IBEO-250

ASSEMBLY SHEET FOR FACADES

DESCRIPTION

All the components of the IBEO-250 system have been designed with the aim of guaranteeing simple, clean, fast and safe assembly.

The slats incorporate an ideal tongue and groove joint system, which means that they only need to be screwed to the top flange of the supporting profiles, reducing the number of screws required by half.

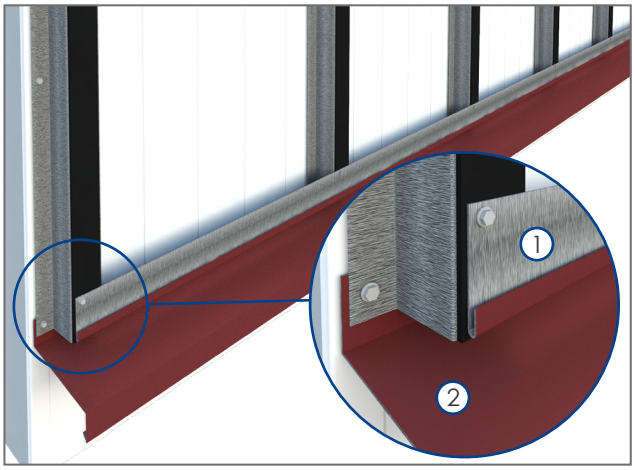
The O-250 louvres and trims are supplied cut to size, in accordance with the exploded view of each façade, so it is not necessary to cut or modify them on site, thus speeding up the assembly process.

All the joints of the system are also made using a single type of self-drilling screw, thus avoiding possible errors.

PHASE 1 / ASSEMBLY OF THE O-250 SUPPORTING PROFILES AND FAÇADE STARTING

1.1 Fix the O-250 vertical supporting profiles to the support wall (or panel). The maximum distance between vertical profiles is given in the system load tables, depending on the design wind loads.

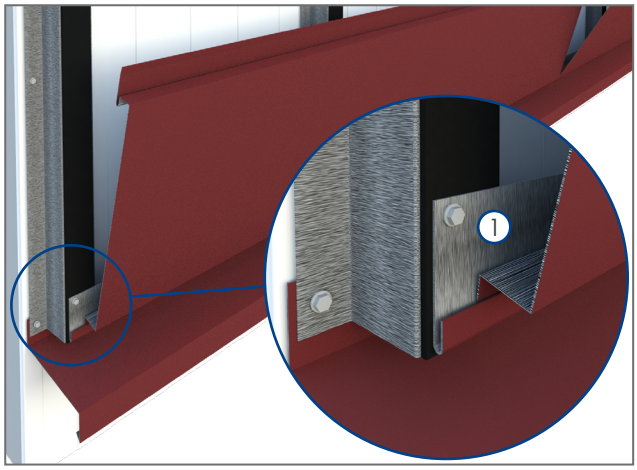
1.2 Screw the two profiles (1) and (2) of the façade bottom detail, making sure that the screw fixing profile (1) is placed as high as possible.

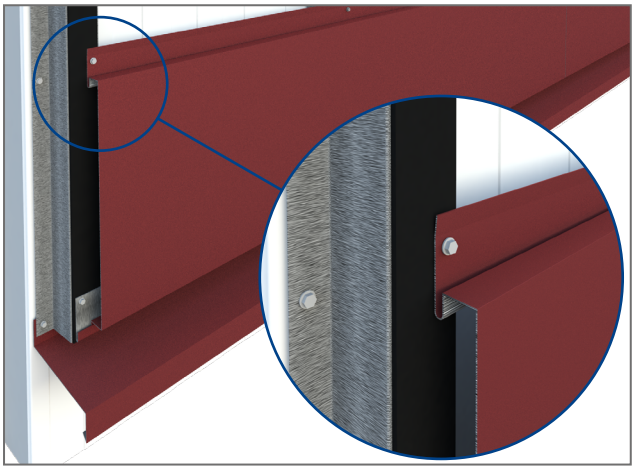


PHASE 2 / ASSEMBLY OF THE FIRST ROW OF O-250 PLANKS

2.1 Insert the lower flange of the plank into the profile (1), tilting the plank slightly. Do not screw here.

2.2 Screw only the upper flange of the plank to the vertical supporting profile, placing a screw per connection to the vertical profiles.





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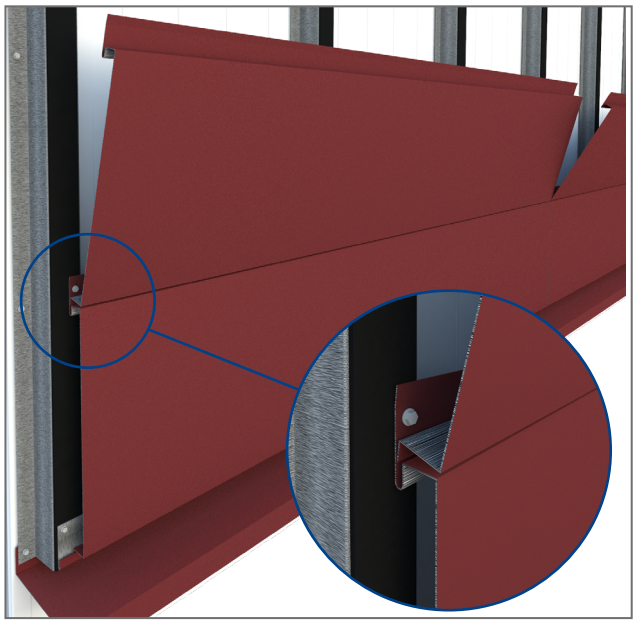
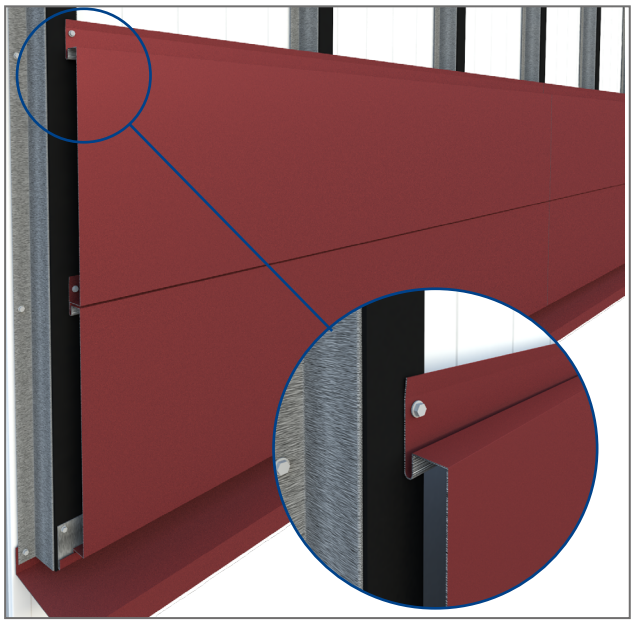
IBEO-250
ASSEMBLY SHEET FOR FACADES

PHASE 3 / ASSEMBLY OF THE SECOND AND FOLLOWING ROWS OF THE O-250 PLANKS

3.1 Insert the lower flange of the plank into the groove of the existing lower plank, tilting the plank slightly. Do not screw here.



3.2 Screw only the upper flange of the plank to the vertical supporting profile, placing a screw per connection to the vertical profiles.



FIXING SCREWS

The use of self-drilling screws is recommended for all the joints between the different components of the IBEO-250 system. With this type of screw there is no need to pre-drill. They can be either hexagonal or flat headed.

The screws shall have a diameter of 5.5 mm, with a length of not less than 22 mm, and with a drilling capacity of at least 3mm of steel.

ASSEMBLY CLEARANCES

All metal cladding for façades undergo expansion and contraction deformations due to the thermal gradient between night and day temperature and the effect of direct insolation, among other factors.

In order to enable the proper expansion of the O-250 planks it is thus necessary to provide an assembly clearance between the planks. This clearance will be larger for higher thermal gradients.

In the case of dark colored planks (80°C gradient), a minimum clearance of 1 mm per linear meter of plank will be provided.

In the case of light colored planks (41°C gradient), a minimum clearance of 0.5 mm per linear meter of plank will be provided.

Thus, for example, in the case of using white planks 6 m long, a clearance of 3 mm per plank will be left.

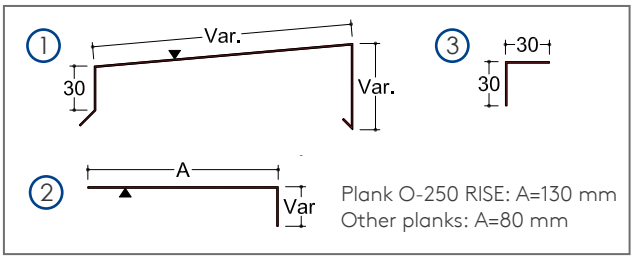
IBEO-250
FLASHINGS RANGE

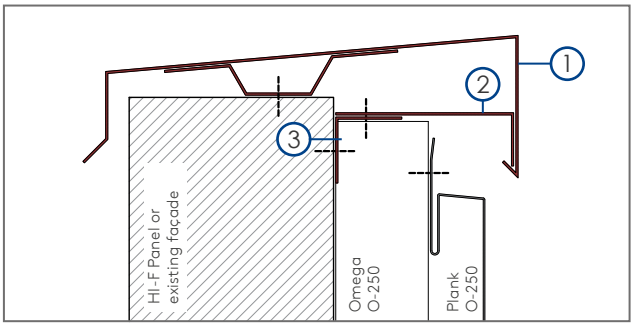
DESCRIPTION

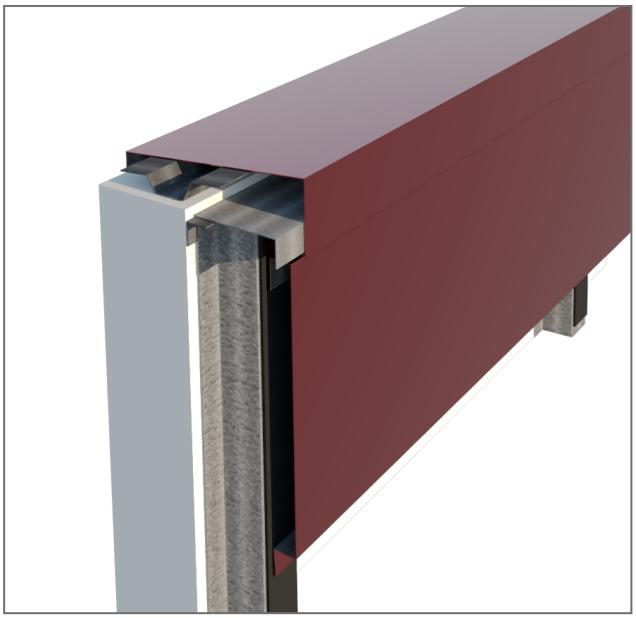
The range of **O-250** flashings has been specifically developed for the system and covers the most common constructive details. Kingspan | Teczone also manufactures custmomised flashings tailored to special project requirements.

Manufactured in high quality S220GD steel with lengths up to 6 m, and with the same thicknesses, coatings and colors as the planks, the **O-250** flashings are the ideal complement for the execution of thermally efficient ventilated façades with a distinctive aesthetic quality.

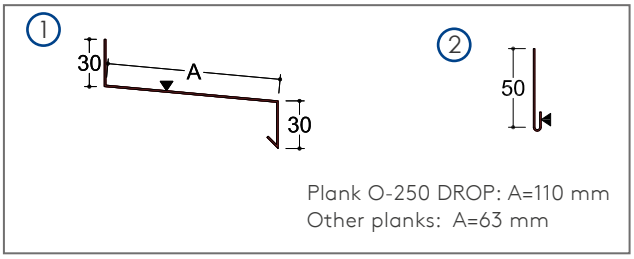
DET. 01 / COPING FLASHING

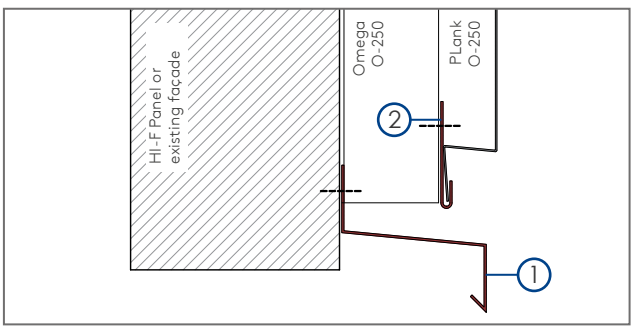


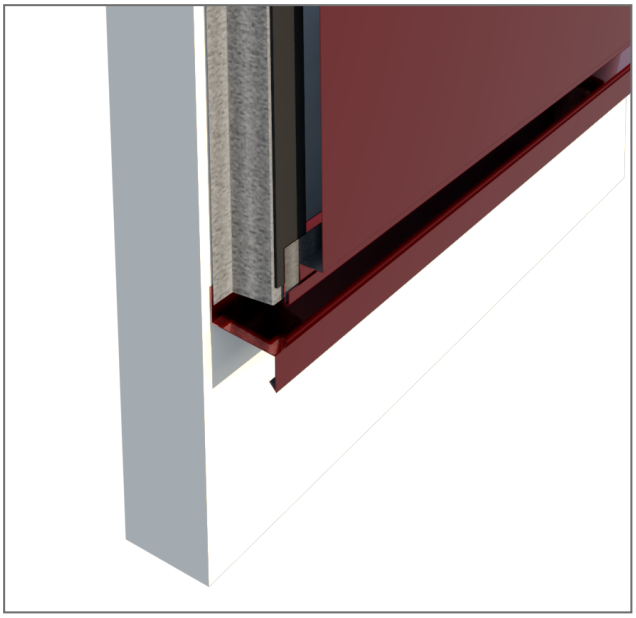




DET. 02 / FAÇADE BOTTOM DETAIL







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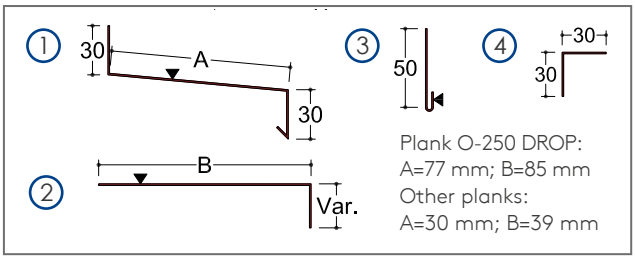
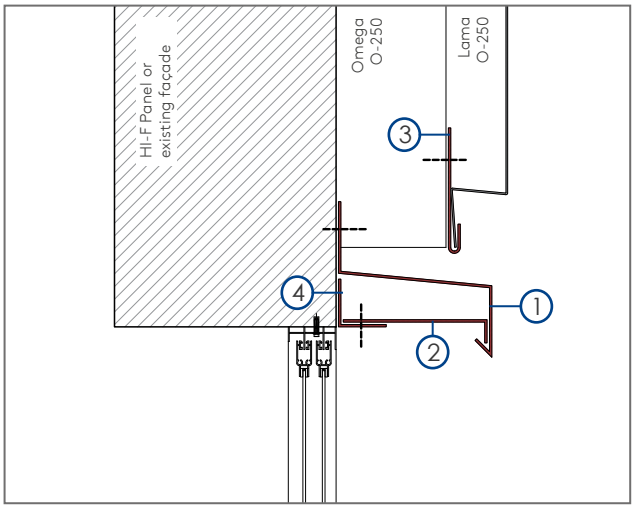
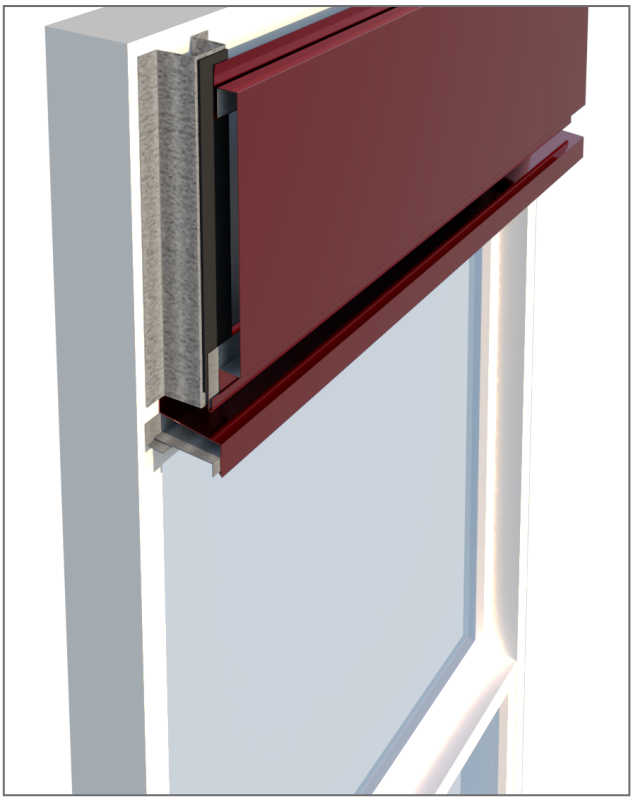
IBEO-250
FLASHINGS RANGE

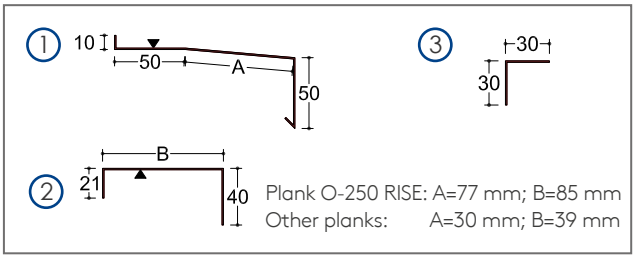
DET. 03 / OPENING - HEAD JAMB

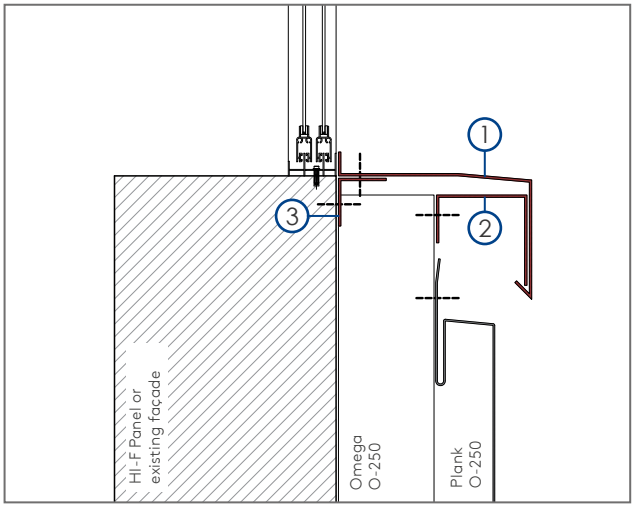






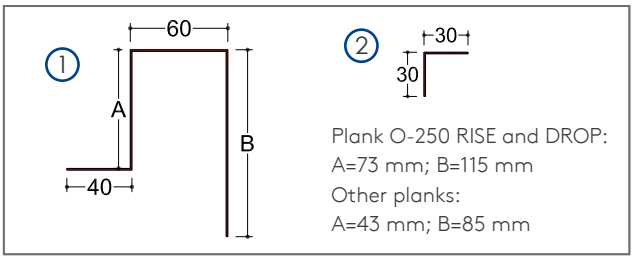
DET. 04 / OPENING - LOWER HORIZONTAL DRIP



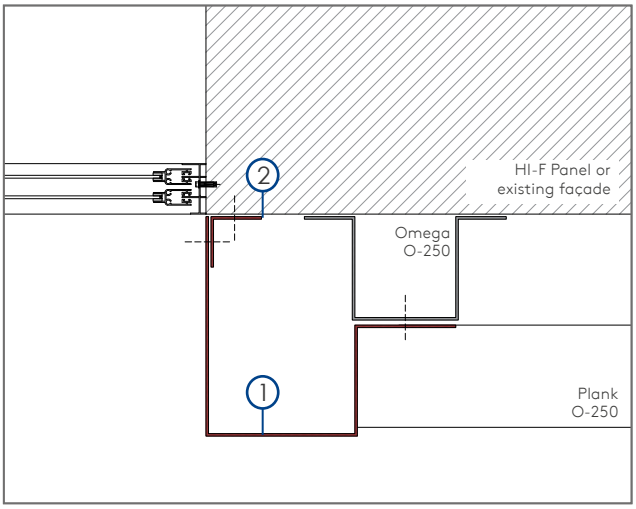


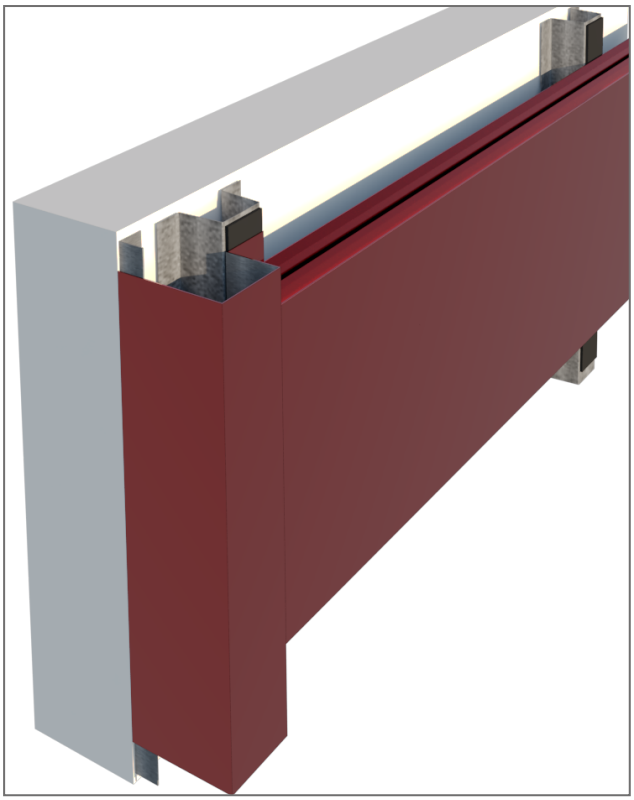
IBEO-250
FLASHINGS RANGE

DET. 05 / OPENING - VERTICAL JOIN

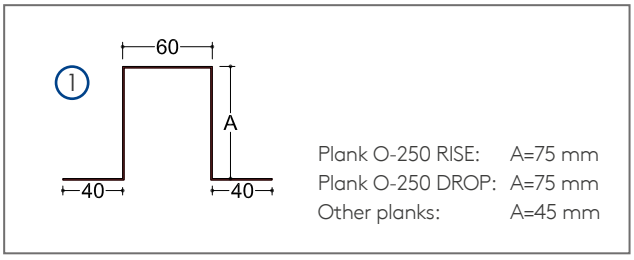


Plank O-250 RISE and DROP:
A=73 mm; B=115 mm
Other planks:
A=43 mm; B=85 mm

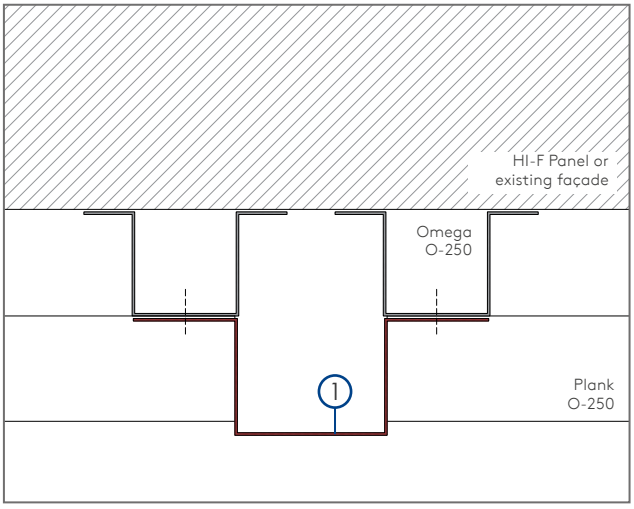


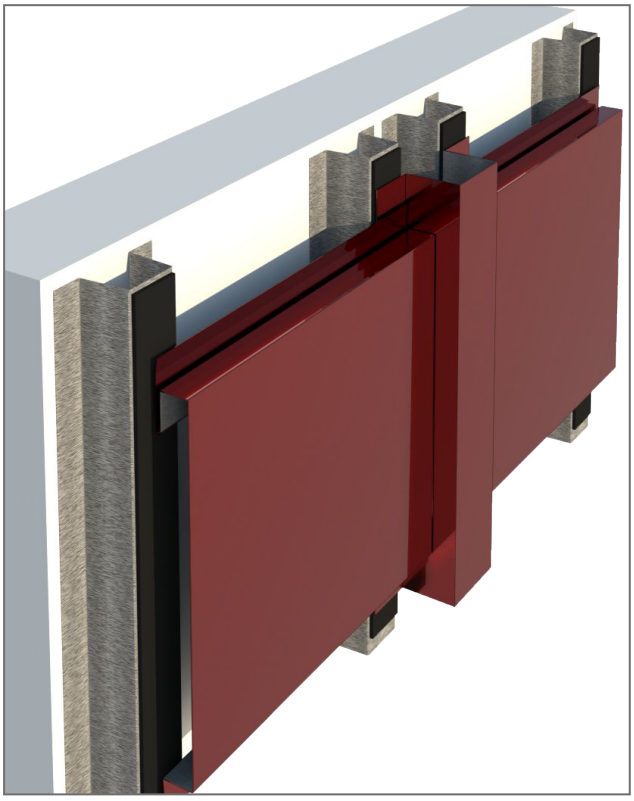


DET. 06 / VERTICAL JOINT BETWEEN PLANKS - OUTWARD OMEGA



Plank O-250 RISE: A=75 mm
Plank O-250 DROP: A=75 mm
Other planks: A=45 mm





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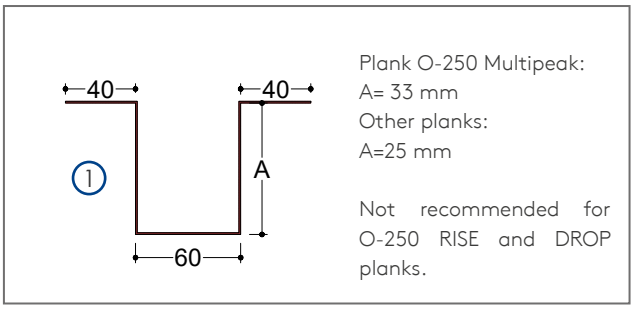
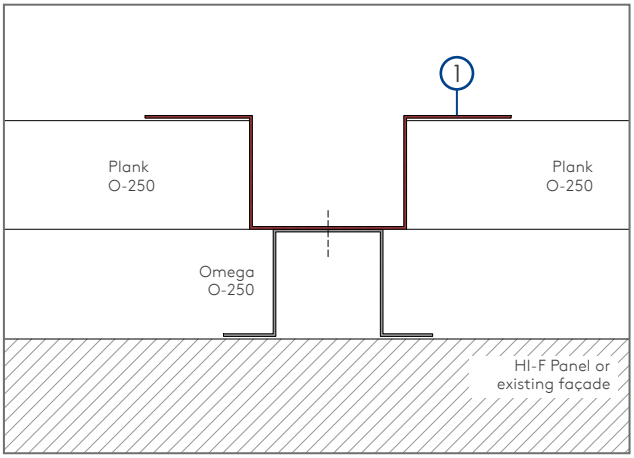
IBEO-250
FLASHINGS RANGE

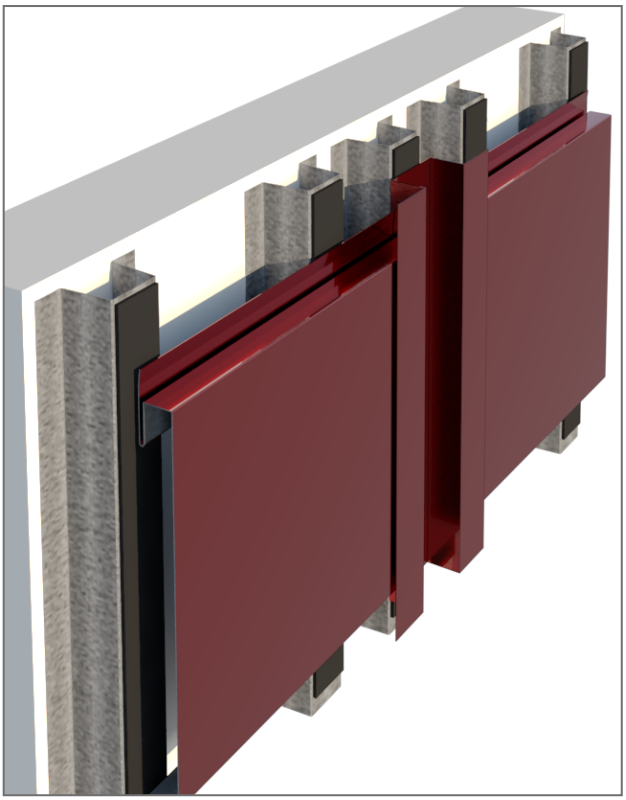
DET. 07 /VERTICAL JOINT BETWEEN PLANKS - INWARD OMEGA



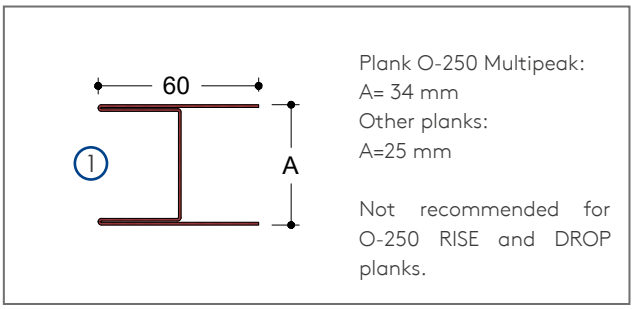
Plank O-250 Multipeak:
A= 33 mm
Other planks:
A=25 mm

Not recommended for O-250 RISE and DROP planks.



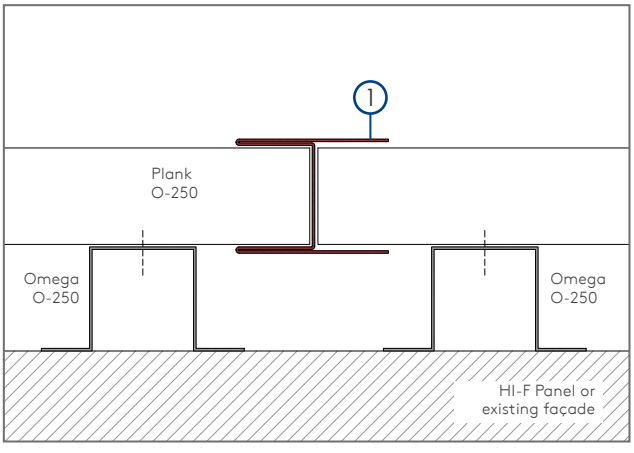


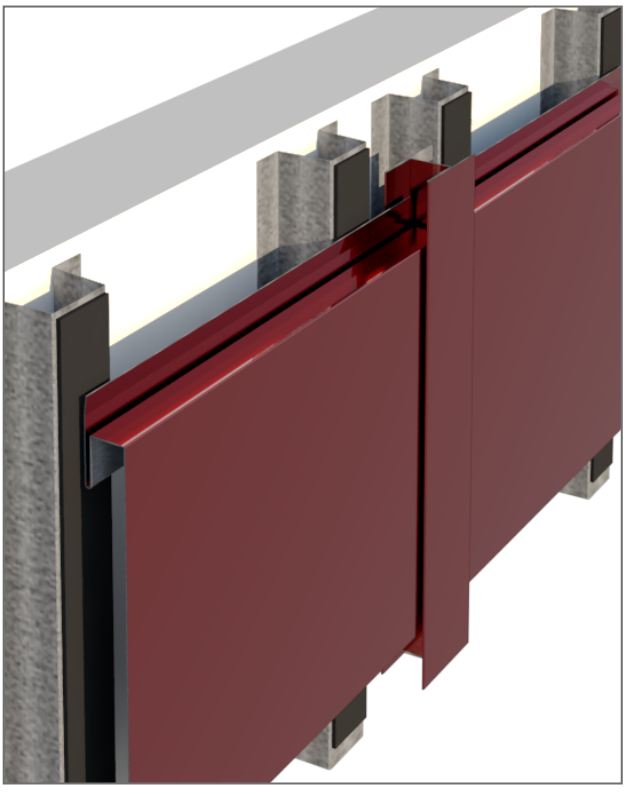
DET. 08 /VERTICAL JOINT- H PROFILE



Plank O-250 Multipeak:
A= 34 mm
Other planks:
A=25 mm

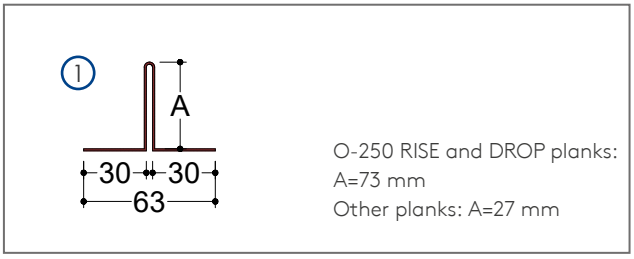
Not recommended for O-250 RISE and DROP planks.



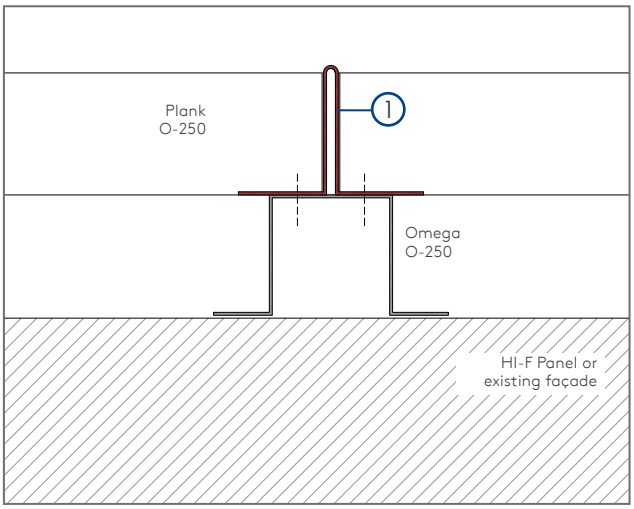


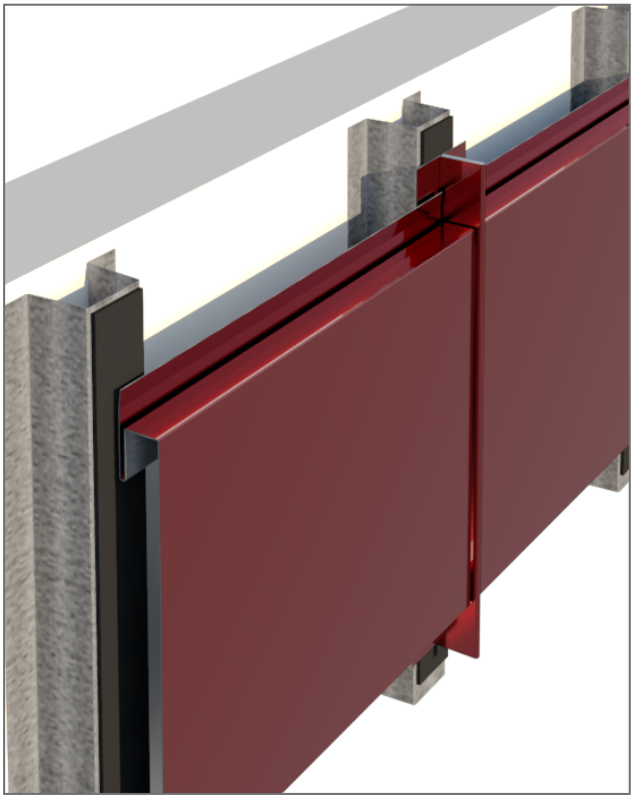
IBEO-250
FLASHINGS RANGE

DET. 09 /VERTICAL JOINT - OUTWARD T-PROFILE

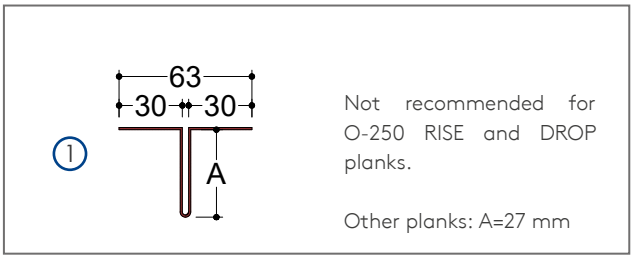


O-250 RISE and DROP planks:
A=73 mm
Other planks: A=27 mm



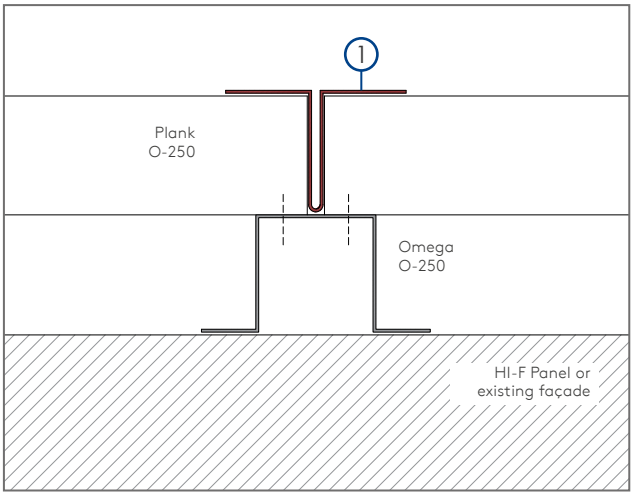


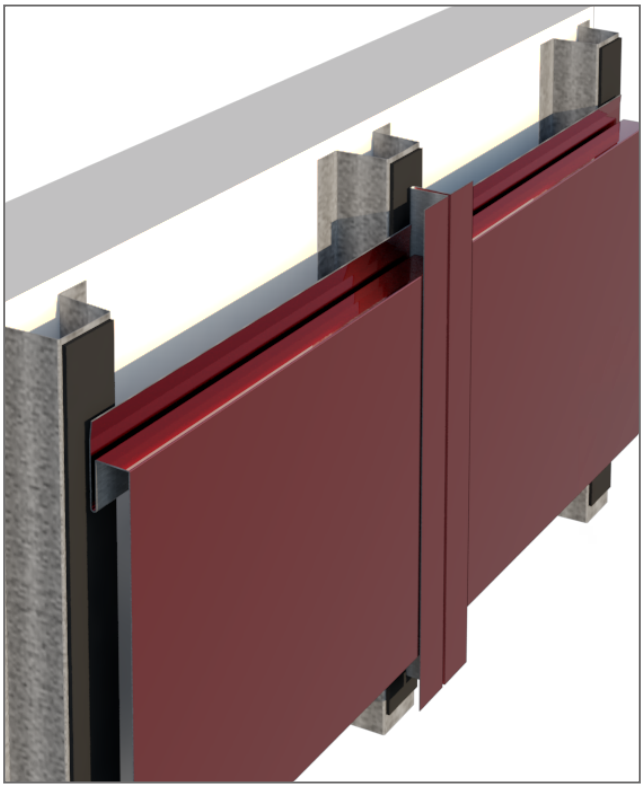
DET. 10 /VERTICAL JOINT - INWARD T-PROFILE



Not recommended for O-250 RISE and DROP planks.

Other planks: A=27 mm





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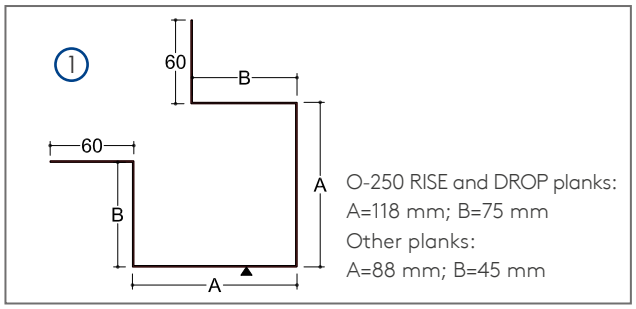
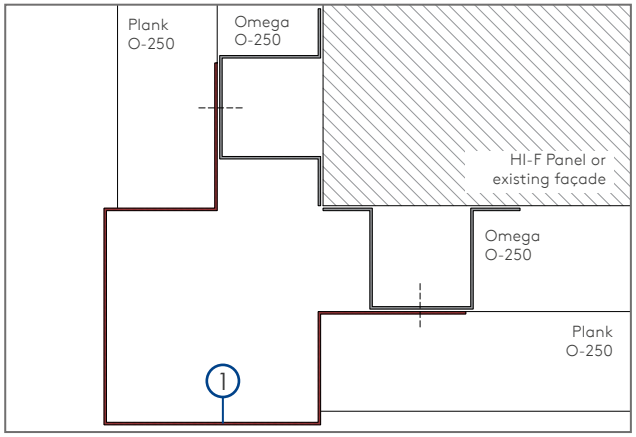
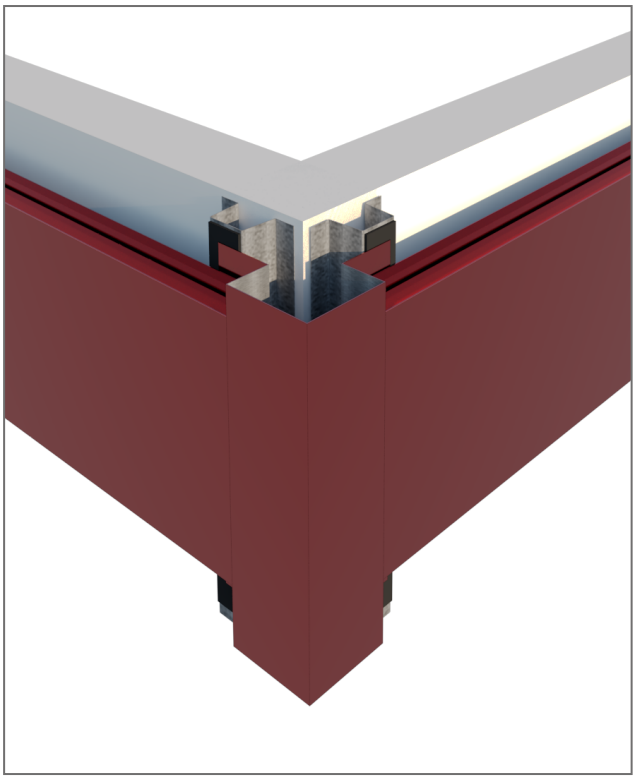
IBEO-250
FLASHINGS RANGE

DET. 11 / EXTERNAL CORNER

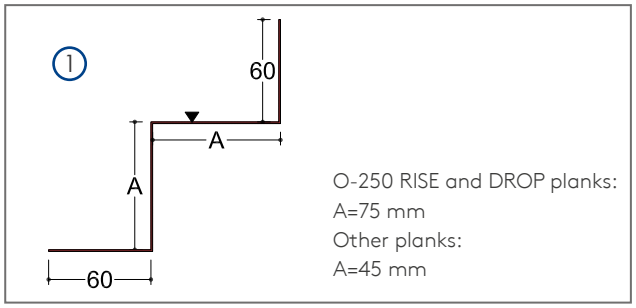


O-250 RISE and DROP planks:
A=118 mm; B=75 mm
Other planks:
A=88 mm; B=45 mm

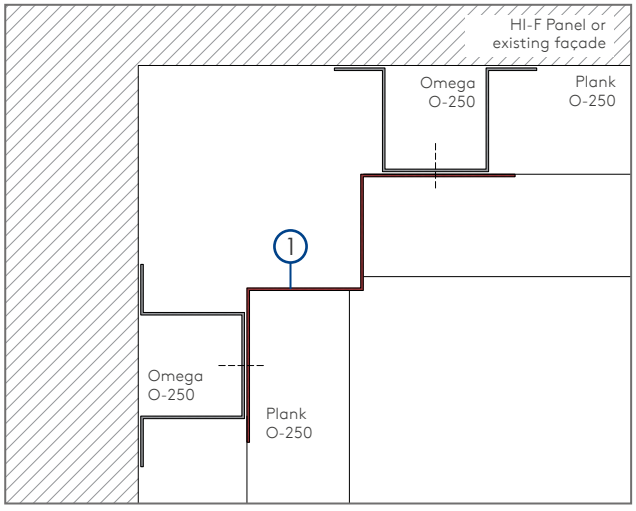


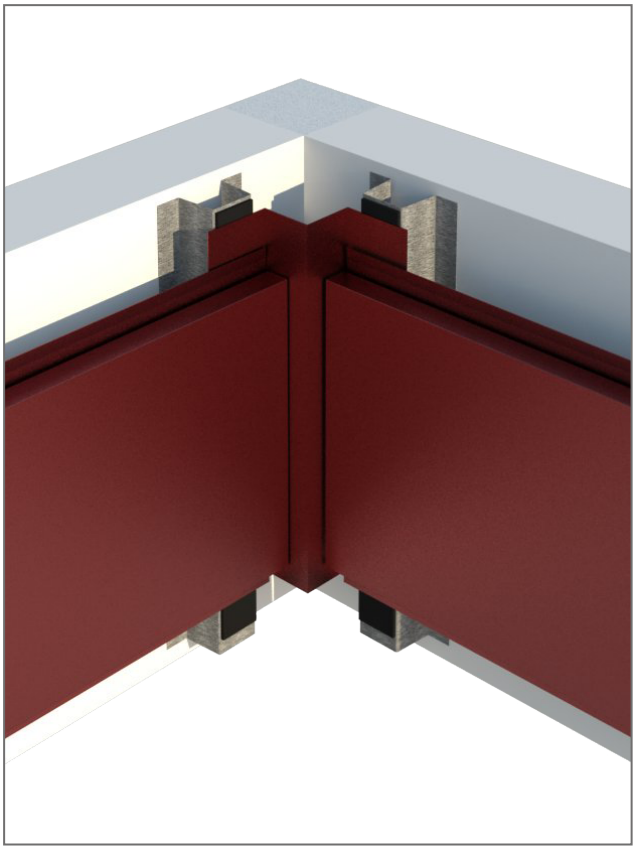


DET. 12 / INTERNAL CORNER



O-250 RISE and DROP planks:
A=75 mm
Other planks:
A=45 mm





IBEO-250

FLASHINGS RANGE

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