DataStruct®
Installation Instructions

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THIS GUIDE SHOULD BE USED IN CONJUNCTION WITH TECHNICAL STANDARD AS/NZS 2785:2020, SEISMIC DESIGN IN ACCORDANCE WITH AS 1170.4 AND OTHER PROJECT SPECIFIC DESIGN DOCUMENTATION.

Standard Components

Item	Product	Code Description
1	DWDS75MR3600GW	Dataworks Datastruct Heavy Duty 75mm Main Runner 3600 Global White
2	DWDS75CR1200GW	Dataworks Datastruct Heavy Duty 75mm Cross Runner 1200 Global White
3	DWDS75CR600GW	Dataworks Datastruct Heavy Duty 75mm Cross Runner 600 Global White
4	ALSWA2GW	Seismic Heavy Duty Aluminium Wall Angle Global White
5	DWDSHDGC	Dataworks Datastruct Heavy Duty Grid Connector Mill Finish
6	FSTBM8100SS	Turnbuckle M8 x100 304 Stainless Steel
7	FSDEBM82050SS	Double Ended Bolt M8 x RH20 x LH50 304 Stainless Steel
8	FSTSRNM8SS	T-Slot Rhombic Nut M8 304 Stainless Steel
9	FSSFHHBM830SS	Serrated-Flange Hex Head Bolt M8x30 304 Stainless Steel
10	DWDSHDC	Panel Hold Down Clip
11	UNI200	Slotted Angle Bracket
12	ALMRJL	Aluminium Main-Runner Joiner Large
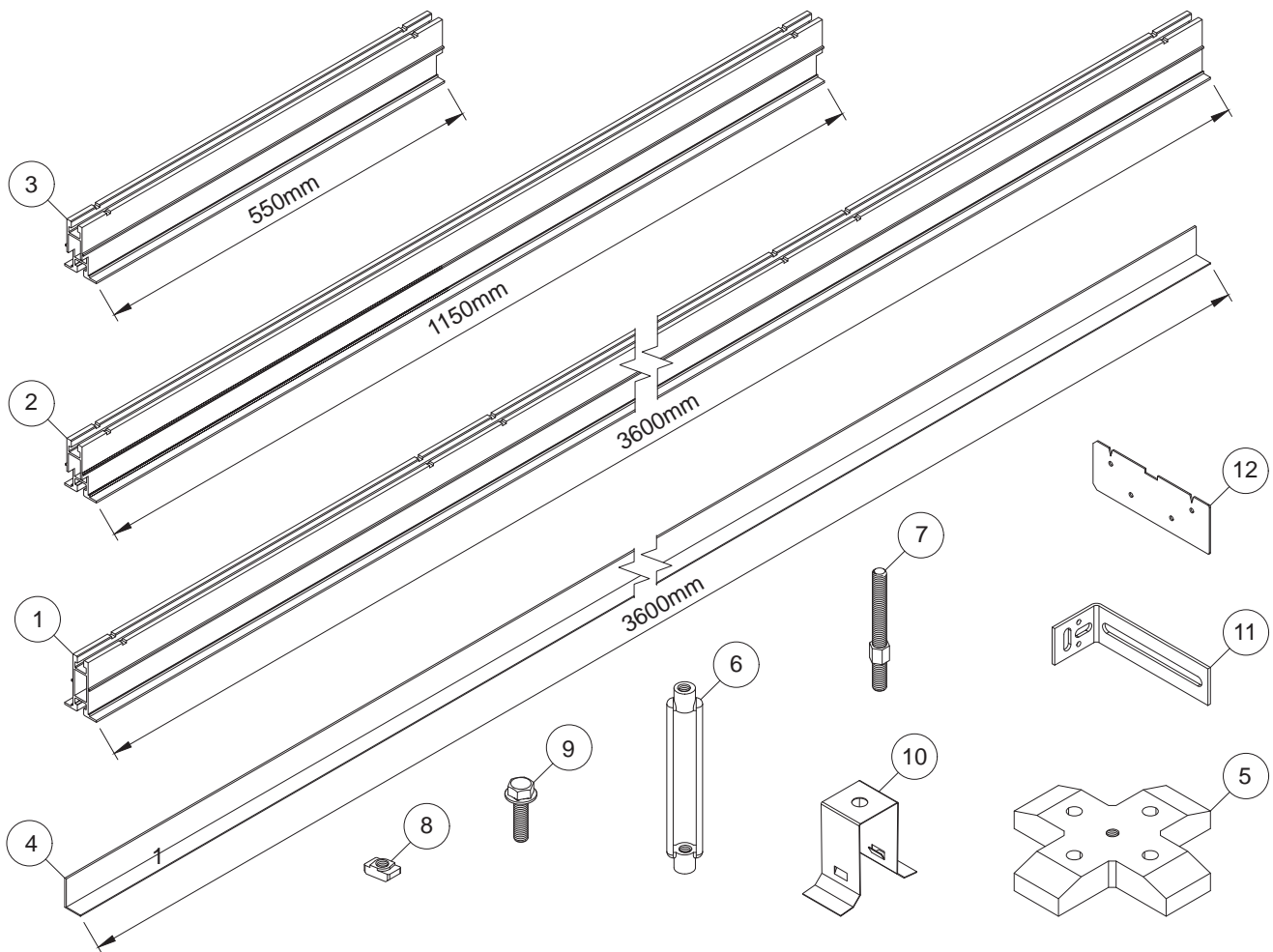
Setting Out

1. Establish ceiling grid level.

LEVEL 1
SFL 07.000

CEILING

(1)

GROUND
SFL 00.000
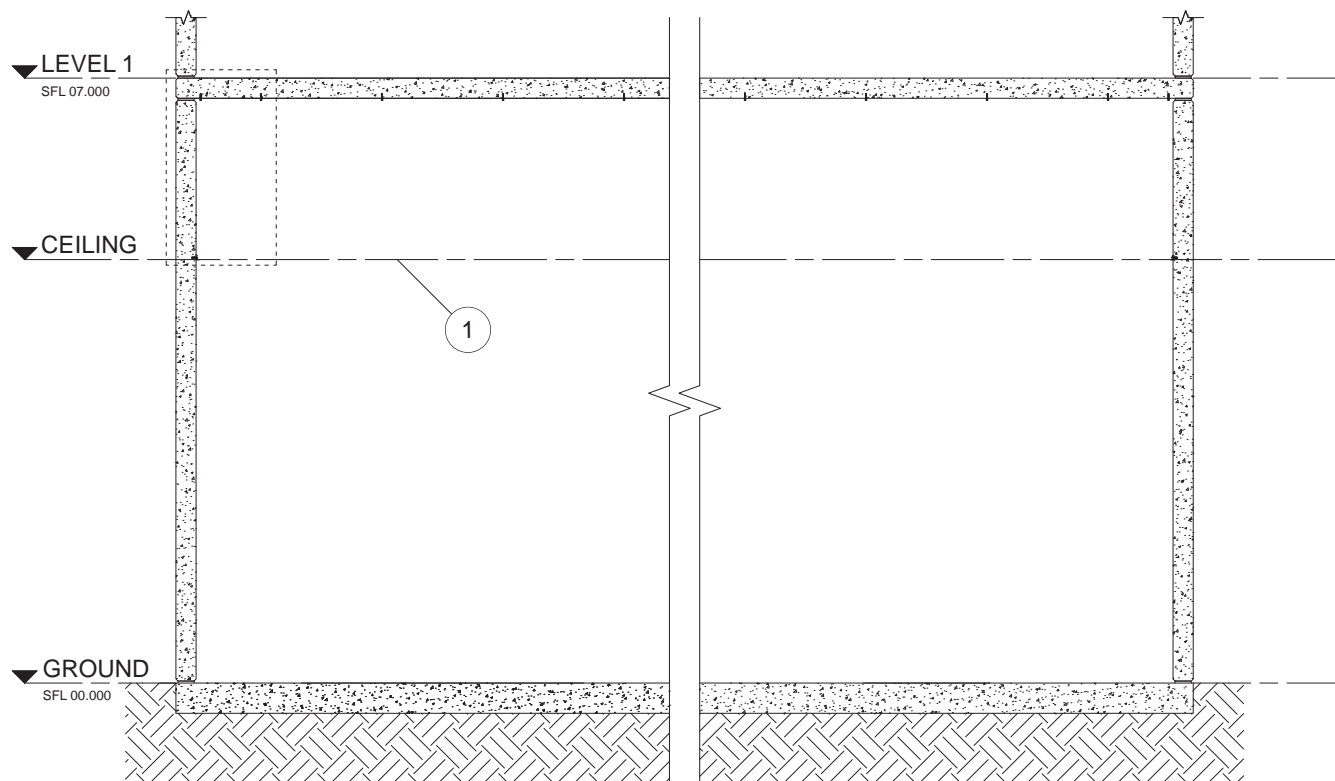
2. Set out grid location and install anchor points.

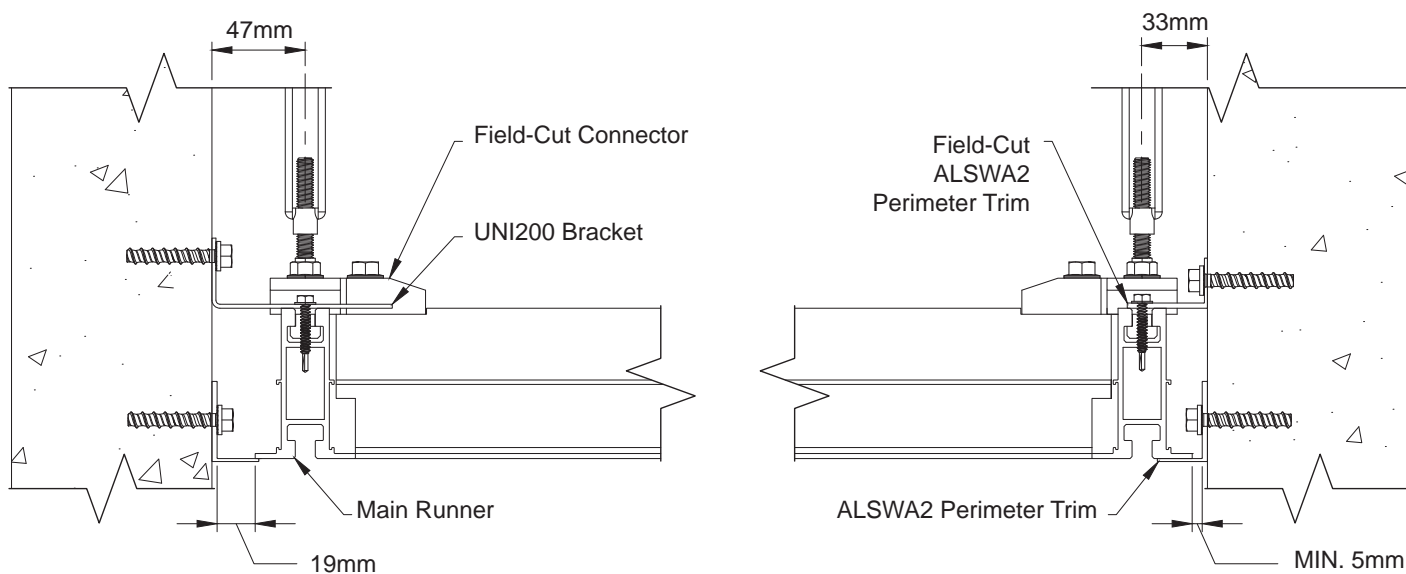**3. Install perimeter hanger anchor positions.**

4. Install perimeter angles.
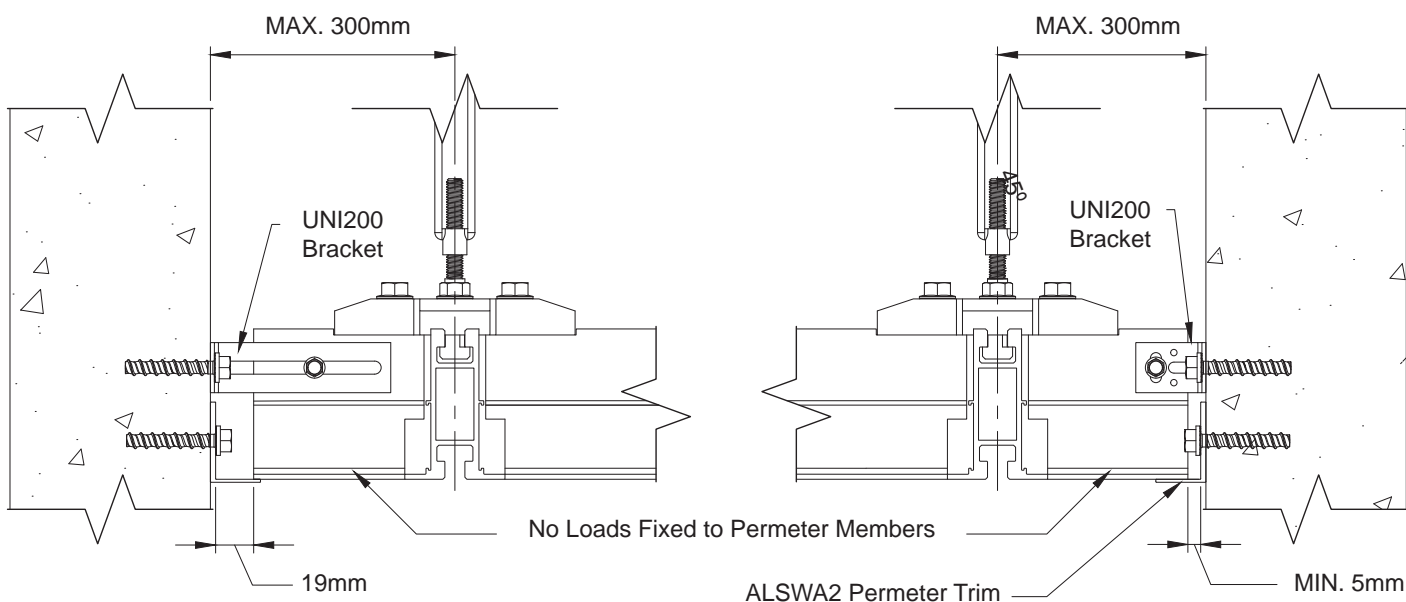
(3)

(2)

(4)
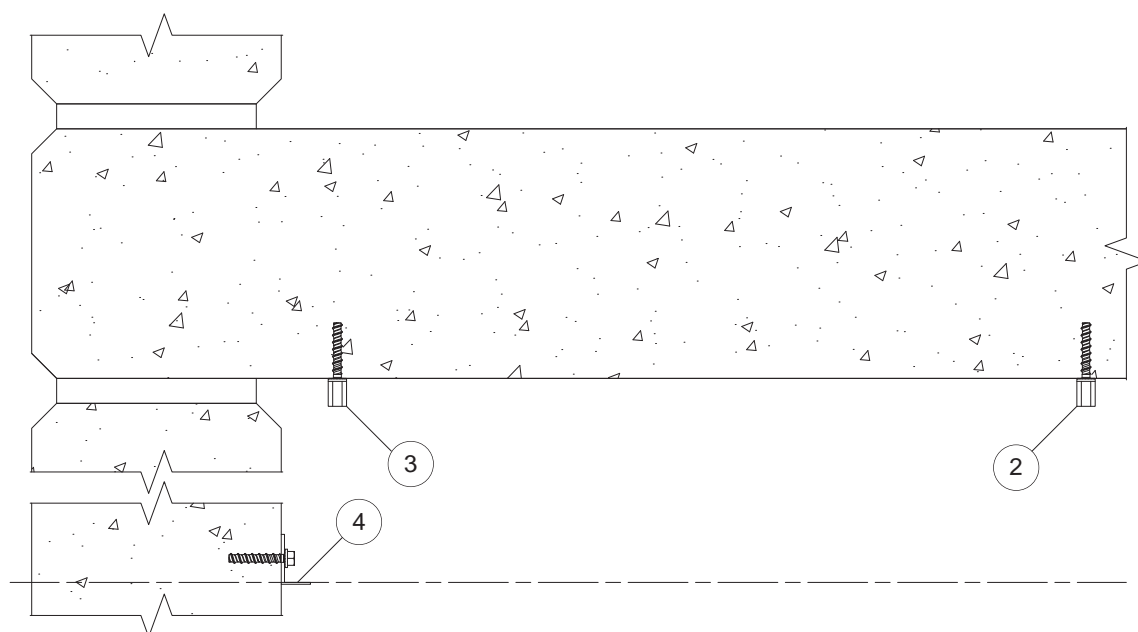
N.B. Ensure top fasteners are installed in accordance with manufacturer guidelines and rated per AS 1170.4 Seismic design.

Perimeter Details

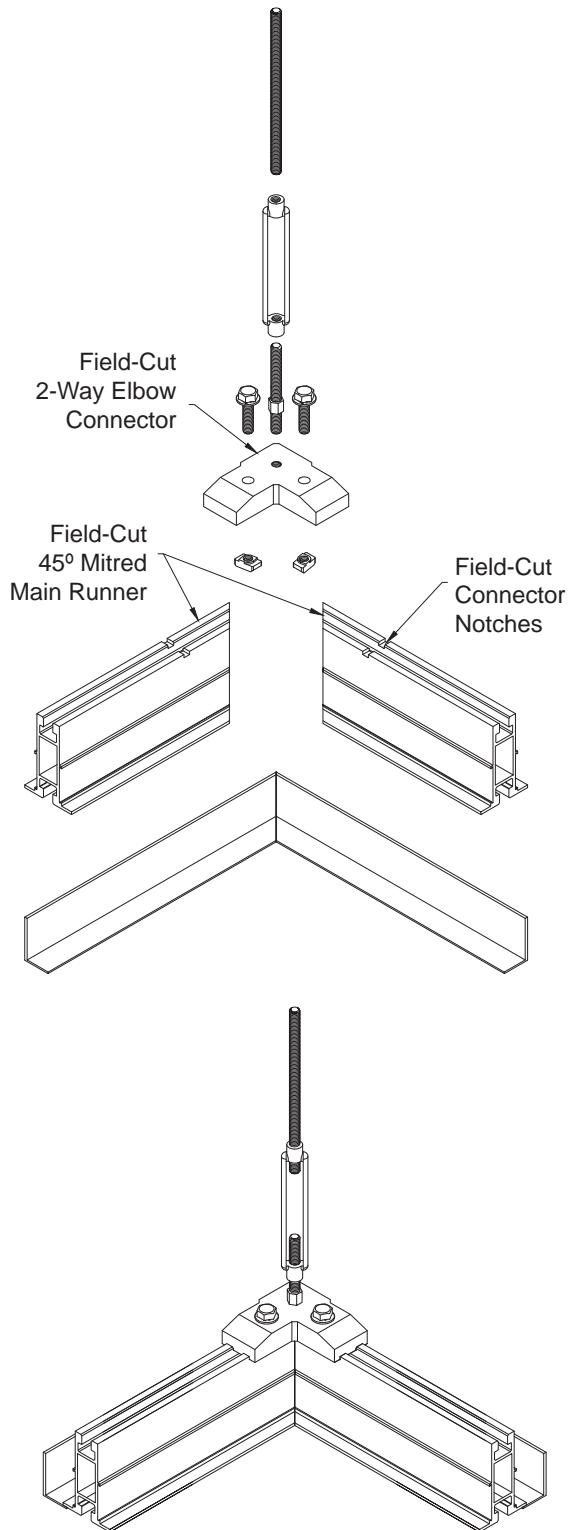**5. Install fixed/floating Main Runners around perimeters as shown.**

47mm

Field-Cut Connector

UNI200 Bracket

Main Runner

19mm

33mm

Field-Cut
ALSWA2
Perimeter Trim

ALSWA2 Perimeter Trim

MIN. 5mm

6. Install fixed/floating without Main Runners around perimeter as shown below.

MAX. 300mm

UNI200
Bracket

19mm

MAX. 300mm

UNI200
Bracket

No Loads Fixed to Permeter Members
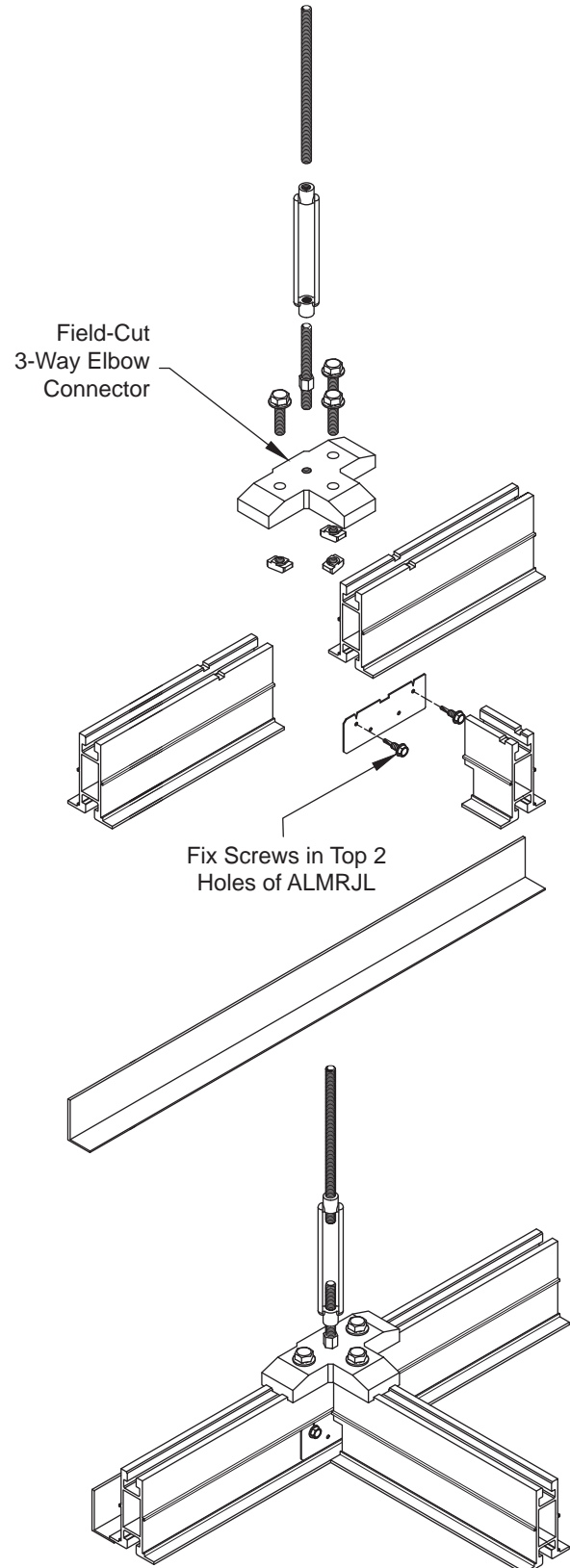
ALSWA2 Permeter Trim

MIN. 5mm

N.B. Install fixed/floating edges in accordance with AS 1170.4 Seismic design.

Installing Perimeter Grid

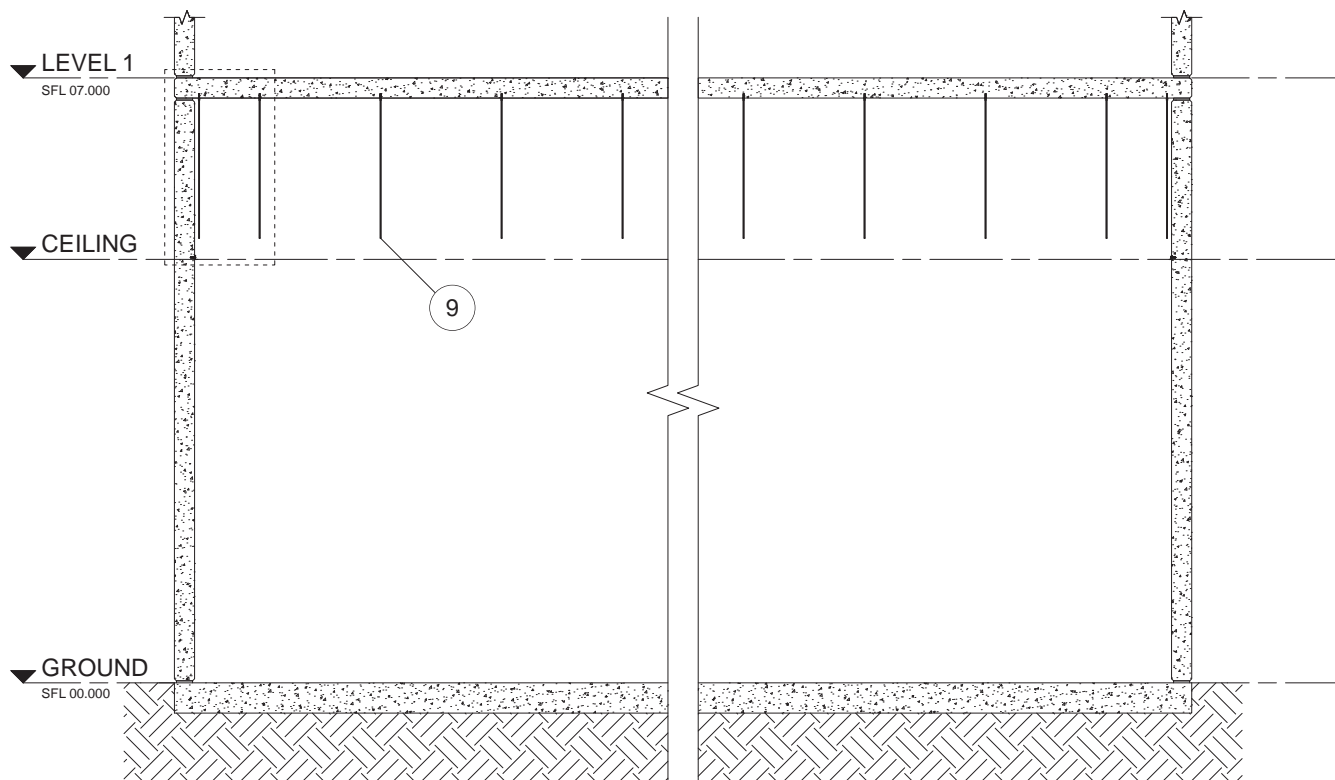**7.** **Install corner perimeter grid as shown below.**

Field-Cut
2-Way Elbow
Connector

Field-Cut
45º Mitred
Main Runner

Field-Cut
Connector
Notches

8. **Install perimeter Main Runners as shown below.**

Field-Cut
3-Way Elbow
Connector

Fix Screws in Top 2
Holes of ALMRJL

9. Fit M8 304 Stainless Steel Threaded Rod into anchors.

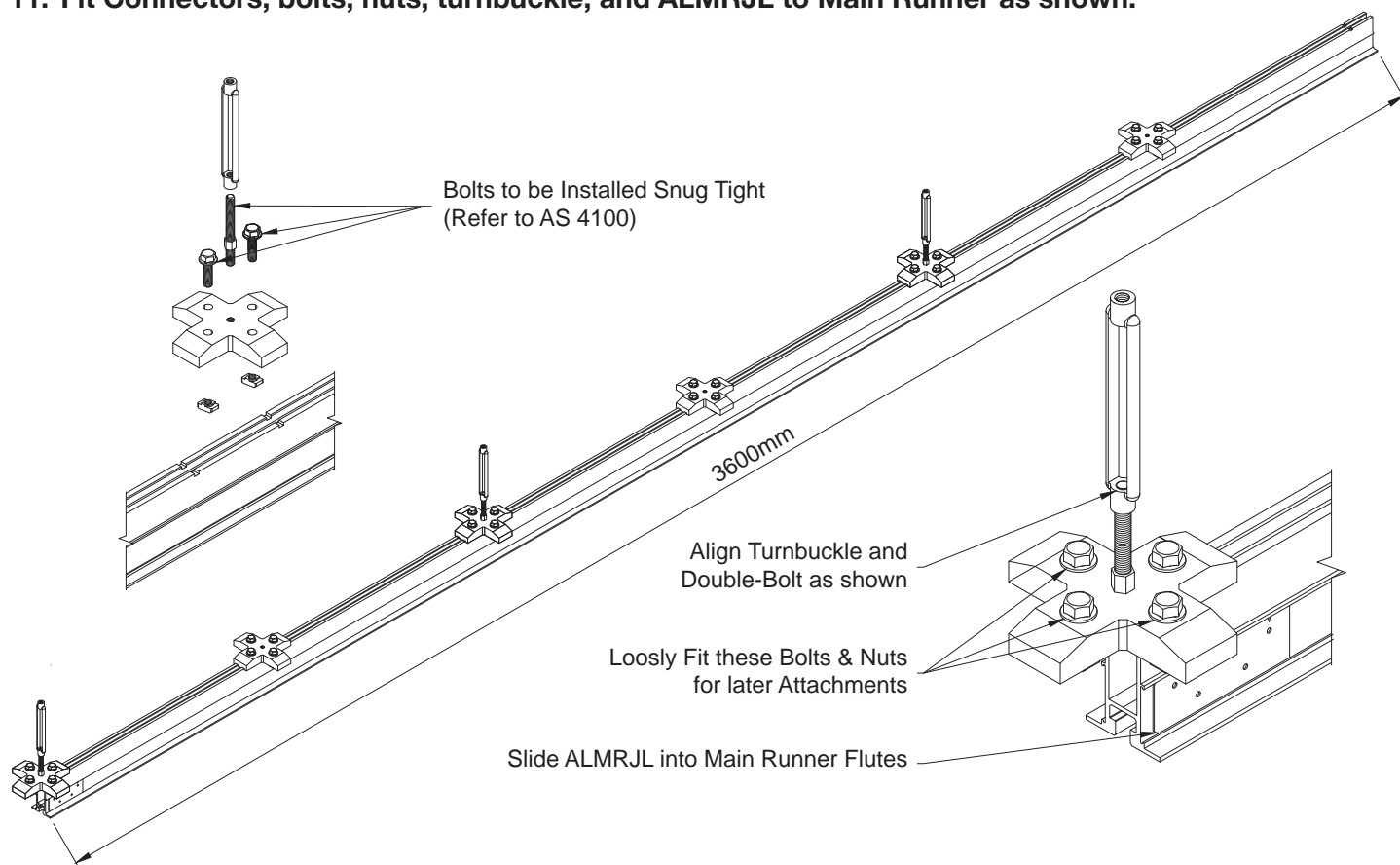**10. Align underside of threaded rod 210mm above ceiling level.**

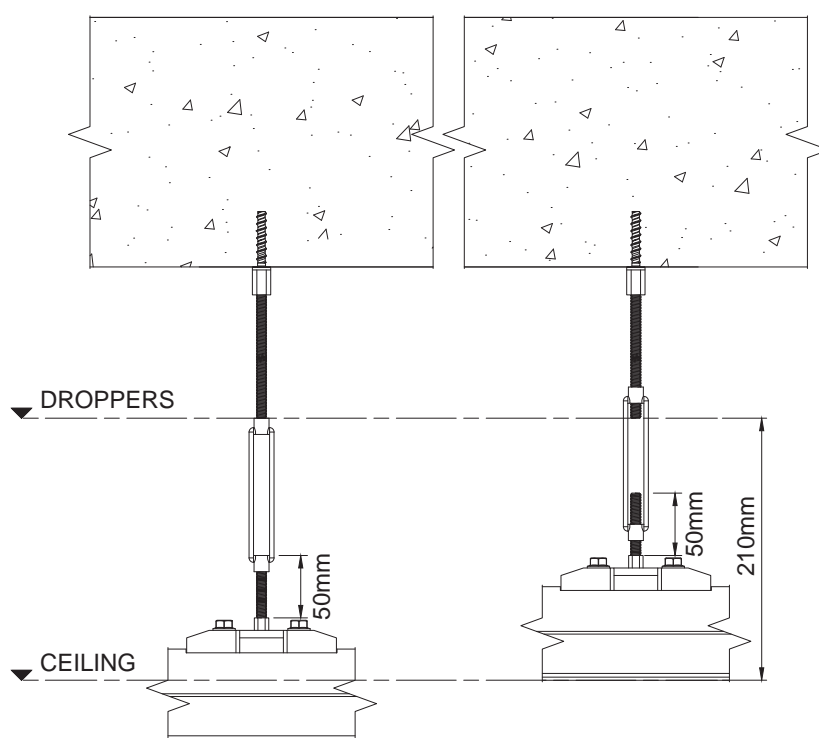**11.** **Fit Connectors, bolts, nuts, turnbuckle, and ALMRJL to Main Runner as shown.**

Bolts to be Installed Snug Tight
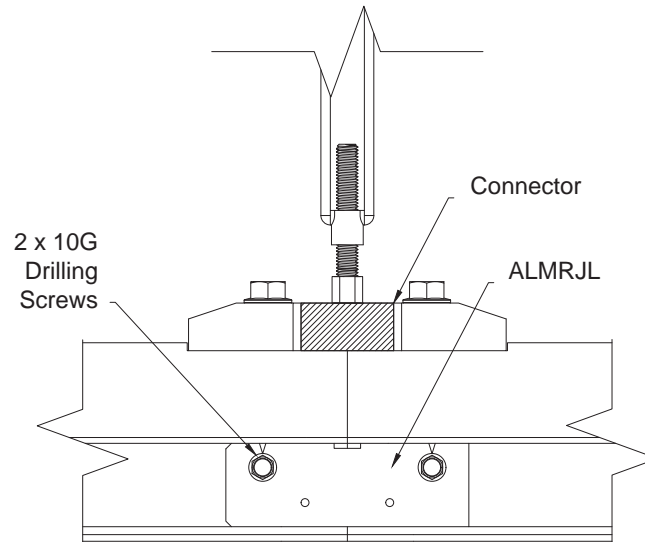(Refer to AS 4100)

3600mm

Align Turnbuckle and
Double-Bolt as shown

Loosly Fit these Bolts & Nuts
for later Attachments

Slide ALMRJL into Main Runner Flutes

12. **Connect turnbuckle with threaded rods and raise grid to ceiling level as shown.**

DROPPERS

CEILING

50mm

50mm

210mm

13. Use Connector and ALMRJL to splice main runners.

Connector

2 x 10G Drilling Screws

ALMRJL

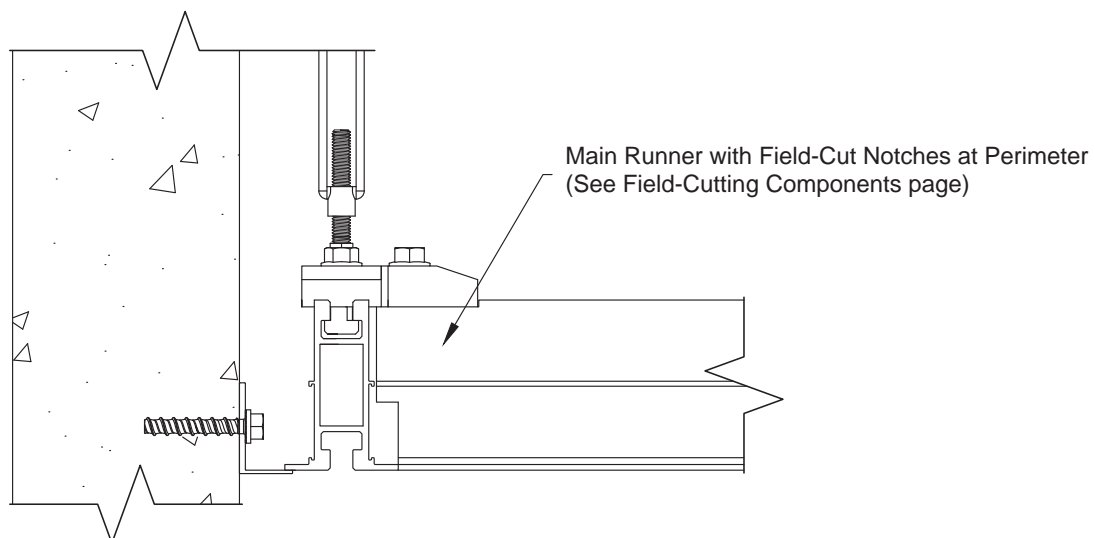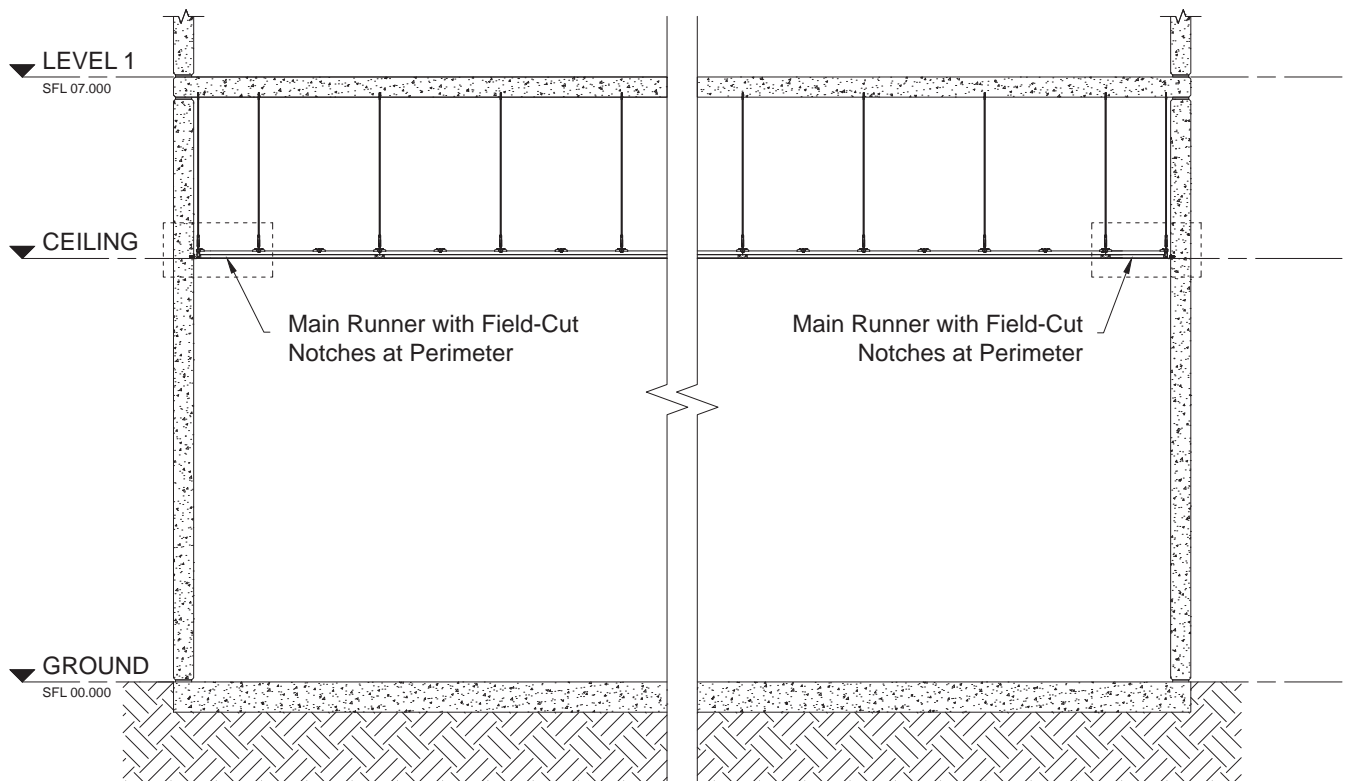**14. Stagger all Main Runner splice locations.**

Splice Location

Splice Location

1200mm

Splice Location

1200mm
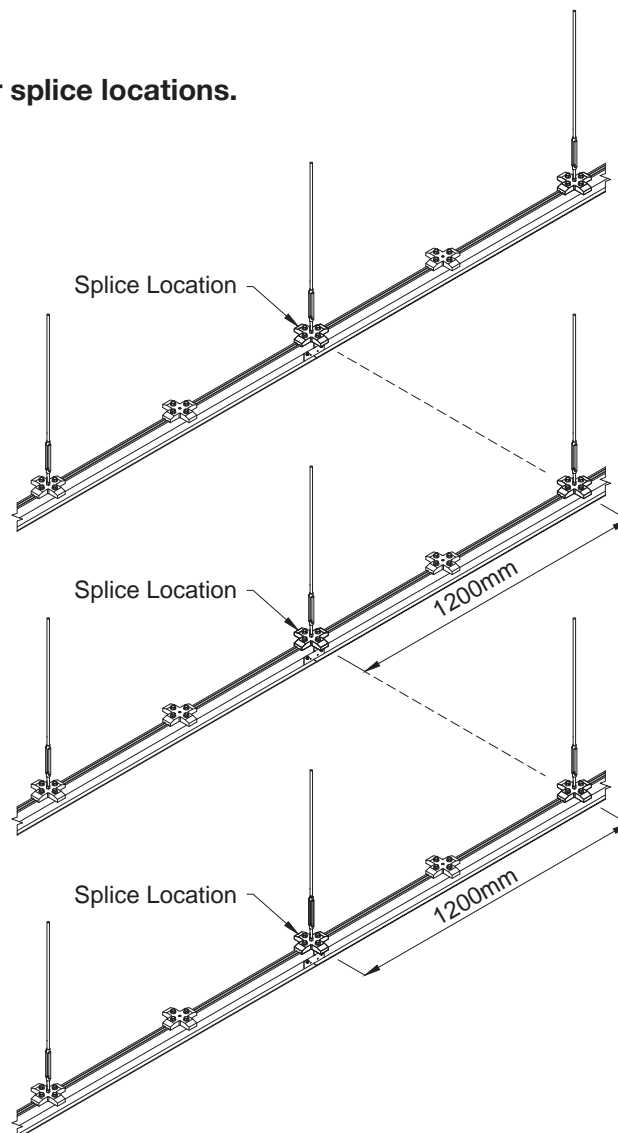
Installing Main Runners

15. Field-cut Main Runners, where required, to connect to perimeter members.

LEVEL 1
SFL 07.000

CEILING

Main Runner with Field-Cut
Notches at Perimeter

Main Runner with Field-Cut
Notches at Perimeter

GROUND
SFL 00.000

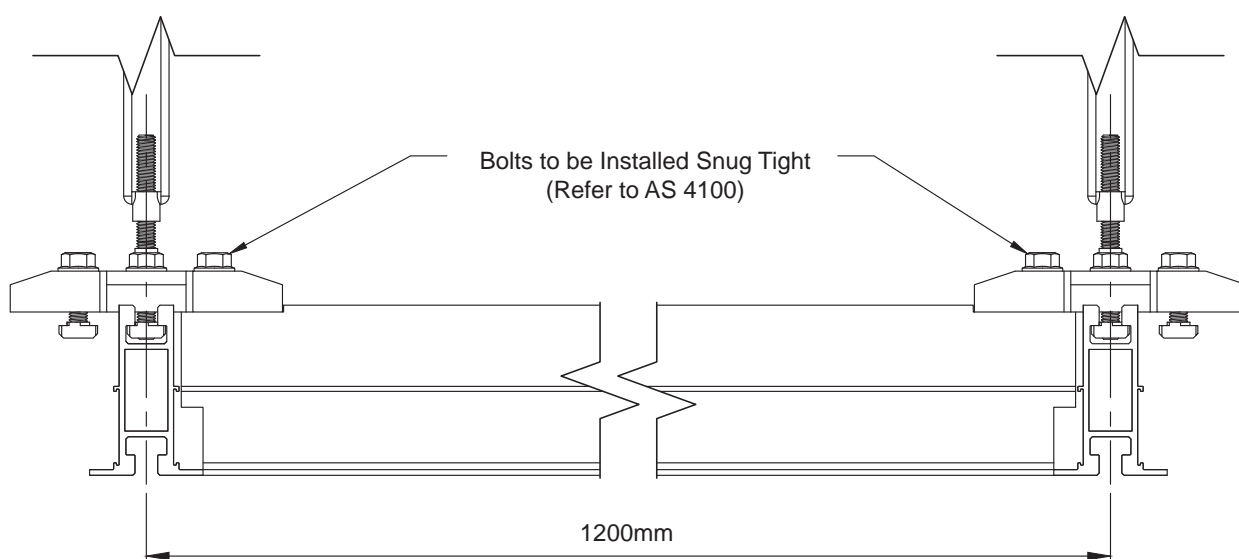Main Runner with Field-Cut Notches at Perimeter
(See Field-Cutting Components page)

Installing Cross Runners

16. **Place cross runner between Main Runners and underneath connectors as shown (DWDS75CR1200GW shown).**

Cross Runner

1150mm
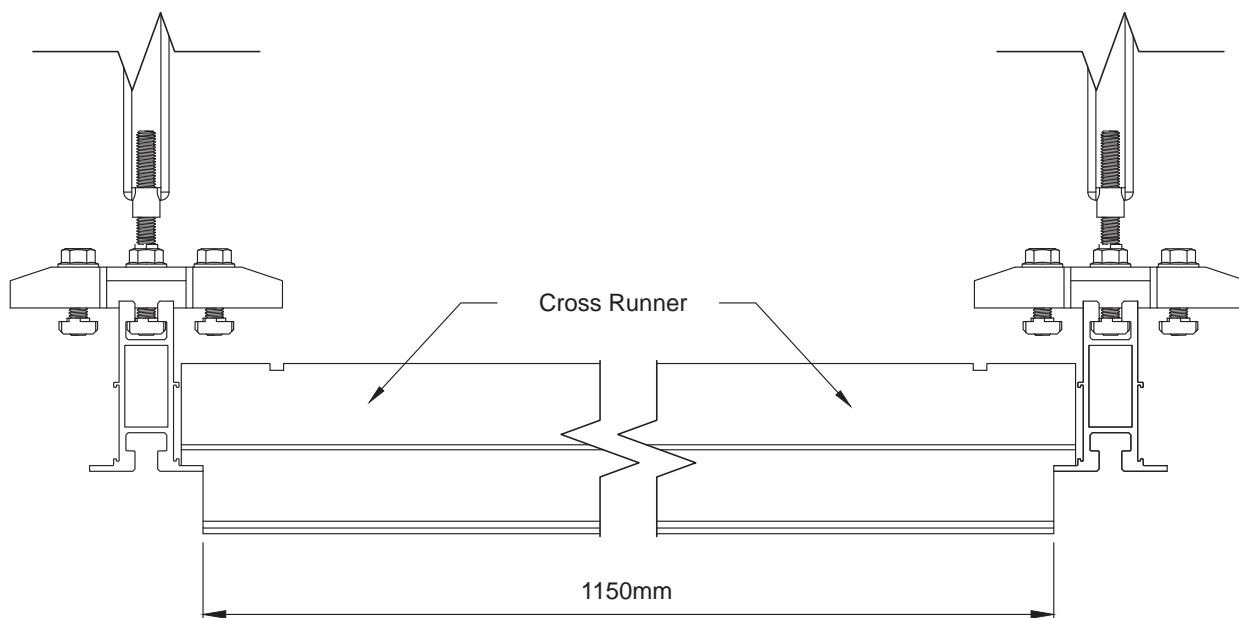
17. **Align Cross Runner notches with connector and tighten bolts.**

Bolts to be Installed Snug Tight
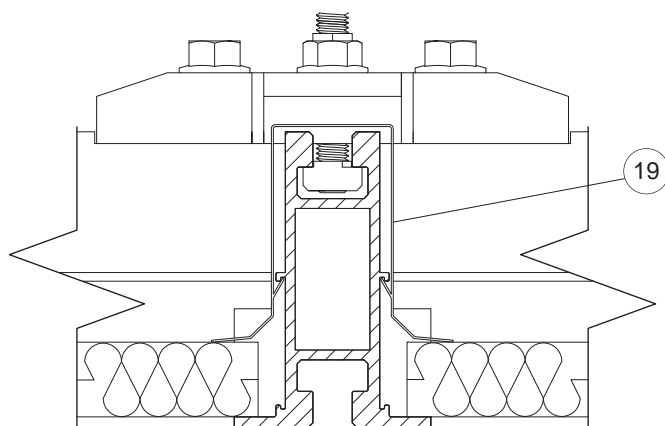(Refer to AS 4100)
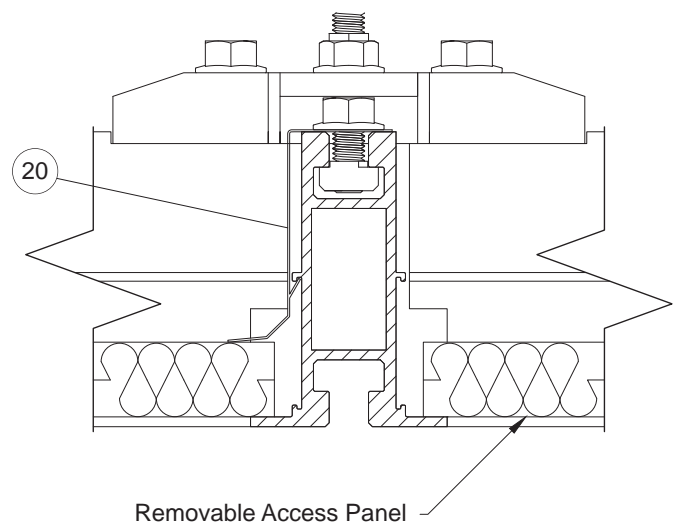
1200mm

Installing Ceiling Panels

18. **Install Mineral Fibre ceiling panels into grid.**

19. **Fit DWDSHDC Hold Down Clips on two edges of each panel.**

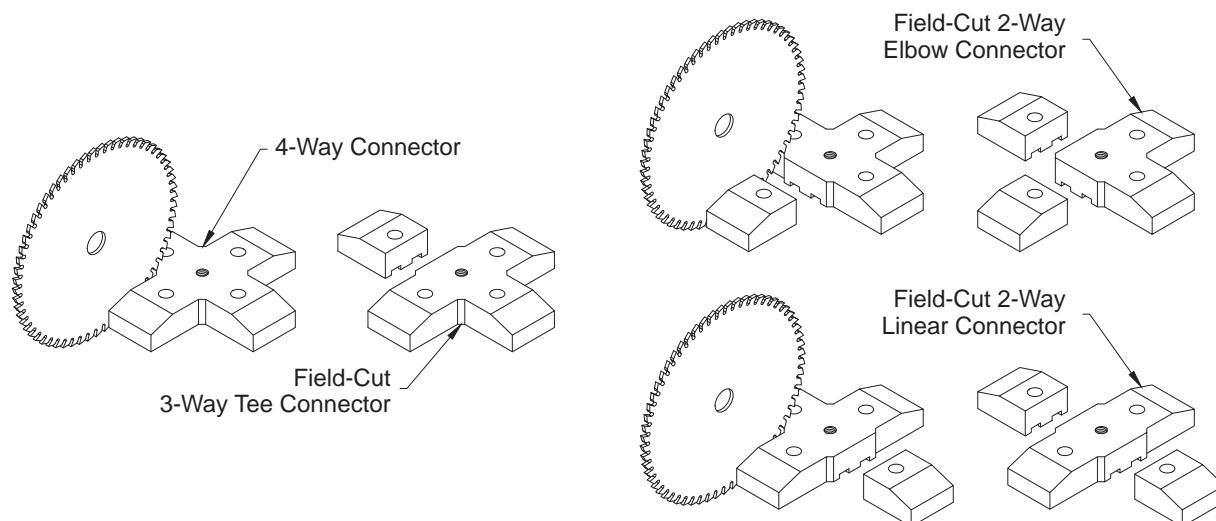20. **Where access panels are required, field-cut DWDSHDC and install using M8x16 bolt and rhombic nut.**

Removable Access Panel
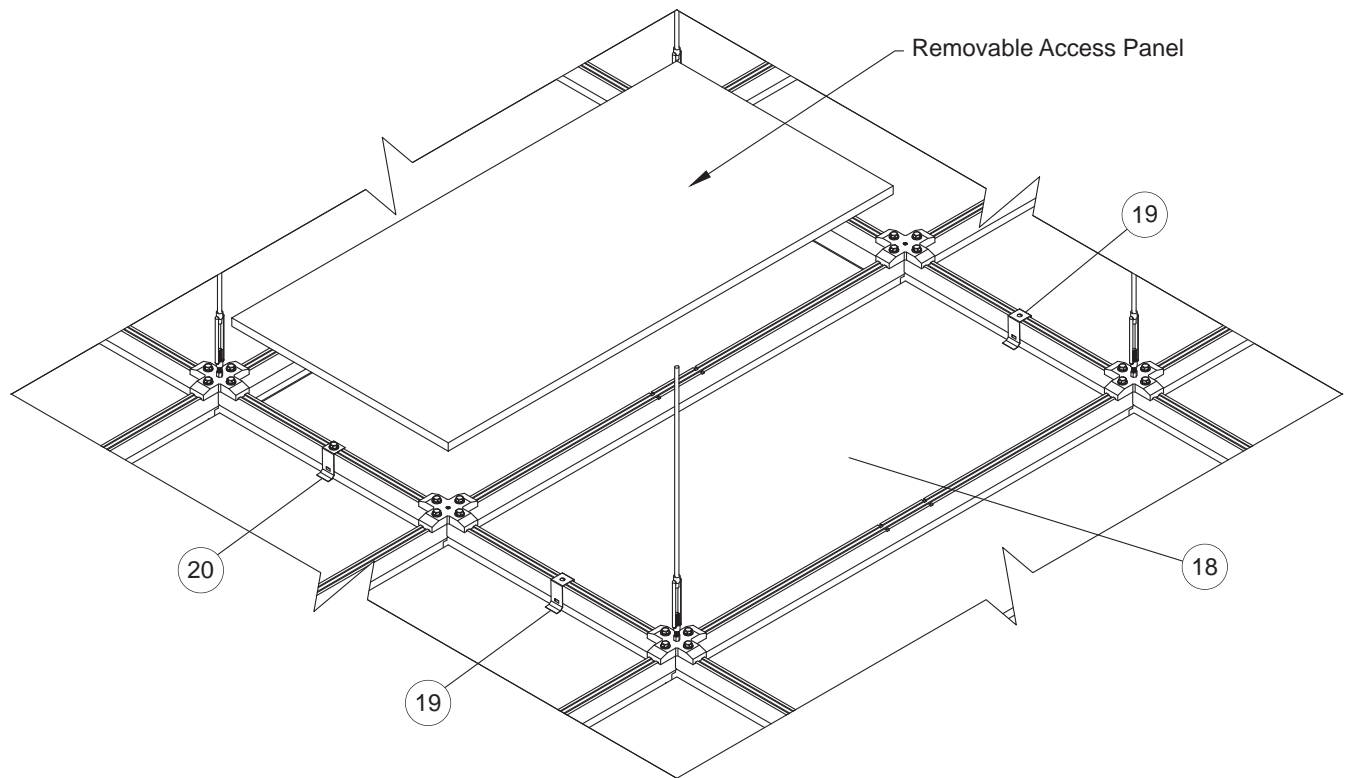
Hold Down Clip on Two Edges

Hold Down Clip with Access Panel

Removable Access Panel

# Field-Cutting Components

21. Field-Cutting Connectors

4-Way Connector

Field-Cut
3-Way Tee Connector

Field-Cut 2-Way
Elbow Connector

Field-Cut 2-Way
Linear Connector

22. Field-Cutting Connection Notches

39mm   6mm

3mm

30mm

10mm

Offcut
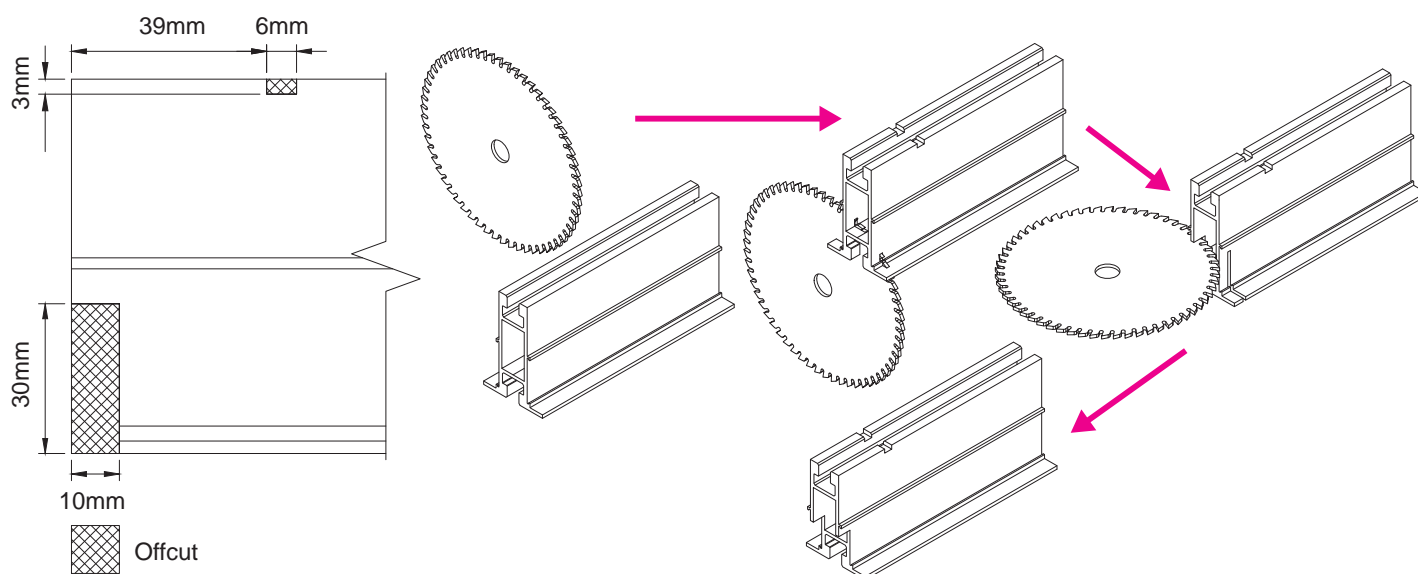
23. Field-Cutting Mitred Main Runners

79mm   6mm

45°

Grid Attachments
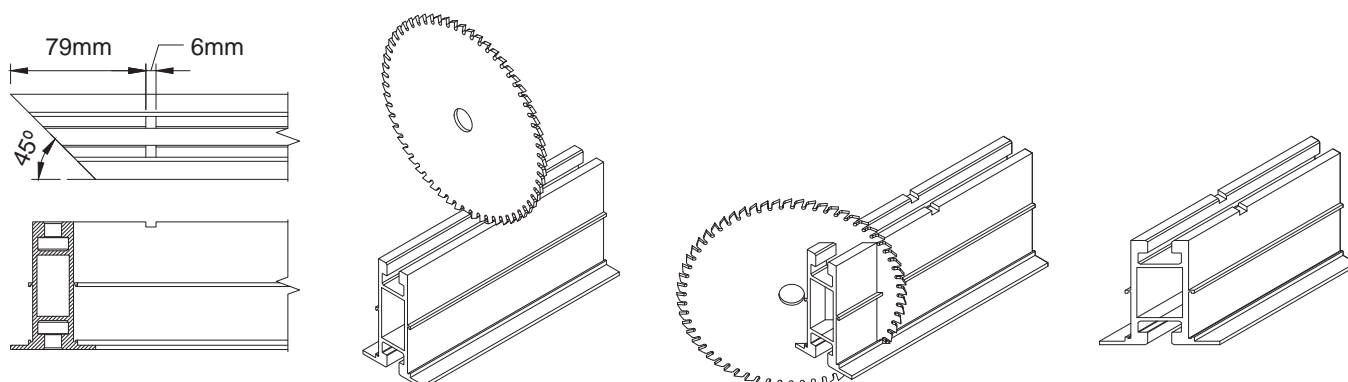
24. **Fit M8 Threaded Rod into ceiling grid using rhombic nut, M8 washer, and M8 nut as shown. All fasteners to be 304 Stainless Steel, and to be installed snug tight (Refer to AS 4100).**

M8 304 Stainless Steel Threaded Rod

Rhombic Nut

M8 Washer

M8 Nut

M8x20 Bolt Shown

Angle Bracket (by others)
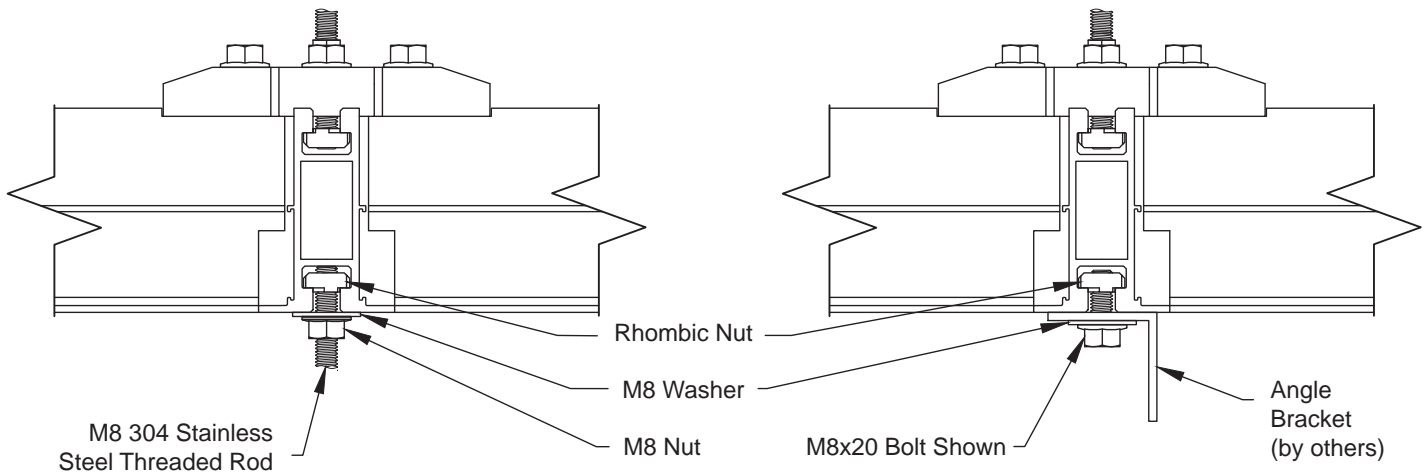
25. **Attach services and third-party components as required.**

DATAWORKS
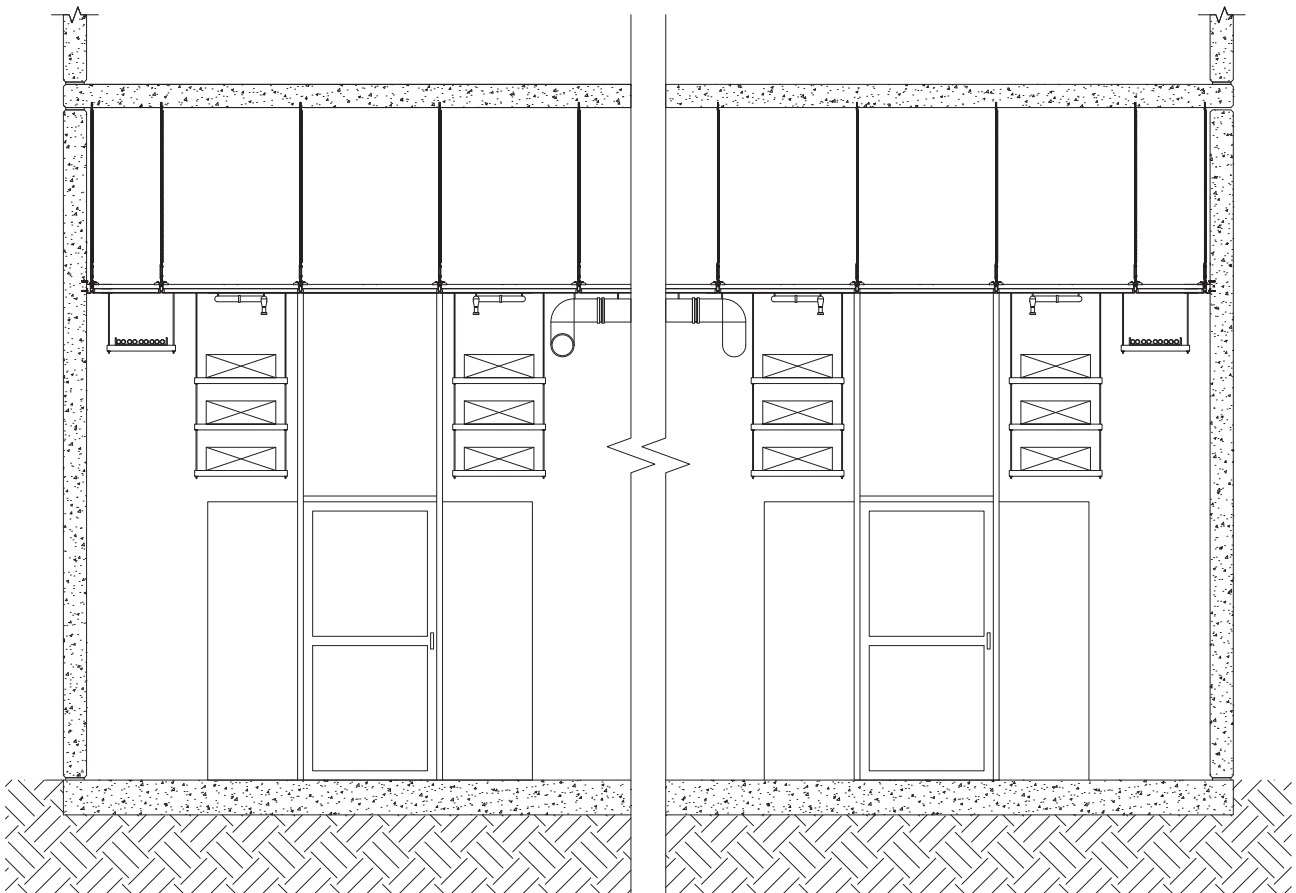
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