

The vertical profiles and the panels should not bridge across building (floor) movement joints.

Fasteners at the sliding point must be installed centered on the slotted holes to allow the profile to expand/contract freely without creating stress in the profile or fasteners.

Optional
F-715Q profile Omega-S RAL7021

Refer to Agrob Buchtal Technical Approval for more information.

GENERAL NOTES

Movement joints in rails and panels must allow for thermal expansion/contraction of the building structure. The maximum length of the rails as the number and spacing of attachment points should be specified by project-specific calculations. All fasteners should be 300 series stainless steel or as recommended by the fasteners manufacturer for exposure to weather. Minimum spacing and edge distance of fasteners must comply with code practice and manufacturer's requirements, and should be confirmed in the design.

Fasteners at fixed points must be installed in the round holes.

For each vertical profile there is only one fixed point; all others are sliding points.

The length of the vertical profiles should reflect the height of the panels that will be attached to them. It is recommended that the length of the vertical profiles does not exceed the floor height.

The Omega rails must not bridge across the gap between two vertical profiles.

Optional - closed joint
Do not use at movement joints.

F-688Q joint profile RAL7021
F-689 holding clip for joint profile

Thermo-pad

Fastener project-specific

Wall bracket

Profile T

MOVEMENT JOINT

8 $\left[\frac{3}{16}\right] \pm$

20 $\left[\frac{3}{16}\right]$

from 69 to 285

from $2\frac{3}{4}$ " to $11\frac{1}{16}$ "

Use the appropriate bracket size to meet the exterior insulation requirements, ventilation gap and the necessary adjustment range. Refer to the wall brackets manual for available sizes, hole configurations, and range of adjustment.

Self-drilling screw Ø4.8x19 (#10-16x3/4) HWH

23.6 $\left[\frac{15}{16}\right]$

10 $\left[\frac{3}{8}\right]$

grid size

grid size

F-627Q Omega rail, unpainted

Terracotta panel Agrob Buchtal KeraTwin K20

Self-drilling screw Ø4.8x16 (#10-16x3/4) PH

F-711Q position securing bracket

10 $\left[\frac{3}{8}\right]$

grid size

grid size

Increase movement joint size if required by project-specific conditions.

The horizontal rails and the panels should not bridge across building movement and seismic joints.

8 $\left[\frac{3}{16}\right] \pm$

8 $\left[\frac{3}{16}\right] \pm$

41 $\left[\frac{15}{8}\right]$

8 $\left[\frac{3}{16}\right]$

5 $\left[\frac{3}{16}\right]$

63 $\left[2\frac{1}{2}\right]$

31 $\left[1\frac{1}{4}\right]$

99 $\left[3\frac{7}{8}\right]$

grid size

grid size

The panels must not bridge across the gap between two rails.

> If rails with slotted holes are used, they should be fixed at mid-length (fixed point) and allowed to expand toward the ends using slotted holes (sliding points).

> The slotted holes are suitable for self-drilling screw Ø4.8x19 mm (#10-16x3/4).

> The number of fasteners to be specified by project-specific calculations.

FIXED POINT (ONE PER RAIL)

55 $\left[2\frac{3}{16}\right]$ min

35 $\left[1\frac{3}{8}\right]$

35 $\left[1\frac{3}{8}\right]$

Fasteners must be installed in the opposite ends of the slotted holes or in the solid area between the holes, considering fastener's minimum installation distances.

Do not use edge of rails as a reference point.

When installing the F-627Q omega rails, as a reference point must be used the upper edge of the hooks.

SLIDING POINT

The diagram illustrates a sliding point connection. It features a horizontal rail with a central slot. A fastener is shown centered within this slot. The dimensions are as follows:

- The total width of the rail is 55 [2 3/16"] min*.
- The distance from the center of the fastener to the inner edge of the slot is 35 [1 3/8"] on both sides.

Fastener must be installed centered on the slotted hole to allow the rail to expand/contract freely.

*The flange of verticals should be wide enough to accommodate the number of screws, the minimum edge distance, as well as installation tolerances.

Slotted holes are spaced at 35 mm [1 3/8"] O.C.

[illegible]

This technical drawing shows a cross-section of a window frame. The frame is composed of several parts, including a main frame and a sash. The sash is shown in a closed position, with the glass pane visible. The drawing illustrates the internal structure of the frame, including the frame, glass, and insulation. The frame is shown with a double-pane structure, and the glass is shown with a double-pane structure. The insulation is shown as a layer between the frame and the glass. The drawing is a detailed technical illustration of a window frame cross-section.