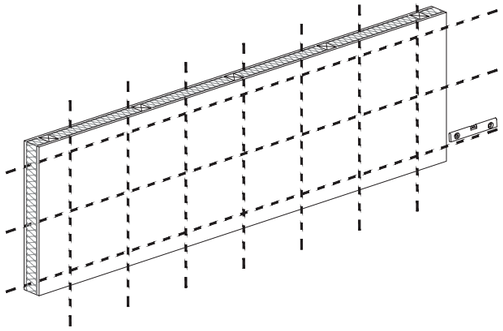
Vertical Onesiding System:

System Components:

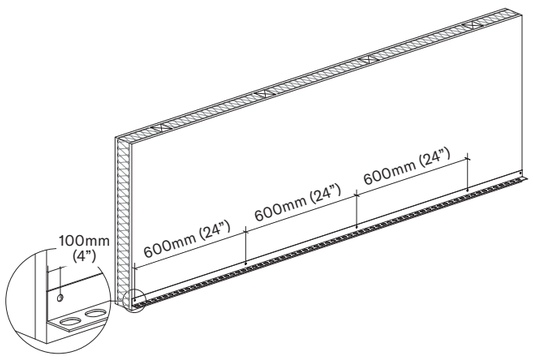
TYPES OF FASTENERS
Installation accessories for Onesiding

Layout	Accesories
 Vertical	 Onesiding Clip  Shim  SX 15-D12-5  Gauge Tool  Centering device  L30x30 stoper piece  L 30x30 stopper rail

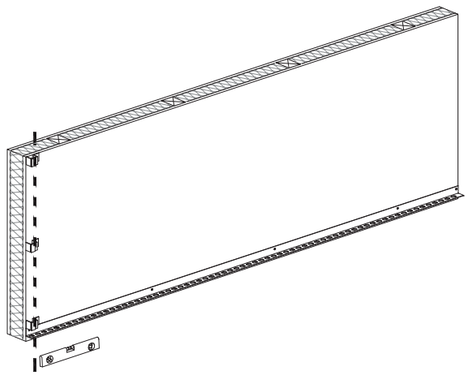
The subframe/wall behind must be totally plumb to avoid the panel copies the imperfections of the supporting surface. PARKLEX PRODEMA recommends to install onesiding clips on flat bearing surfaces so that the panel layout is not compromised by the clip placement.



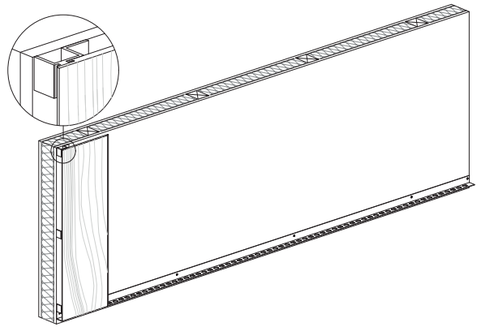
Install the L30X30 Stopper rail at the bottom of the facade fastening it to the supporting wall at a maximum distance of 600mm (24”) between fasteners and making sure it is totally plumb. The maximum cantilever distance for the L30X30 Stopper rail is 100mm (4”).



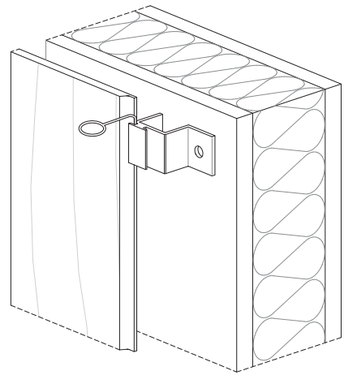
Align the first row of Onesiding clips vertically. The Starter rail supplied for the Horizontal Application can be also used for this step.



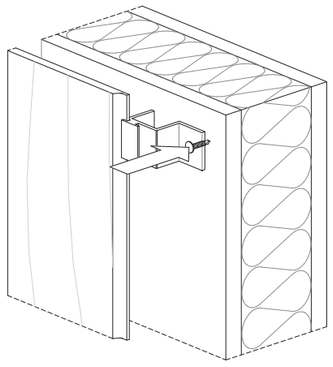
Insert the Onesiding clip tongue into the first plank groove.



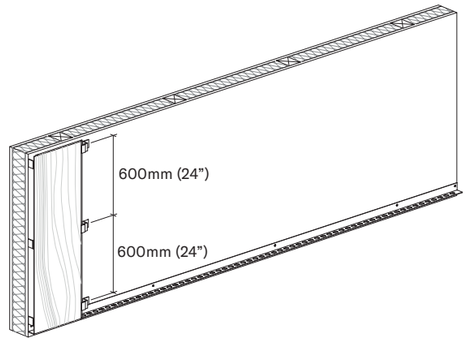
Install the first row of Onesiding clips on the installed plank, using the gauge tool in order to create a 1mm (1⁄16”) expansion joint between the clip and the plank.



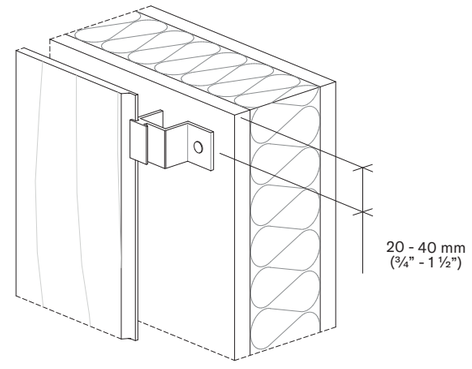
Use the ø 6mm (¼”) hole on the Onesiding clip to fasten it to the subframe behind. The fastener will depend on the material substrate and it must be provided by others.



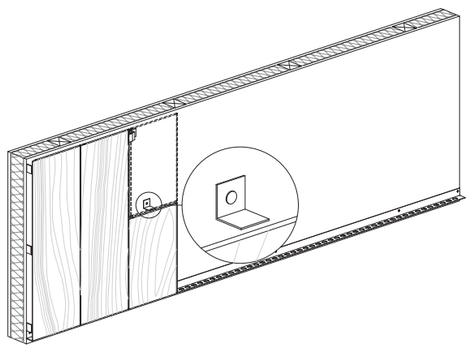
The clips must be installed at least every 600mm (24”). Pieces shorter than 600mm (24”) need a third supporting point in the middle.



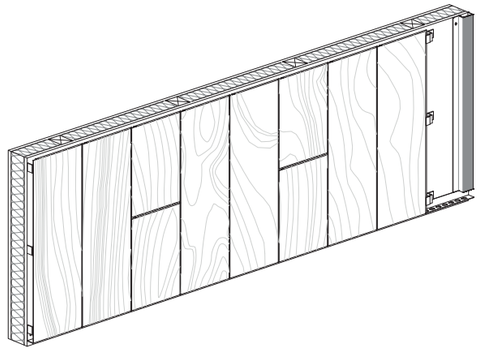
Distances between the Onesiding clips and the edge of the panel. The distance between the Onesiding clips and the edge of the panel must be between 20mm - 40mm (¾” and 1 ½”).



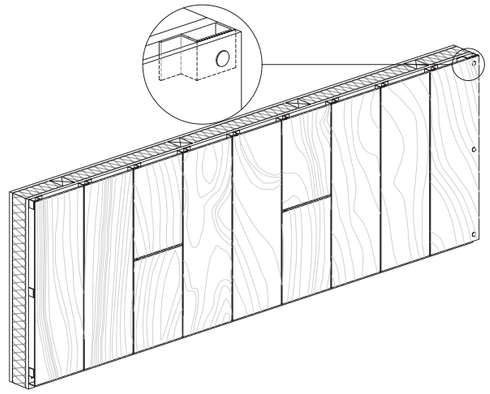
Install the L30X30 stopper piece in the intermediate joints to avoid the plank sliding down.



L30X30 Stopper piece. Install the rest of the plank following the same process.



Cut the last plank to finish the facade. Use a continuous Jay to shim the facade.



How to install PARKLEX PRODEMA using onesiding system

V.1. 2024/10

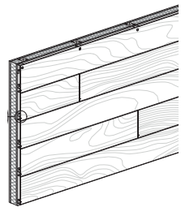
Horizontal Onesiding System:

System Components:

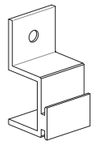
TYPES OF FASTENERS

Installation accessories for Onesiding

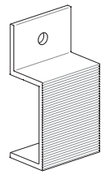
Layout	Accesories



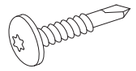
Horizontal



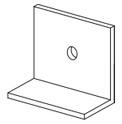
Onesiding Clip



Shim



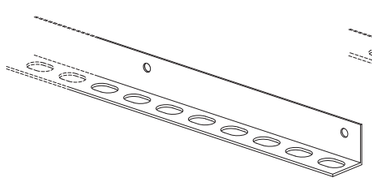
SX 15-D12



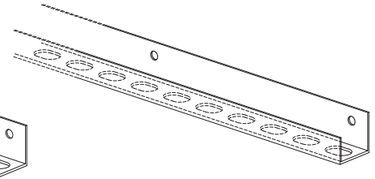
L30x30 stoper piece

Gauge Tool

Centering device

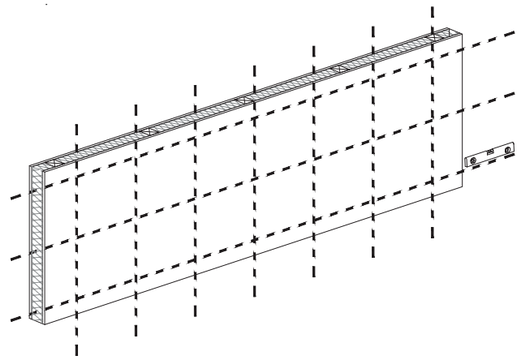


L 30x30 stopper rail

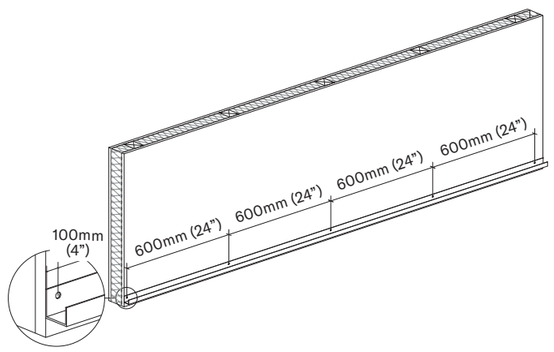


L 30x30 starter rail

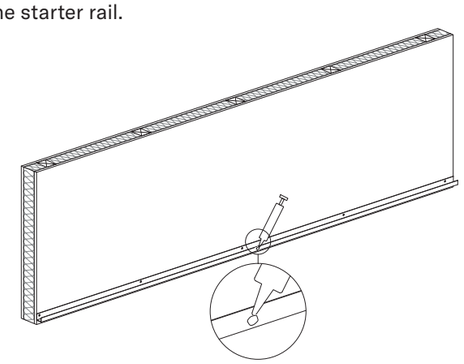
The sub frame / wall behind must be totally plumb to avoid the panel copies the imperfections of the supporting surface. PARKLEX PRODEMA recommends to install onesiding clips on flat bearing surfaces so that the panel layout is not compromised by the clip placement



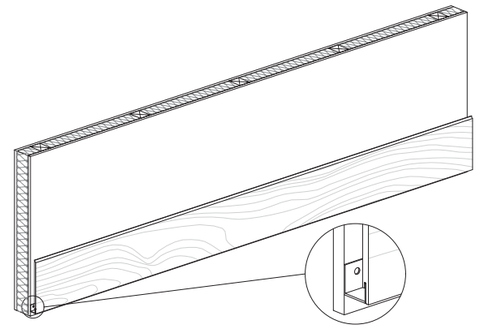
Install the Starter rail at the bottom of the facade fastening it to the supporting wall at a maximum distance of 600 mm (24”) between fasteners and making sure it is totally plumb. The maximum cantilever distance for the Starter rail is 100mm (4”).



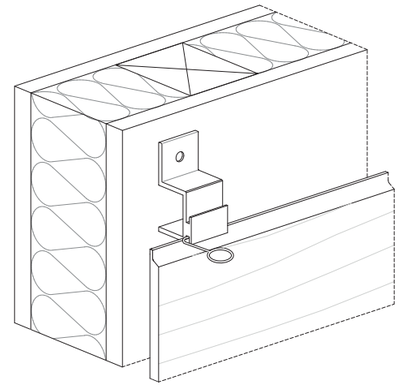
Every plank needs at least one fixed point to avoid pieces moving freely. Add a bit of adhesive for the first plank on the starter rail.



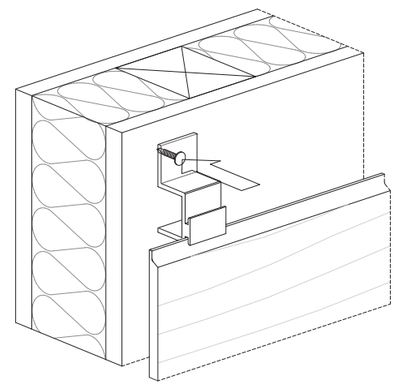
Insert the starter rail tongue into the first plank groove.



Install the first row of Onesiding clips on the installed plank, using the gauge tool in order to create a 1mm (1/16”) expansion joint between the clip and the plank.



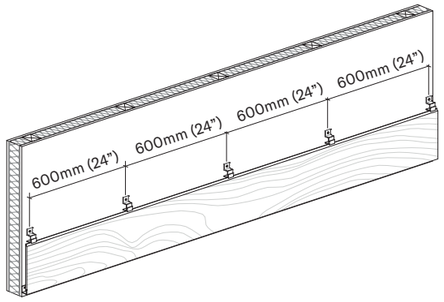
Fastening the Onesiding clips to the supporting element Use the ø 6mm (¼”) hole on the Onesiding clip to fasten it to the bearing wall behind. The fastener will depend on the material substrate and it must be provided by others.



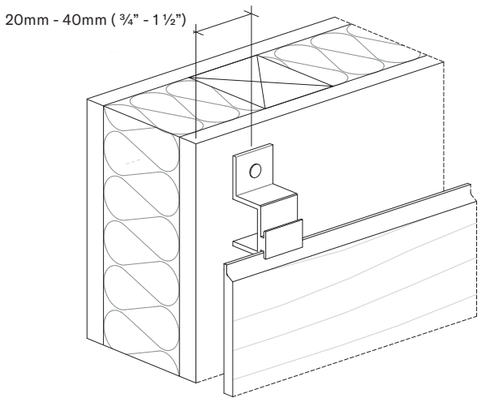
V.1. 2024/10

How to install PARKLEX PRODEMA using onesiding system

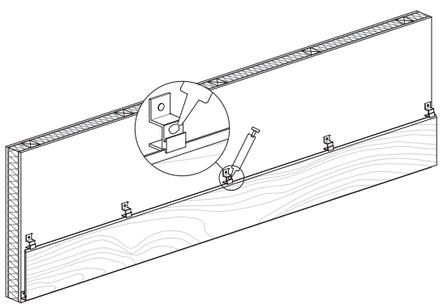
The clips must be installed at least every 600 mm (24”). Pieces shorter than 600 mm (24”) need a third supporting point in the middle.



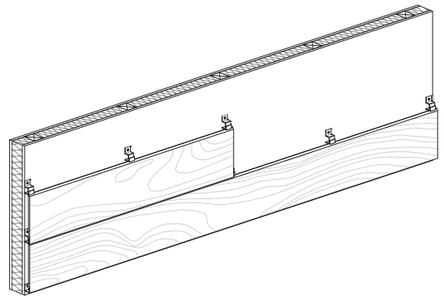
The distance between the Onesiding clips and the edge of the panel must be between 20mm (¾”) and 40mm (1 ½”).



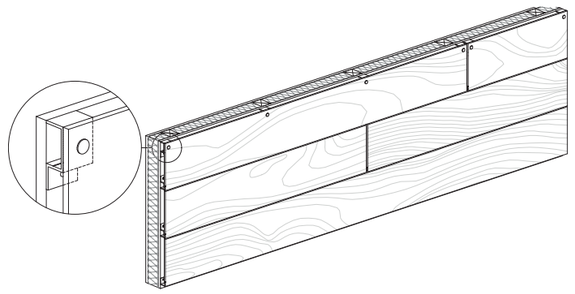
Add a bit of adhesive at least in one of the Onesiding clips per plank to avoid the pieces moving freely.



Install the rest of the plank on top of the first following the same process.

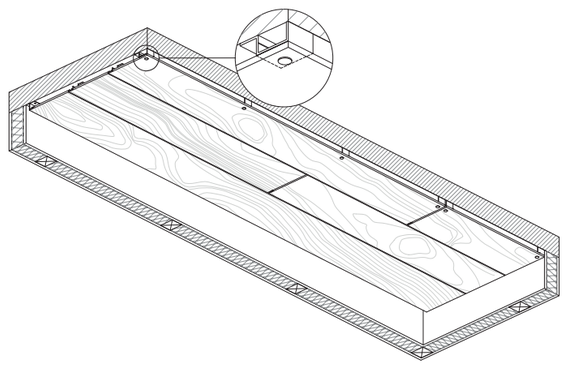


Cut the last plank to finish the facade. Use 1” Jay Shims to shim the facade. Do not use continuous rails to attach the last plank at the top, which may block the airflow behind the panel.



Soffit with Onesiding System:

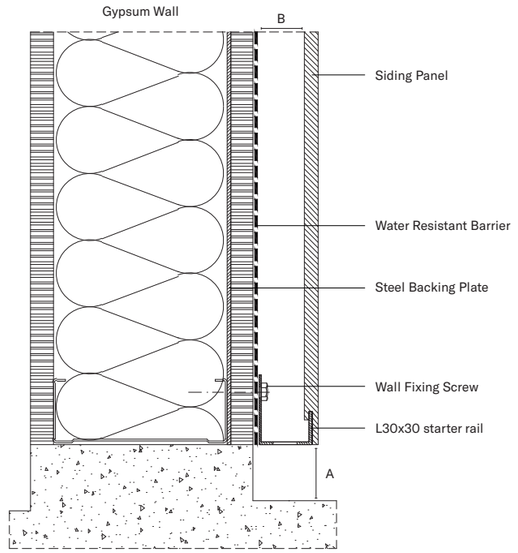
The installation of soffit with the Onesiding System follows the same installation process as horizontal Onesiding.



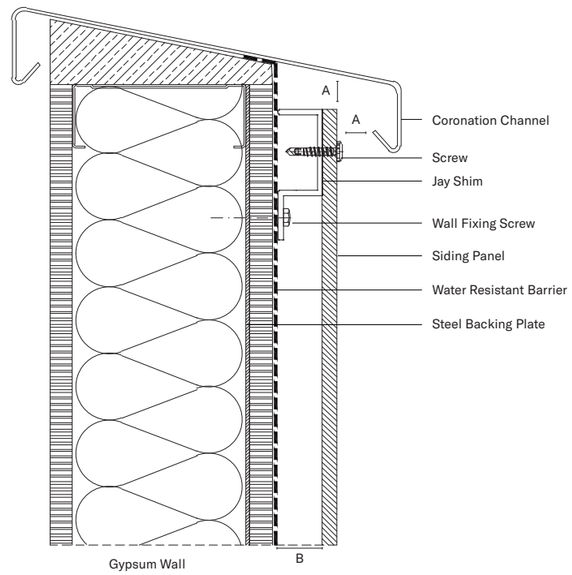
Installation details:

PARKLEX PRODEMA has an extensive range of solutions showing all types of installation details to address corners, windows, etc. All of these details are available on the Technical Area of the PARKLEX PRODEMA website.

BASE DETAIL



HEAD DETAIL

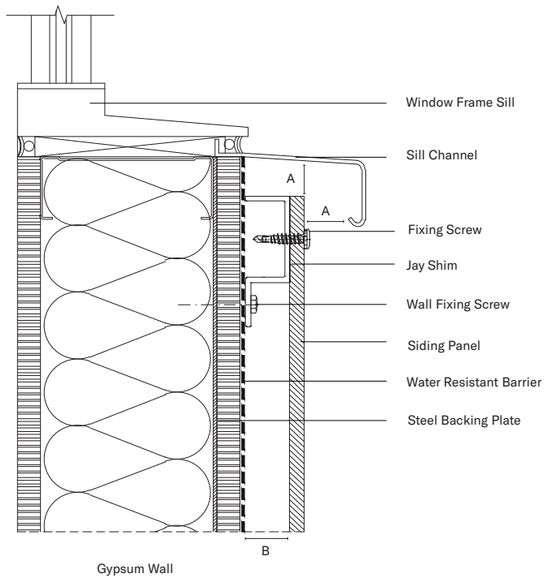


A > 20 mm (¾”)

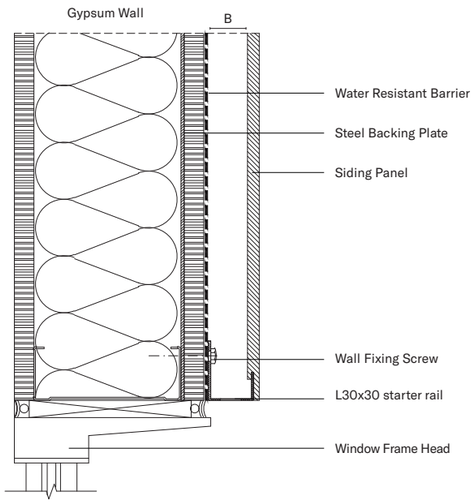
B = 25,4 mm (1”)

How to install PARKLEX PRODEMA using onesiding system

WINDOW SILL

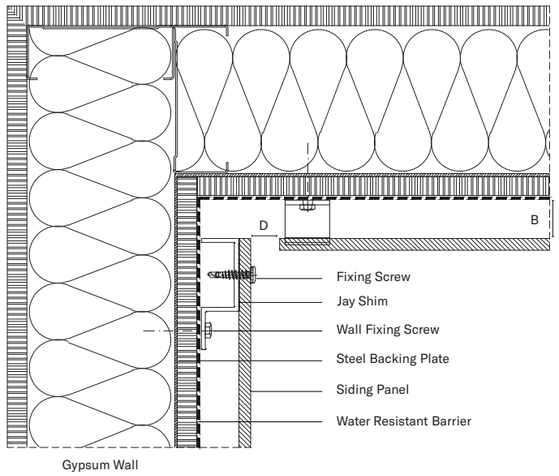


WINDOW HEAD

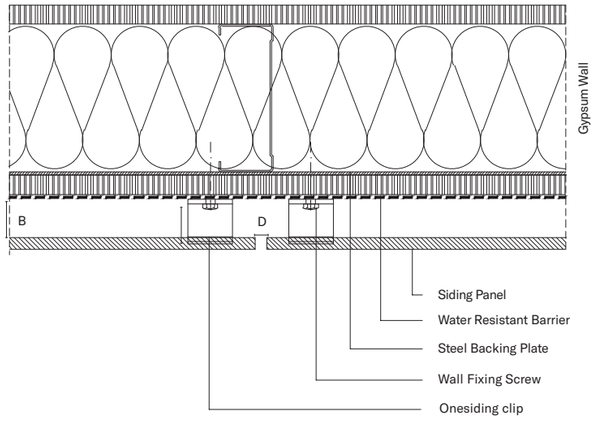


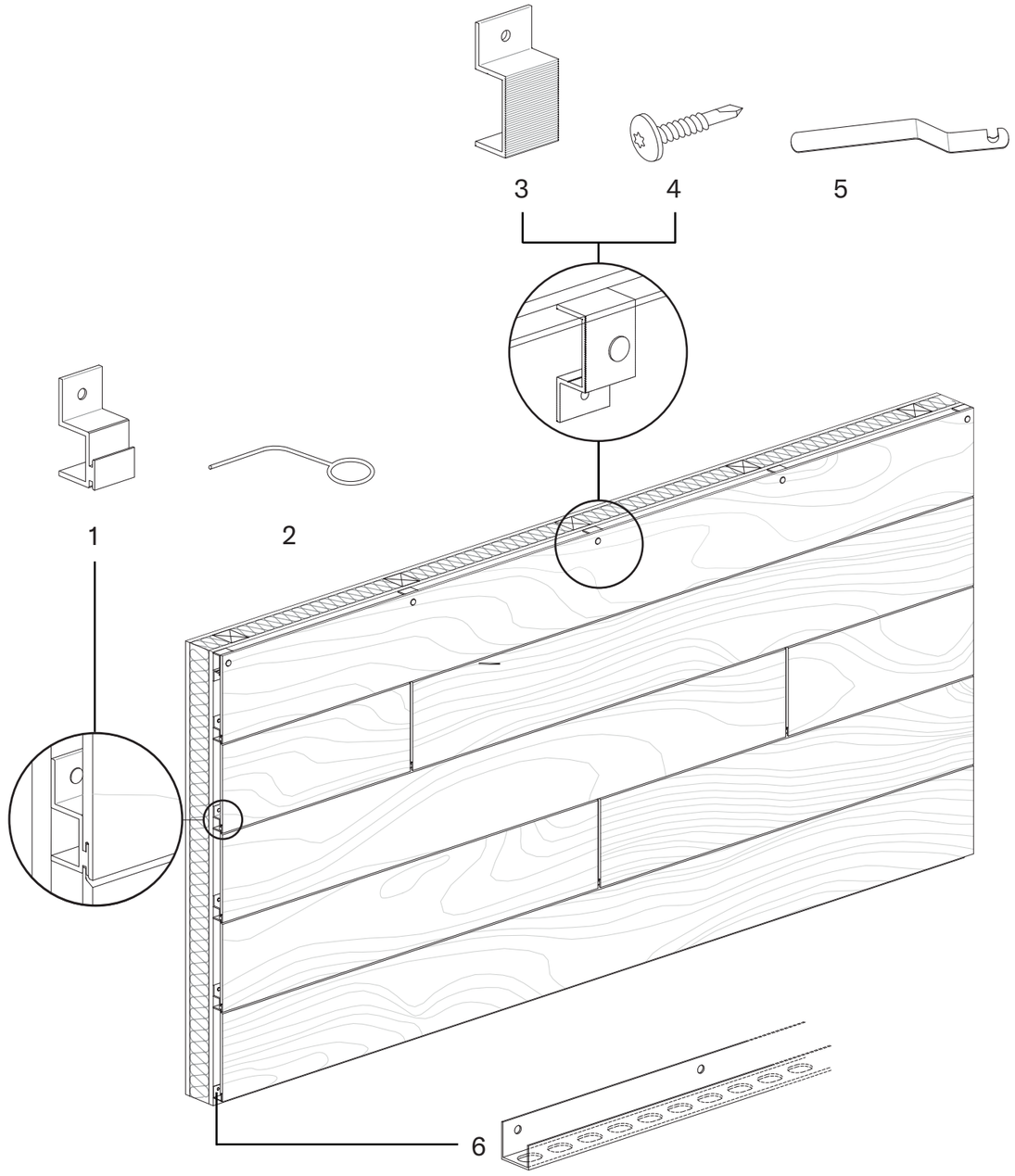
A > 20 mm (¾")
B = 25,4 mm (1")
D > 6 mm (¼")

INSIDE CORNER



VERTICAL JOINT





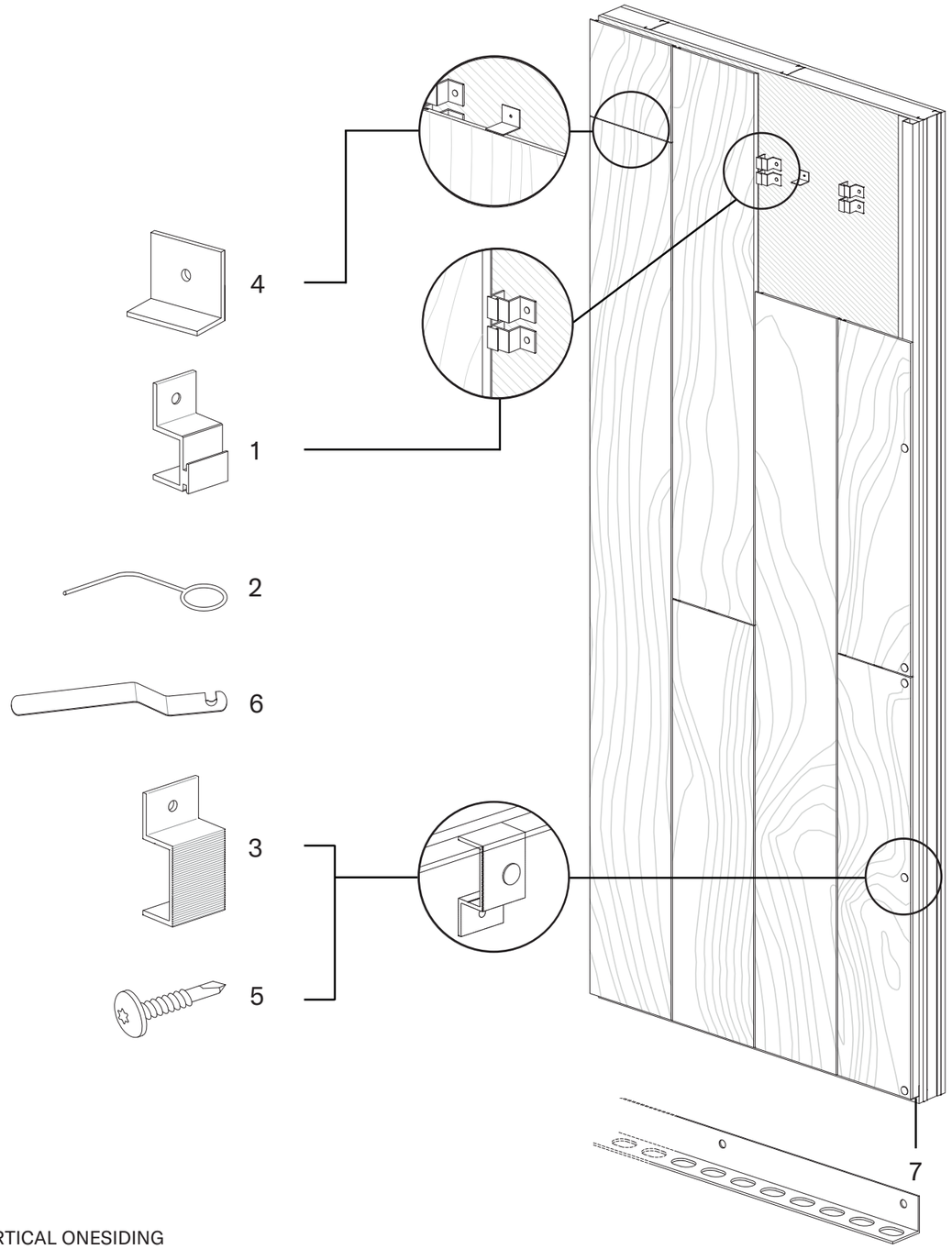
HORIZONTAL ONESIDING

1. Onesiding clip
2. Gap Gauge Tool
3. 1" Jay Shim
4. SX3 15-D12-5 TORX Screws for Metal - Painted
5. Centering Device for SX3 Screws
6. L30x30 starter rail

Available panel size:
2440mm x 137, 188, 290 mm
96" x 5.35", 7,40", 11,42"
Boreal, Chestnut and Coffee finishes:
2200 x 137, 198, 300 mm / 86,6" x 5.35", 7.80", 11.81"

Panel thickness: 8mm

How to install PARKLEX PRODEMA using onesiding system



VERTICAL ONESIDING

1. Onesiding Clip
2. Gauge Tool
3. 1” Jay Shim
4. L 30x30 Black Stopper piece - Vertical Applications
5. SX3 15-D12-5 TORX Screws for Metal - Painted
6. Centering Device for SX3 Screws
7. L30x30 stopper rail

Available panel size:
2440mm x 137, 188, 290 mm
96” x 5.35”, 7,40”, 11,42”
Boreal, Chestnut and Coffee finishes:
2200 x 137, 198, 300 mm / 86,6” x 5.35”, 7.80”, 11.81”

Panel thickness: 8mm