node

Recessed Channel Installation Guide

PARC
A Price Company

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NODE RECESSED CHANNEL INSTALLATION GUIDE

v002

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Read and save these instructions.

Warning! To reduce the risk of fire, electric shock, or injury to persons, observe the following:

- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities

- Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer **info@parc-celings.com**.

Before You Start

Inspect all product parts for flaws and shipping damage.

If anything is discovered to be damaged, contact the shipping company and manufacturer immediately.

Warning! Damaged or missing parts must be reported to PARC at **info@parc-ceilings.com** immediately, PARC will not be responsible for any damage or loss that occurs during unpacking or installation.

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Tools Required

| LEVEL | LASER LEVEL | MEASURING TAPE | NODE REMOVAL TOOL | HEX SCREWDRIVER FOR SLOT NUTS |

Site Conditions, Storage and Handling Instructions

Read this guide before handling the product.

- Read the Installation Guide before handling.

- Always wear appropriate hand protection when handling.

- Only store in clean, dry conditions.

- Do not over stack.

- Do not stack in a way likely to cause falls.

Poor or rough handling, rolling, or dropping of the product on corners or edges may cause damage to the product or cause the product to deteriorate.

Lengths of Node should not span between points as any load applied mid-span may cause product damage.

Site storage of items should be flat, preferably on a suitable pallet (supporting the entire length of the Node Recessed Channel) without additional top loading.

Consideration should be given to the advice of the Site Occupational Health and Safety Representative regarding manual handling. An assessment should be made of any risk and if necessary mechanical lifting equipment should be used.

The storage space must be cleared of debris and, in general, should be enclosed. The Node Recessed Channel should be kept clean, dry, and protected from the elements.

Site conditions should be prepared for installation of the Node Recessed Channel. The site should be clean, dry, and clear of other trades working in the ceiling void.

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Product Overview

Node Recessed Channel is an architectural extruded aluminum channel that integrates various building services such as lights, speakers, sensors, etc. Node Recessed Channel can be ordered in any increment between 250mm to 3000mm. Channel sections can be spliced together to make up a run longer than 3000mm. A product overview of the channel is shown below.
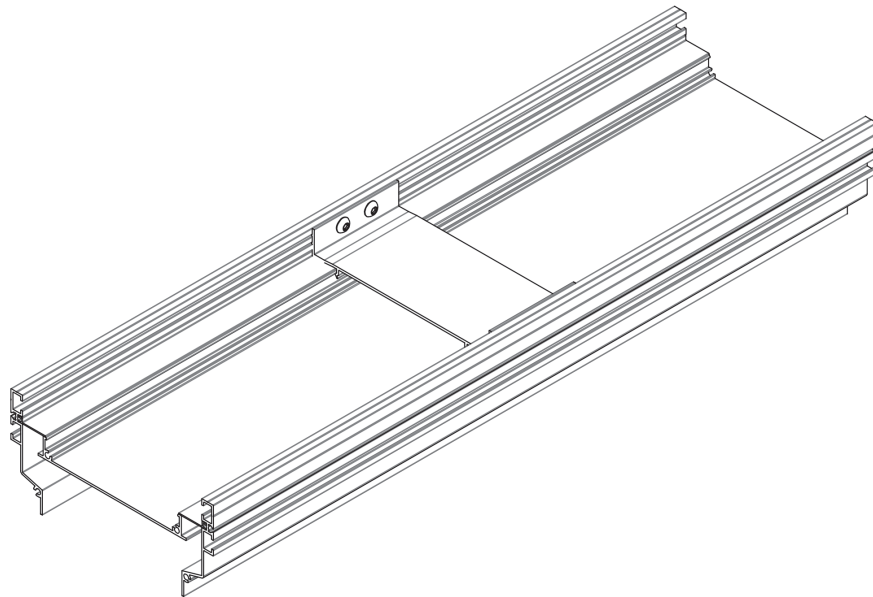

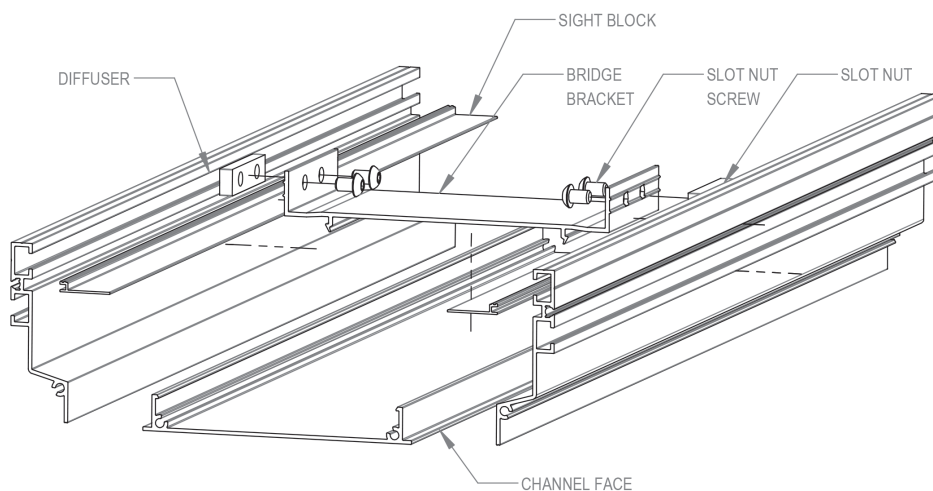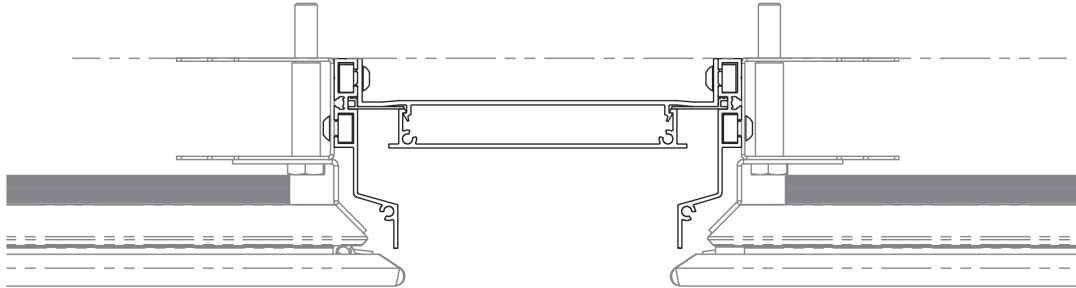Figure 1: Node Recessed Channel Assembly.

Figure 2: Node Recessed Channel - Component View.

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Node Recessed Channel is designed to be installed in ceilings with recessed voids between ceiling panels or plasterboard on either side of the channel.

Figure 3: Node Recessed Channel Installed Assembly.

For Node installation to Core, please refer to the Core installation manual for information on how to install Core. This manual assumes the relevant Core pieces are already installed in the appropriate positions.

It is recommended that the Node Recessed Channel length is ordered to length to match the building design, however the Node Recessed Channel can be site cut if required.

The Node devices are supplied separately from the channel assemblies.

Note: *All mounting hardware and sub structure is to be supplied and installed alongside the Node Recessed Channel.*

Lighting and other services must be installed by qualified personnel.

For further information regarding product or installation, please contact **info@parc-ceilings.com**.

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Installation

Node Recessed Channel is designed to mount with the Core, Push Latch/Magnet or Plasterboard mounting system. Custom mounting is available and should be specified at the project planning stage. Please refer to the project submittal if a custom mounting system is specified.

The Node Recessed Channel ships fully assembled and is mounted into the ceiling by using the primary mounting feature of the diffuser called the Outer Mounting Channel Slot. This is used for all mounting solutions.

Please refer to sections Installing to Core, Install to Push Latch/Magnet Mounting, Install to Plasterboard and Installing to Other for information on how to install the Node Recessed Channel Assembly. Please refer to the Installing to Channel Face section for information on installing the channel face if the channel face is shipped separately.
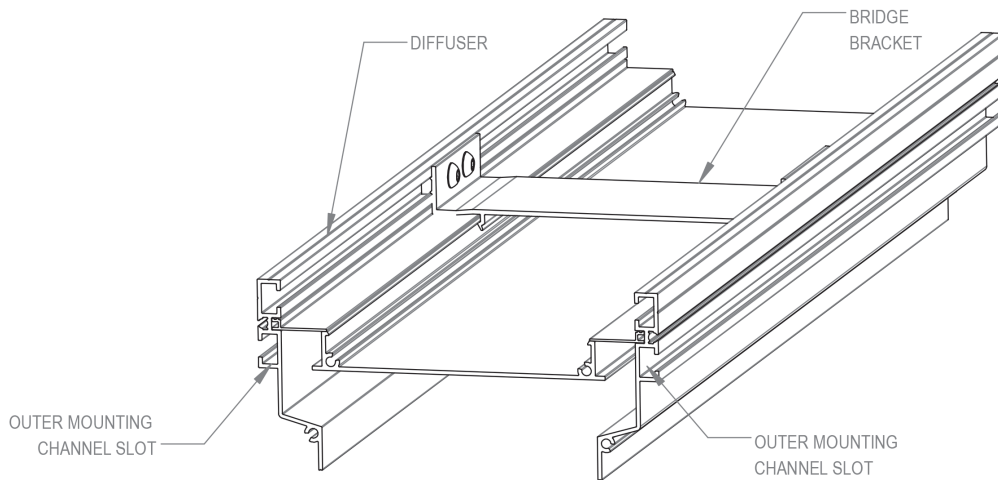

Figure 4: Node Recessed Channel Assembly.

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Installing to Core

Node Recessed Channel installs to Core through C-brackets. C-brackets are installed with Core and the brackets should exist in the ceiling space at the time of Node Recessed Channel installation. For additional information please consult the Core installation manual.
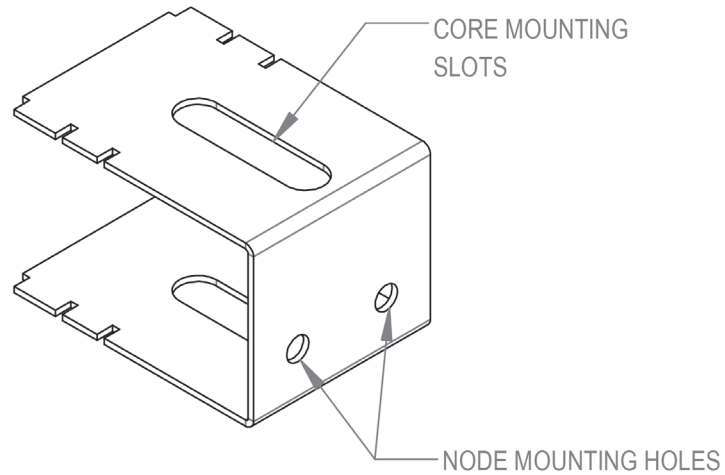

CORE MOUNTING SLOTS
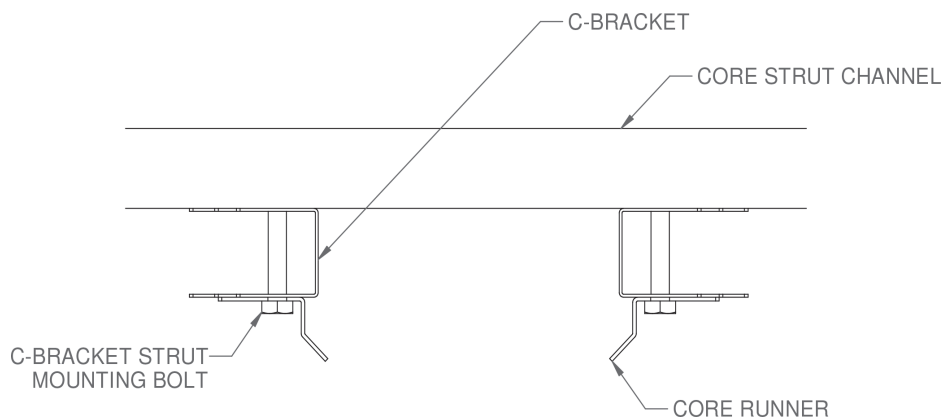
NODE MOUNTING HOLES

Figure 5: C-Bracket.

C-BRACKET

CORE STRUT CHANNEL

C-BRACKET STRUT MOUNTING BOLT

CORE RUNNER

Figure 6: Elevation of Core Mounting System.

First, ensure the spacing between C-brackets on the Core runners is 900mm or less. If 900mm or more exists between 2 C-brackets that were installed with Core, an additional C-bracket shall be installed onto the Core runner. Refer to the guide below on spacing of C-brackets.
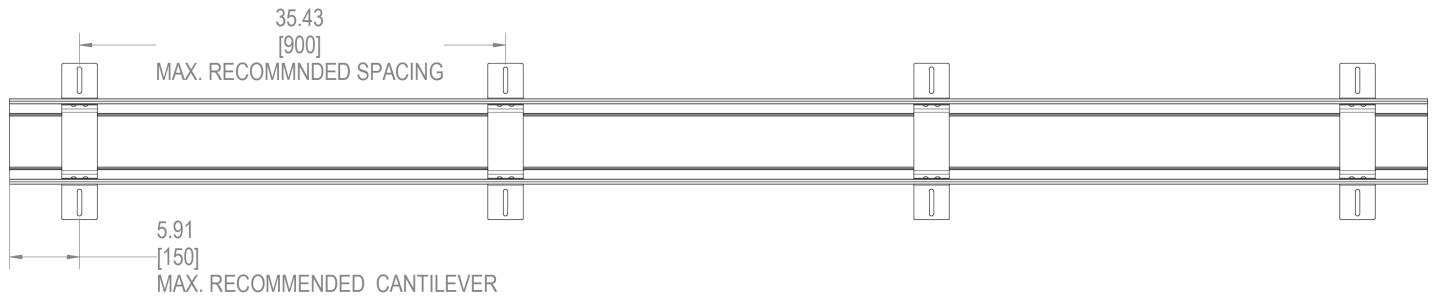
35.43
[900]
MAX. RECOMMNDED SPACING

5.91
[150]
MAX. RECOMMENDED CANTILEVER

Figure 7: Recommended Spacing for Mounting Brackets.

Next, slide provided slot nuts into the outer mounting channel slot of the diffuser, one for every C-bracket. Fasten provided screws into each Node mounting hole on the C-bracket with a 4mm or 3/32" hex driver.

4MM OR 3/32" HEX DRIVER
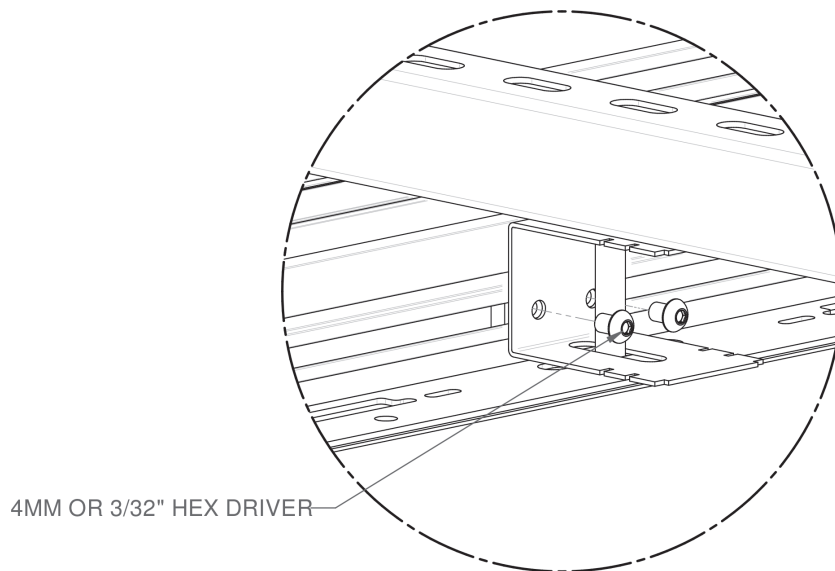
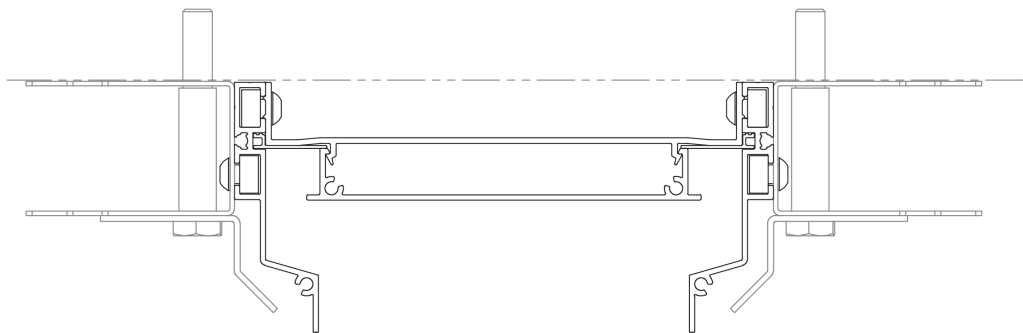**Figure 8: C-Bracket Mounting Detail.**

Figure 9: Core Mounting Final Assembly.

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Installing to Push/Latch Mounting

Installation to the Push Latch/Magnet Mounting system uses the Push/Latch bracket that is factory installed to the outer mounting channel slot. This manual assumes the Push Latch/Magnet Mounting system is installed in the ceiling already.
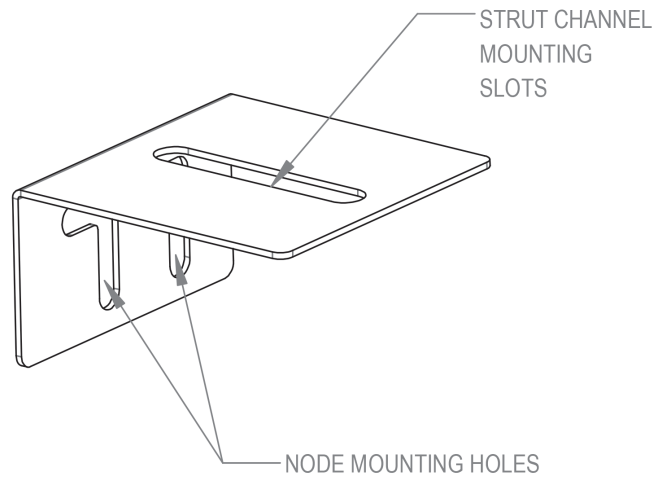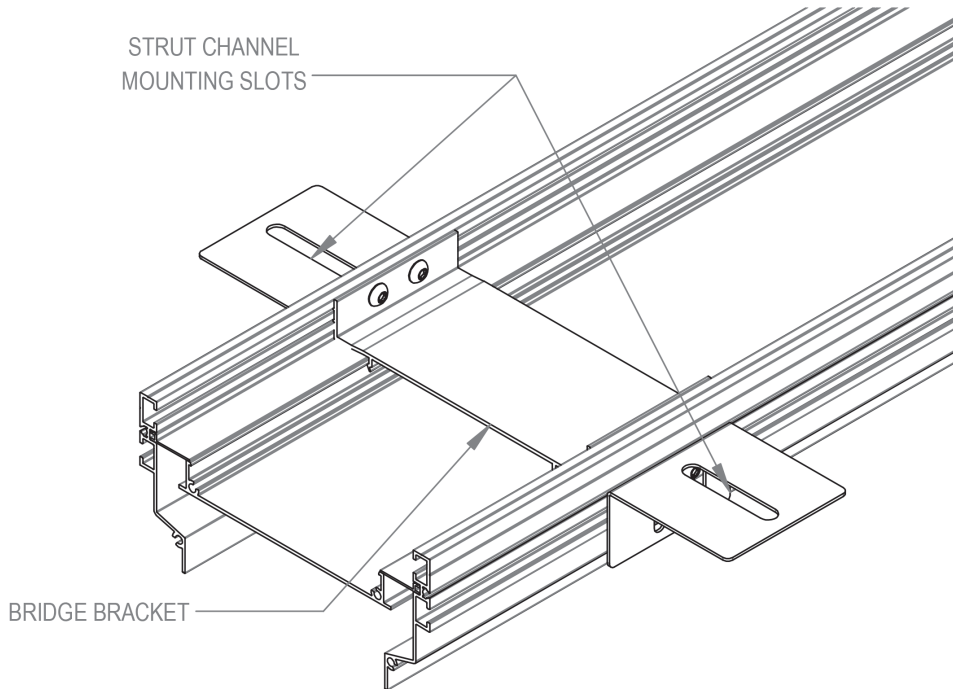
STRUT CHANNEL MOUNTING SLOTS

NODE MOUNTING HOLES

Figure 10: Push/Latch Bracket.

STRUT CHANNEL MOUNTING SLOTS

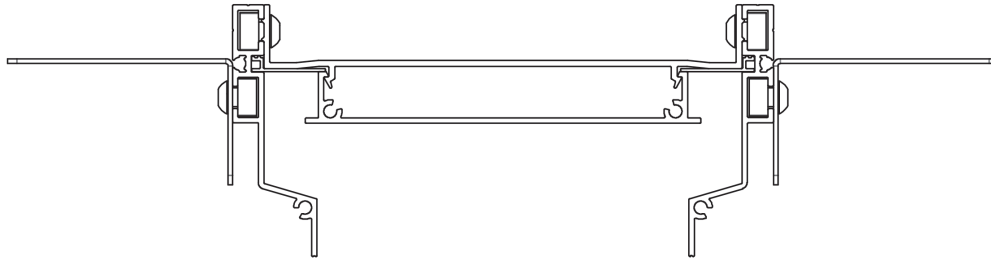BRIDGE BRACKET

Figure 11: Push/Latch Mounting ISO View.

Figure 12: Push/Latch Mounting Front View.

To install, simply place the Push/Latch Mounting bracket on top of the strut channel and fasten through the slots. Fasteners not provided.
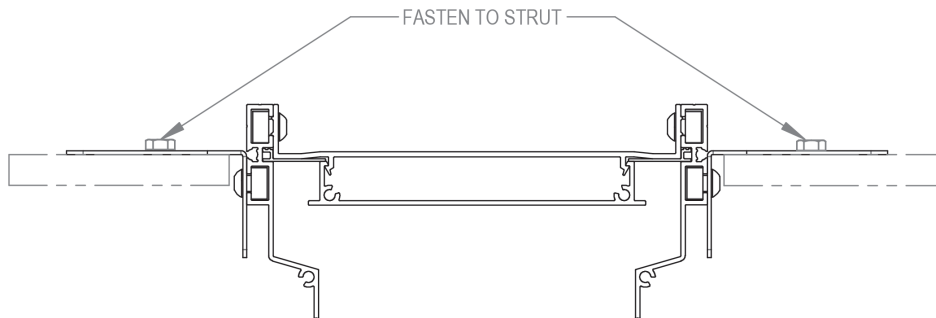
Figure 13: Push/Latch Mounting Install Above Strut Channel.

Horizontal adjustment can be made to the Push/Latch Mounting bracket to ensure proper fitment to the Node Recessed Channel. Vertical adjustment can be made to ensure proper channel height from ceiling plane. Refer to Installing to Other section for channel height reference from ceiling plane.

Final installation of the Node Recessed Channel assembly shall match the following.
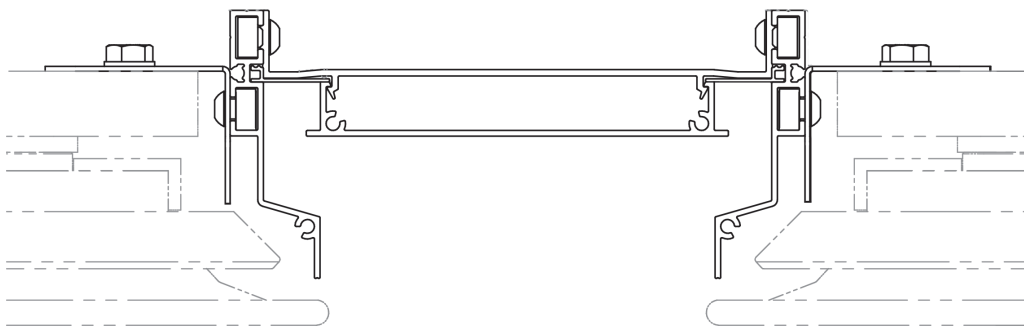
Figure 14: Push/Latch Mounting Final Assembly.

Installing to Plasterboard

Installation to Plasterboard uses the Plasterboard bracket that is factory installed to the outer mounting channel slot.
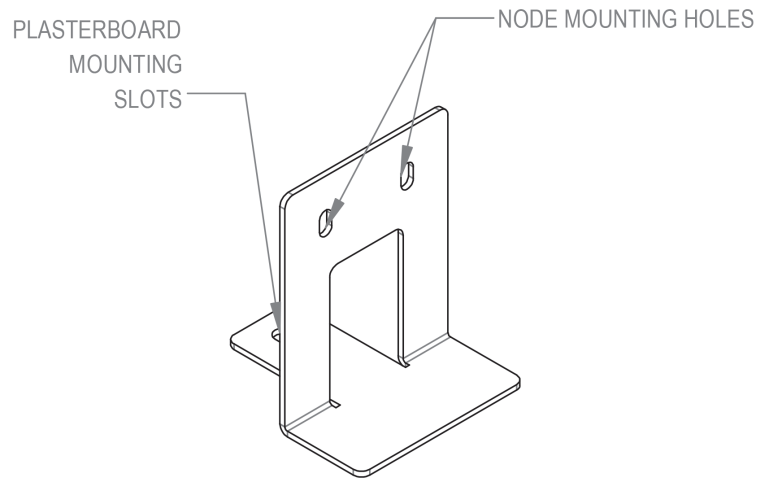
PLASTERBOARD MOUNTING SLOTS

NODE MOUNTING HOLES

Figure 15: Plasterboard Bracket.

BRIDGE BRACKET

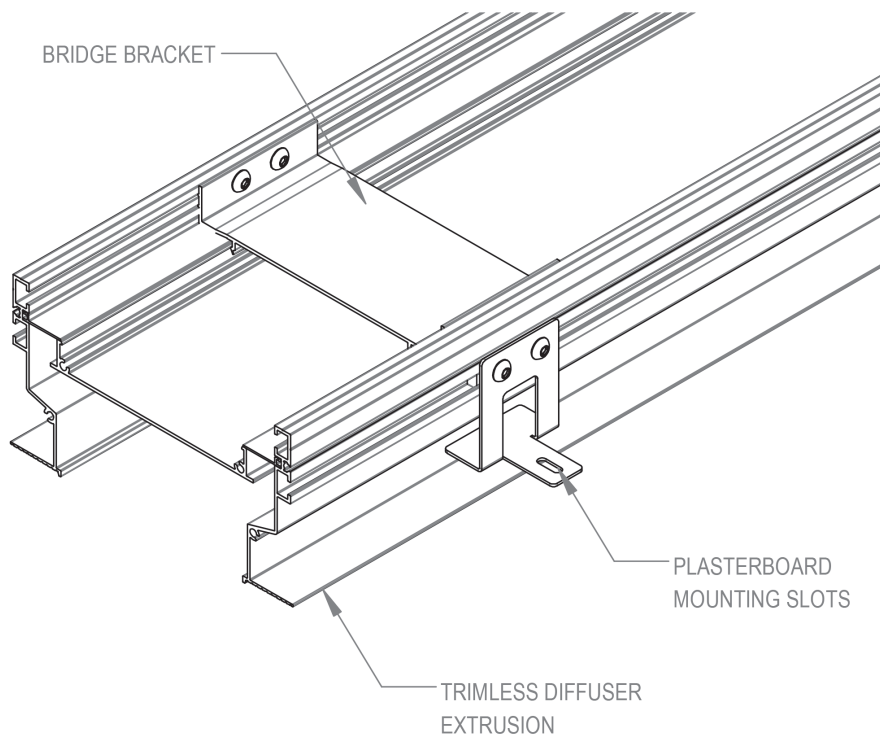PLASTERBOARD MOUNTING SLOTS

TRIMLESS DIFFUSER EXTRUSION

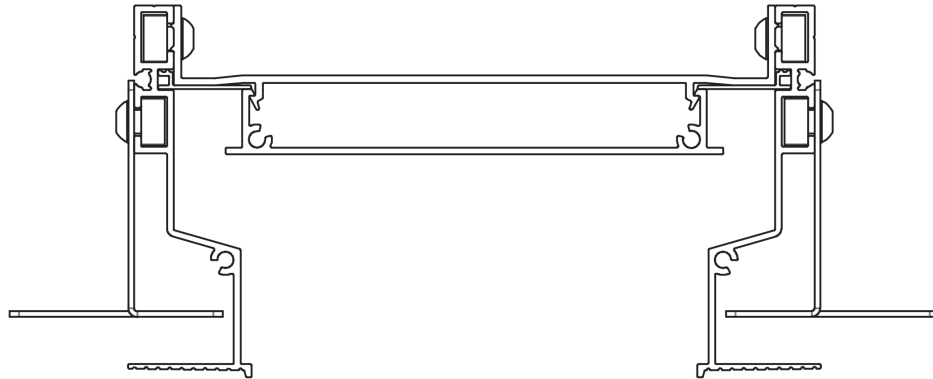Figure 16: Plasterboard Mounting ISO View.

Figure 17: Plasterboard Mounting Front View.

To install, sandwich the plasterboard between the supplied mounting bracket and the Trimless Diffuser extrusion on both sides of the channel.

TRIMLESS DIFFUSER
EXTRUSION

1/2" OR 5/8"
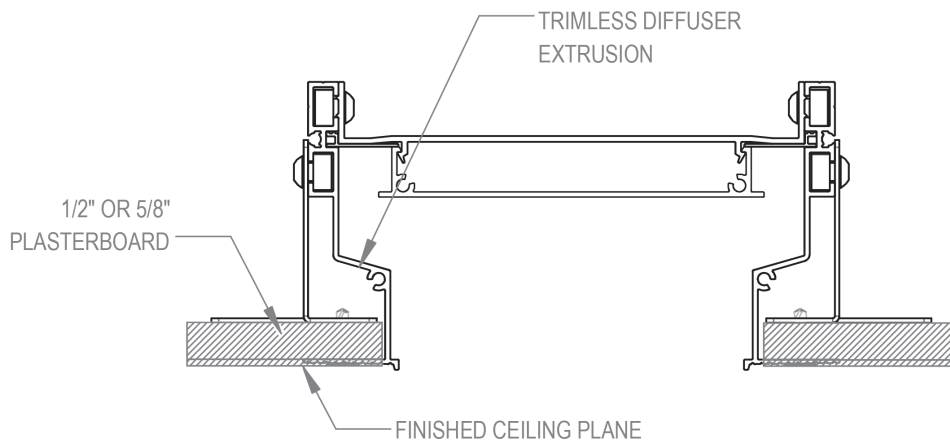PLASTERBOARD

FINISHED CEILING PLANE

Figure 18: Plasterboard Mounting Final Assembly.

Vertical adjustments can be made to the plasterboard bracket to fit either 1/2" or 5/8" plasterboard. Install plasterboard screws through the Trimless Diffuser extrusion to secure plasterboard in place. Fasteners not provided.

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Installing to Other

When installing the Node Recessed Channel by other means, the custom mounting brackets can either be provided by PARC or provided by others. Additionally, the slot nuts can be provided by PARC or by others. Information to aid in the design of brackets and/or slot nuts is shown in the image below.
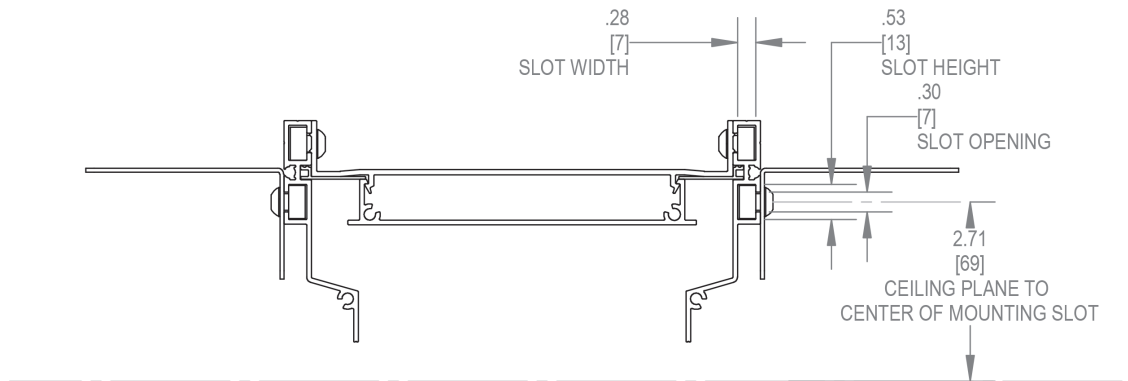

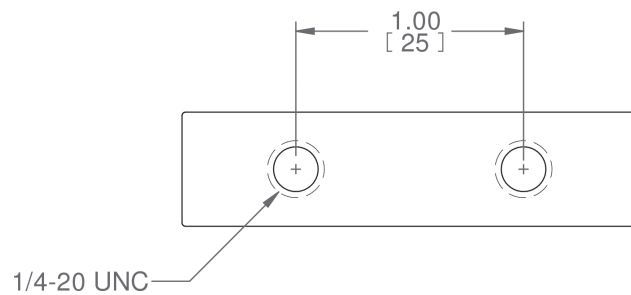Figure 19:Mounting Dimensions for Other Installations.

Figure 20:Slot Nut Dimensions.

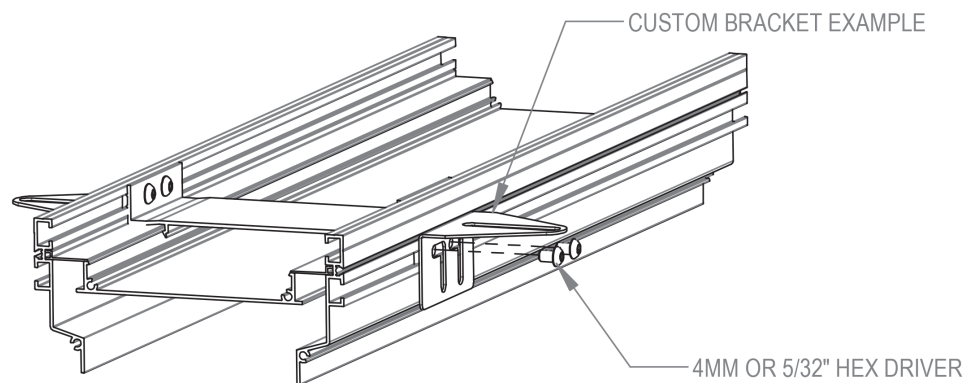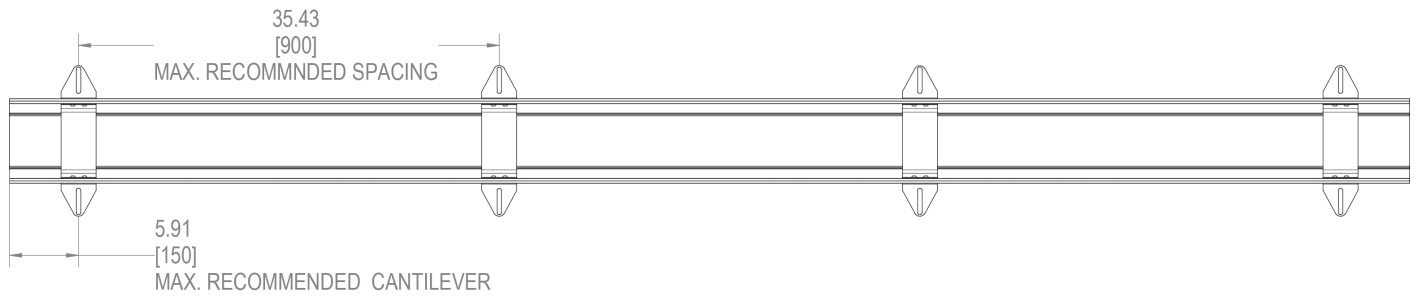When using PARC slot nuts, slide the custom mounting bracket into place and secure with specified fastener.

Figure 21: Installation of Custom Brackets.

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Bracket spacing recommendations follow the image below.

35.43
[900]
MAX. RECOMMNDED SPACING

5.91
[150]
MAX. RECOMMENDED CANTILEVER

Figure 22: Recommended Spacing for Mounting Brackets.

Finish installation by mounting brackets to the ceiling by project specific details.

Installing Channel Face

Channel face comes installed from the factory. In cases where the channel face needs to be installed on site, carefully push the channel face onto the bridge bracket until it snaps into place.
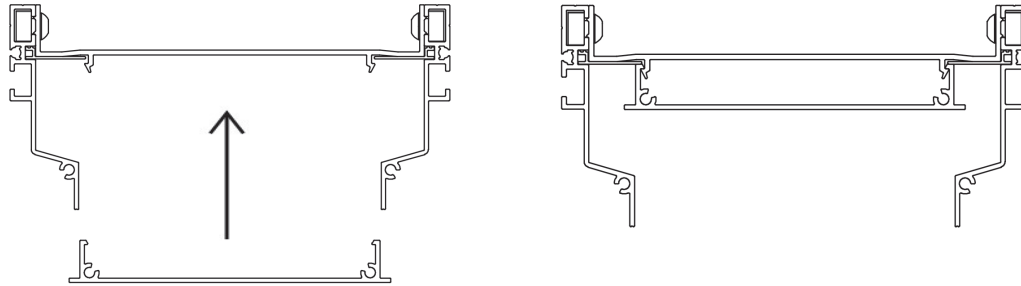
Figure 23: Recessed Channel Face Installation.

Adjusting Bridge Bracket Locations

The bridge bracket locations can be adjusted if required based on site conditions. In locations where a plenum is located, the bridge bracket must be relocated to allow mounting of the plenum. To adjust the bridge bracket location, loosen the slot nut screw on both sides of the channel assembly. Once loosen, the bridge bracket can move freely along the channel length.

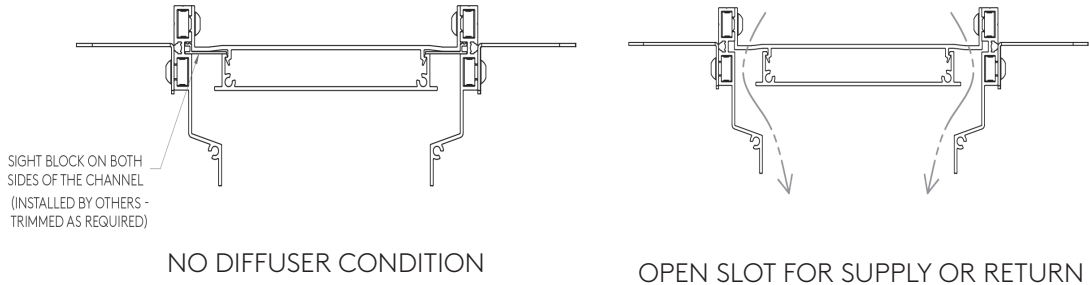The max recommended distance from one bridge bracket to the next is shown below.

35.43
[900]
MAX. RECOMMNDED SPACING

5.91
[150]
MAX. RECOMMENDED CANTILEVER
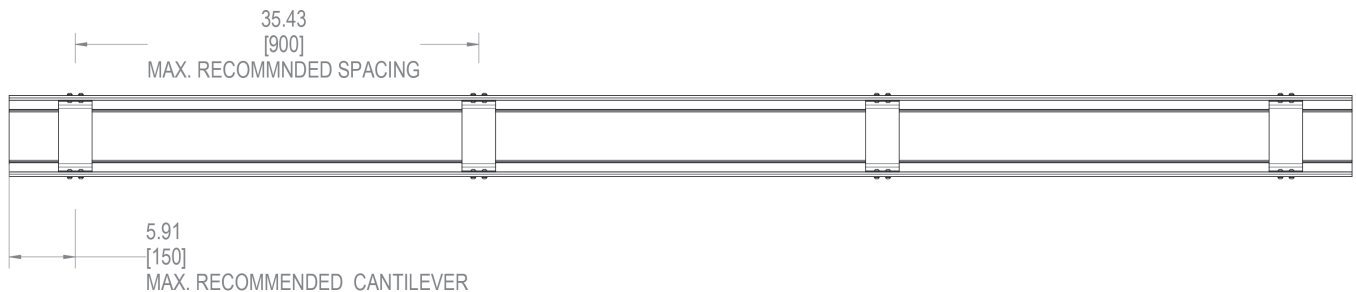
Figure 24: Recommended Spacing for Bridge Bracket.
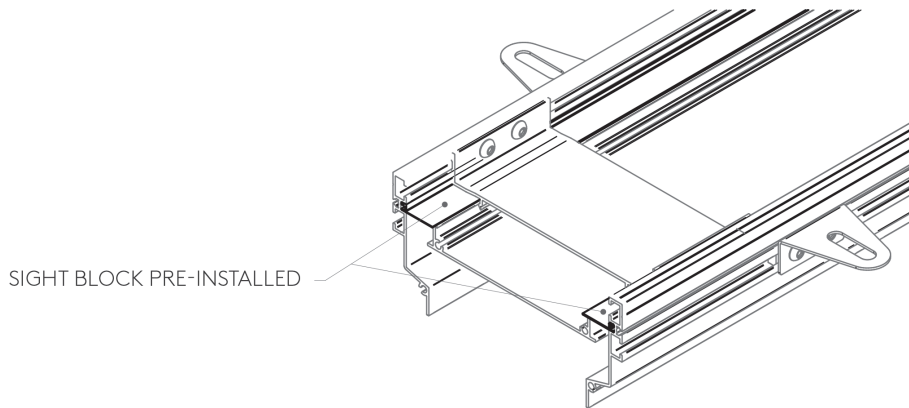
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Node integrated Sight Block

A plastic extruded sight blocks comes installed per standard construction to eliminate sight lines between the channel face and diffuser. In locations where a Plenum is located, the sight block must be trimmed on site in the location of the plenum to allow the passage of air flow. Use a sharp utility knife to make the appropriate cuts in the sight block. Once three sides have been cut, the plastic can be twisted and snapped off to reveal an opening within the sight block.

Note: *Always use appropriate Personal Protective Equipment and follow Risk and Method statements when cutting material.*

SIGHT BLOCK ON BOTH SIDES OF THE CHANNEL (INSTALLED BY OTHERS - TRIMMED AS REQUIRED)

NO DIFFUSER CONDITION   OPEN SLOT FOR SUPPLY OR RETURN

Figure 25: Node Recessed Channel Sight Block Conditions.

SIGHT BLOCK PRE-INSTALLED

Figure 26: Node Recessed Channel Sight Block ISO View.

TWIST AND SNAP ALONG BLUE LINE

CUT ALONG BLUE LINE
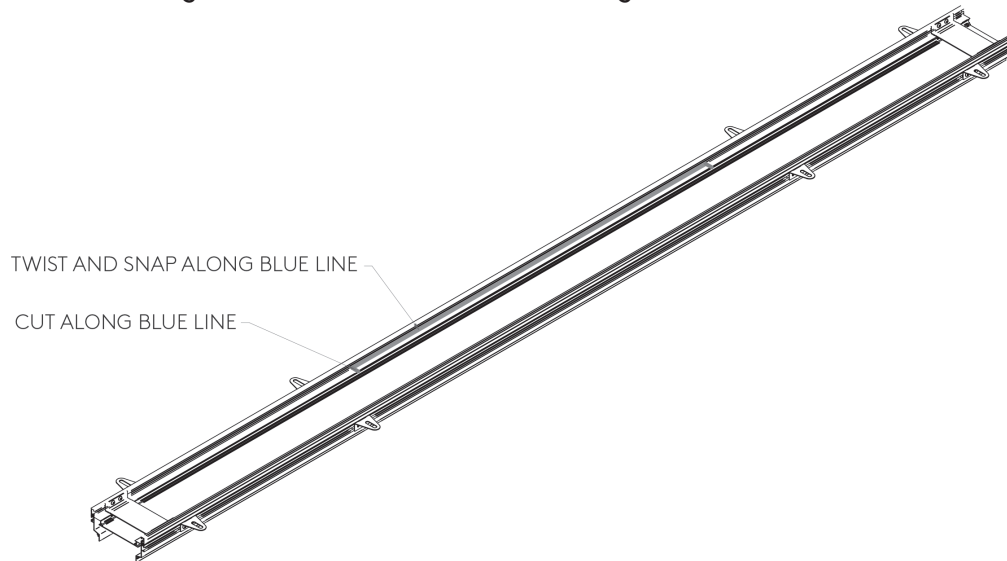
Figure 27: Sight Block to be Trimmed where Plenums are Installed.

Connecting Node Recessed Channels

Node Recessed Channels should be connected linearly by pressing together channels using provided roll pins. The roll pin should be used to ensure a high-quality joint between adjacent channel faces. On each diffuser, additionally install a slot nut on the outer mounting channel slots.
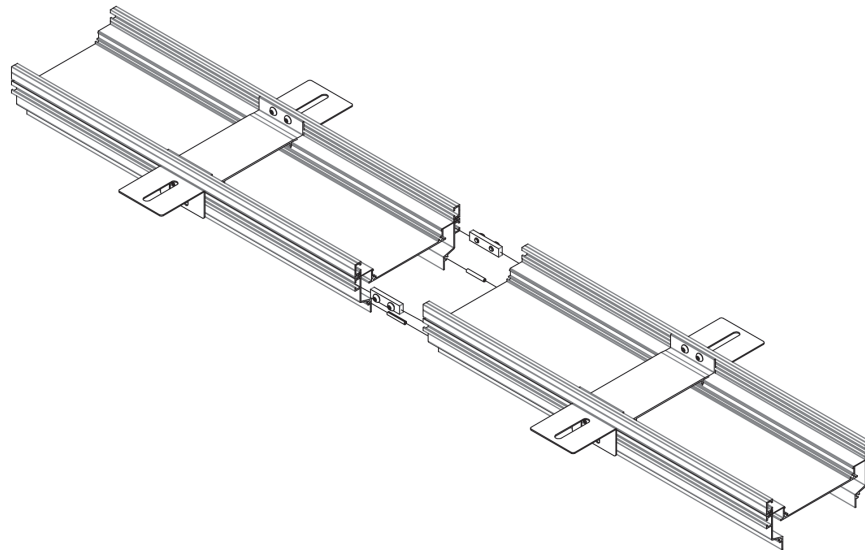

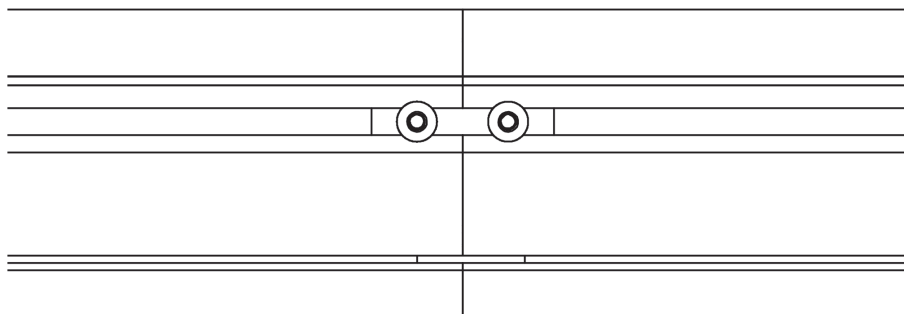Figure 28: Recessed Channel with Mounting Channel Splice Connection ISO View.

Figure 29: Recessed Channel with Mounting Channel Splice Connection Side View.

Connect all required sections, ensuring no visible gap between both sections.

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End Caps

The Node Recessed Channel can be provided with or without end caps as project design requirements. End caps are factory installed as required.
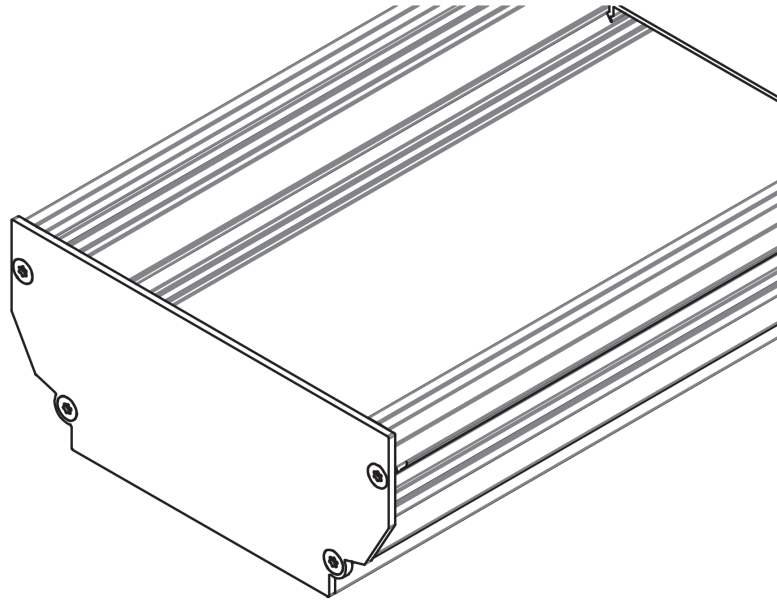

Figure 30: Recessed Channel End Cap.

Cutting Node Recessed Channels to Length on Site

Where possible, the channel should be ordered to length based upon contractor site measurements.

If the channel must be cut to length, this should be done at the end, rather than a joint, to minimize visual impact. Remove the 4 screws on the end cap, make your cut, and reinstall the screws. The maximum length that can be trimmed is defined by the position of the bridge bracket.

Node Device Installation

Node devices can be integrated into the system at design stage and can be purchased separately from the Node Channel.

Outer Node housings will be factory installed in the required locations.

The Node devices are installed in the housing by aligning the snap tabs and pushing the inner casing directly into the housing.
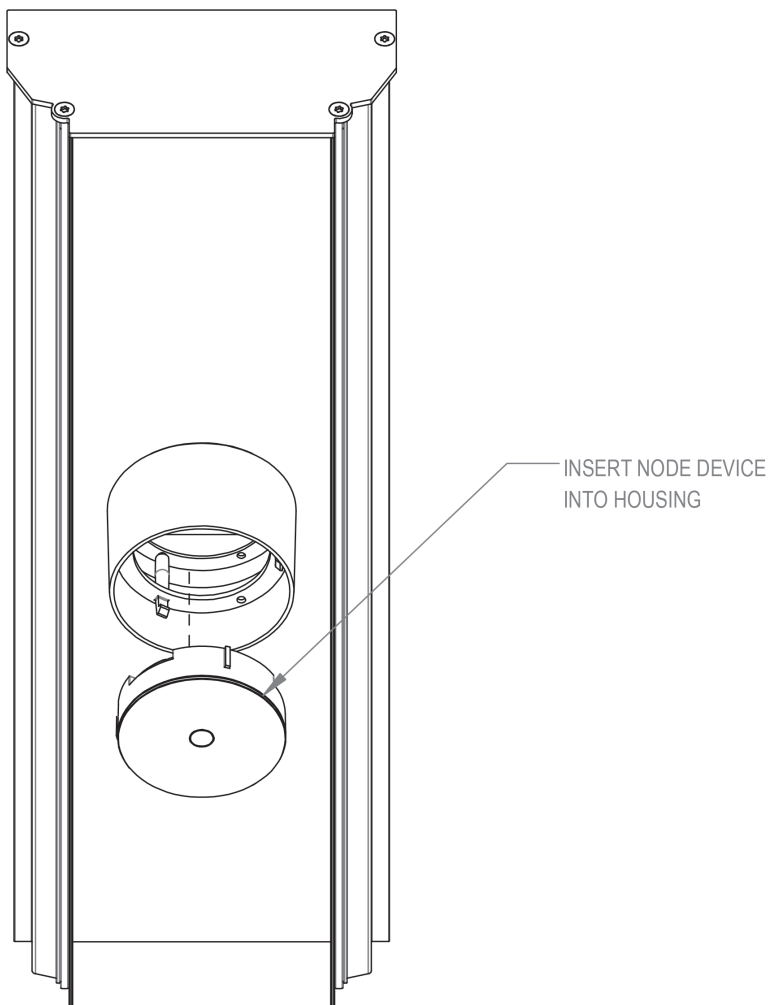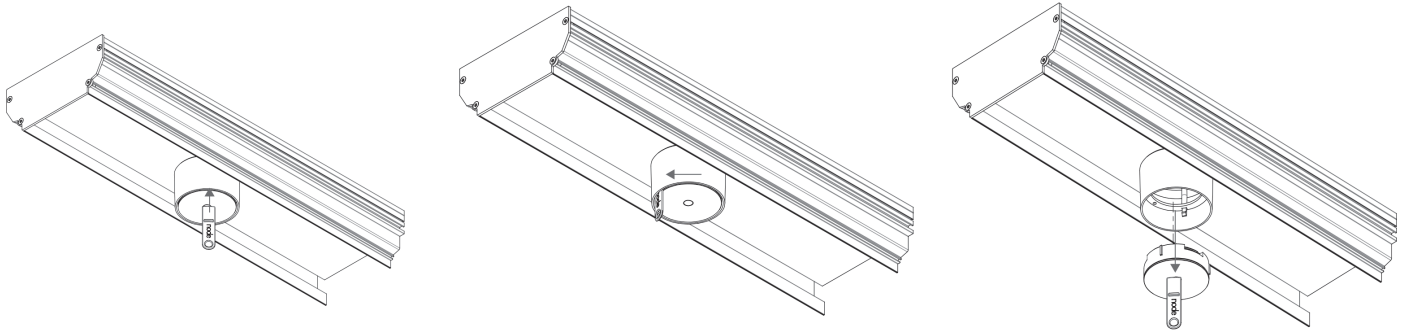
INSERT NODE DEVICE
INTO HOUSING

Figure 31: Node Recessed Channel Device Installation.

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Node Device Removal

To remove the Node device, insert the Node removal tool into the shadow gap between the outer housing and device. Persuasively slide the Node removal tool anti-clockwise until the Node device is released.

Waste Disposal Management

Node Recessed Channels are shipped and packaged with protective material that should be disposed of in an appropriate manner.

Please remove or recycle waste and packaging materials as per your local waste disposal requirements.

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