Trimless drywall profile / preparation and fixing

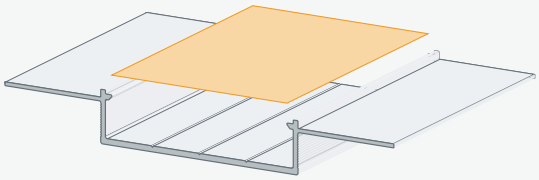
Flanged recessed installation | Mesh and plaster finish | Compatible opal diffuser

SECTION / KEY DIMENSIONS



Profile section: 1655 ASL. Orange: schematic diffuser.

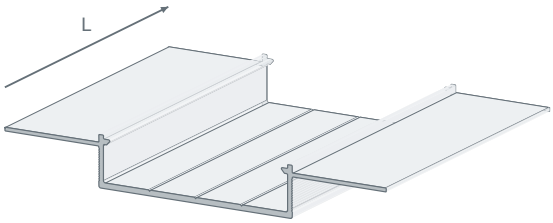
PROFILE + OPAL DIFFUSER



3D view looking into the open LED channel.

Before starting: Disconnect the power. Plan the profile, LED strip, diffuser, drywall and supporting structure together.

1 Measure and cut



Cut the profile and diffuser separately.

Determine the length and joint positions. Cut square and remove burrs. Dry-fit the joints before installation.

2 Prepare the opening and support

Check the drywall and supporting structure first.

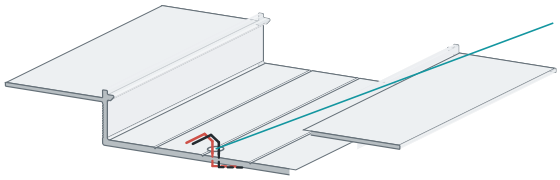


B: opening for body and fitting clearance

Prepare an opening for the body and check with a sample. Overall flange width is not the drywall cut-out size. Provide suitable support behind the drywall.

3 Prepare the cable entry

Hole near the end

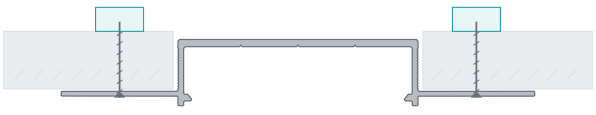


3D close-up: page 3.

Drill through the rear base near the cut end. Smooth the edges, remove swarf and feed the cable through. Keep the LED area clear.

4 Align and fix

Suitable supporting structure



Fix through the flanges; do not bend the body.

Align the profile level and fix the flanges to a suitable support. Select screw type and spacing for the substrate. Do not rely on plaster for fixing.

KEY INSTALLATION RULE

Verify the opening, drywall thickness and fixing arrangement with a sample. This guide does not specify a fixed fitting clearance or screw spacing.

Mesh, plaster and final fitting

Flanges finished into the surface | Clean LED bed | Continuous line of light

5 Protect the LED channel



Keep dust and paint out of the fitting grooves.

Fit the LED and diffuser only after building work is complete. Temporarily cover the opening; keep dust and paint away from the fitting surfaces.

6 Apply mesh and plaster

Apply mesh along both flanges.



Align the channel opening to the finished surface.

Apply compatible mesh along the flanges. Finish into the surface to the plaster-system instructions. Keep the channel opening and diffuser seating clear.

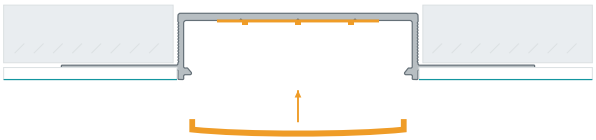
7 Remove protection and clean



The LED bed must be clean, dry and flat.

Allow the specified plaster drying time, then sand, prime and paint. Remove the protection and clean dust and residue from the LED bed.

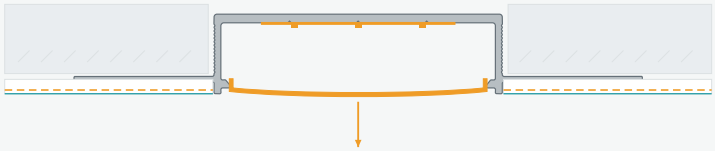
8 Fit the LED and diffuser



Check the fitting direction with a sample.

Bond a compatible LED strip to the channel base and connect it. Test operation, then disconnect the power and fit the diffuser without forcing it.

FINISHED CEILING SECTION



Light towards the room

Flanges remain beneath the plaster.
Visible part: the line of light.

For wall installation, rotate the section on the same principle.

FINAL CHECKS AND CARE

Check: Confirm profile straightness, joint alignment, full diffuser engagement and light continuity. Do not trap the cable. Keep connections accessible for maintenance.

Care: Disconnect the power before cleaning and use a soft cloth. Do not pull the profile body out. Remove the diffuser without damaging the fitting surfaces.

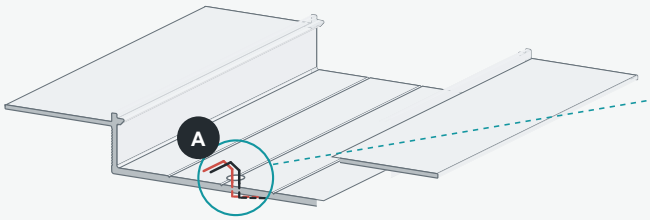
Dimensions in mm. Installation details are schematic.

Cable routing / 3D installation detail

Cable entry into the LED channel through a rear-base hole near the end.

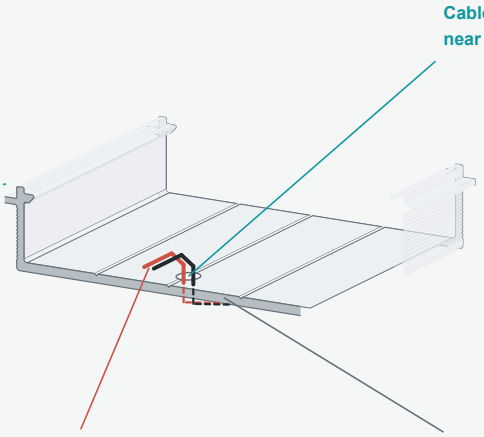
HOLE NEAR THE END / CABLE EXIT INSIDE THE CHANNEL

1655 ASL / OVERVIEW



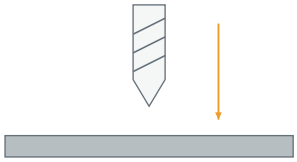
Side wall partly removed to show the internal detail.

A / ENLARGED PARTIAL SECTION



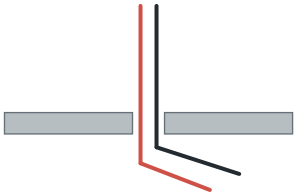
Dashed line: cable approach at the rear. Hole position and diameter are schematic. LED strip and diffuser are not yet fitted.

1 Drill and clean



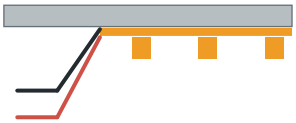
Drill near the cut end, leaving enough material at the edge. Remove all burrs and swarf before installation.

2 Feed the cable



Size the hole to suit the cable. Smooth the edges; route the cable clear of retaining tabs and fixing points.

3 Connect the LED



Do not position the hole beneath the LED strip. Connect + / - to match the strip; keep strain off the connection.

ELECTRICAL CONNECTION



Mains connection must be made by a qualified electrician. Select voltage, polarity, power and cable to the LED / power-supply instructions. Keep the power supply accessible and ventilated.

Arma 1655 ASL. Installation drawings are schematic. The diffuser, LED, screws and cable illustrate the assembly. Screw spacing and hole diameter depend on the project.