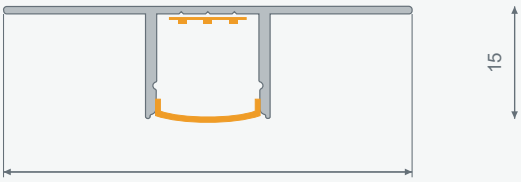
Shadow-gap profile / preparation and fixing

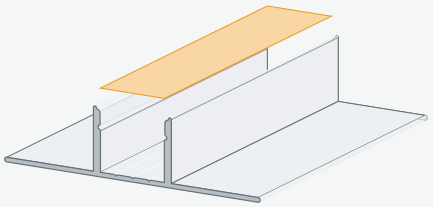
Rear screw fixing | No plaster | Compatible opal diffuser

SECTION / KEY DIMENSIONS



Profile section: 1616 ASL. Orange: schematic diffuser.

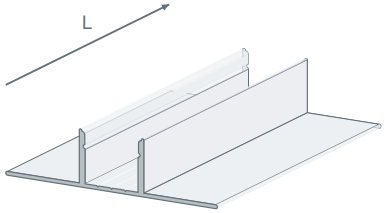
PROFILE + OPAL DIFFUSER



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 drywall opening

Check the drywall and supporting structure first.

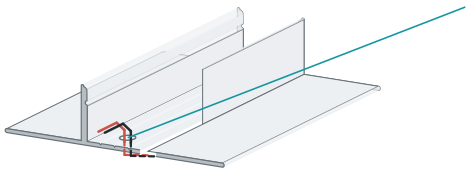


B: opening for body and fitting clearance

Prepare an opening for the channel body and check with a sample. The flanges sit behind the drywall. Overall flange width is not the cut-out size.

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 Screw-fix from the rear

Fasten with screws from the rear.



The flanges remain behind the drywall.

Position the profile from behind before closing the drywall assembly. Screw-fix the flanges. Select screw length to suit the drywall and support.

KEY INSTALLATION RULE

This model is screw-fixed from the rear. Do not apply mesh or plaster to its flanges. Check drywall thickness and alignment of the channel opening with the finished surface before installation.

Closing the drywall assembly and final fitting

Plaster-free shadow gap | Keep the channel opening clean and accessible

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 Close and check the drywall

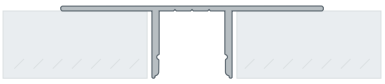
No plaster or mesh is applied.



Align the channel opening to the finished surface.

Check the fixing and close the drywall assembly. Verify the opening and alignment. The flanges remain behind the drywall; no plaster or mesh is applied.

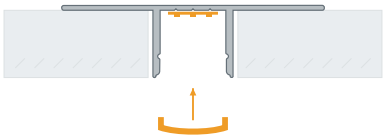
7 Remove protection and clean



The LED bed must be clean, dry and flat.

Remove the protection after surrounding surface work is complete. Clean dust and residue from the LED bed, then check the cable.

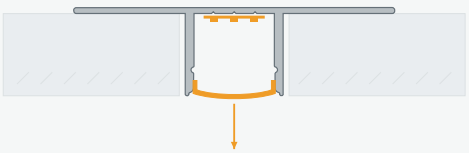
8 Fit the LED and diffuser



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 sit behind the drywall.
No plaster / visible 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.

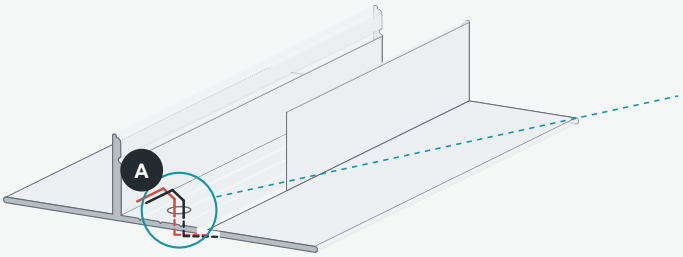
Dimensions in mm. Installation details are schematic.

Cable routing / 3D installation detail

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

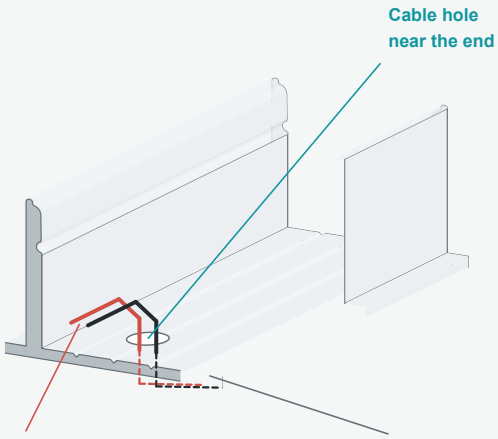
HOLE NEAR THE END / CABLE EXIT INSIDE THE CHANNEL

1616 ASL / OVERVIEW



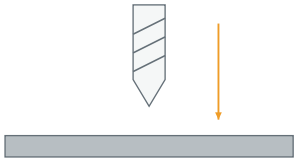
Side wall partly removed to show the internal detail.

A / ENLARGED PARTIAL SECTION



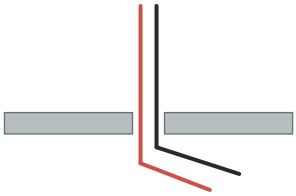
Dashed line: cable approach at the rear. Hole position and diameter are schematic. LED strip and diffuser are not yet fitted.

1 Drill and clean



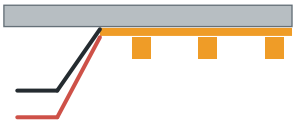
Drill near the cut end, leaving enough material at the edge. Remove all burrs and swarf before installation.

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 1616 ASL. Installation drawings are schematic. The diffuser, LED, screws and cable illustrate the assembly. Screw spacing and hole diameter depend on the project.