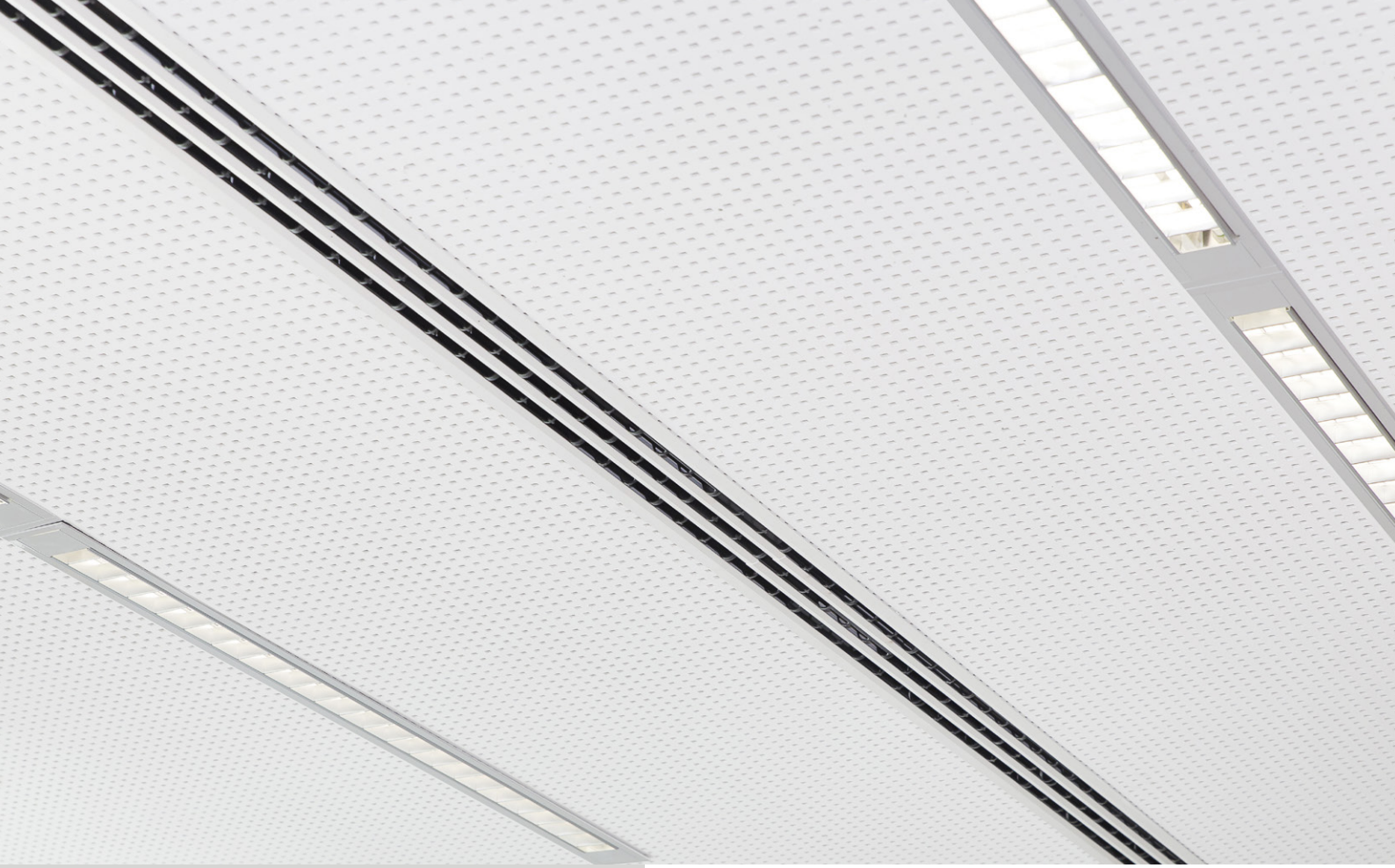


6.8 Createx Perforated Plasterboard

createx with CAPT'AIR® technology brings a breath of fresh air to wall and acoustic ceiling linings. Delivering excellent acoustic performance, stunning aesthetics and CAPT'AIR® air cleaning properties, **createx** is the smart choice for all commercial applications.

Manufactured with high quality, ultra-sharp perforations in a variety of continuous perforated patterns for a seamless finish, **createx** with CAPT'AIR® technology meets the high level of acoustic performance required for commercial public areas such as offices, shopping centres, airports, schools, hospitals, conference halls, lecture theatres and libraries.

createx with CAPT'AIR® technology incorporates urea polymer manufacturing process which reacts with formaldehyde creating a non-harmful compound that is absorbed by the plasterboard. This results in a safer environment for any space where **createx** is installed.

Round R8/18

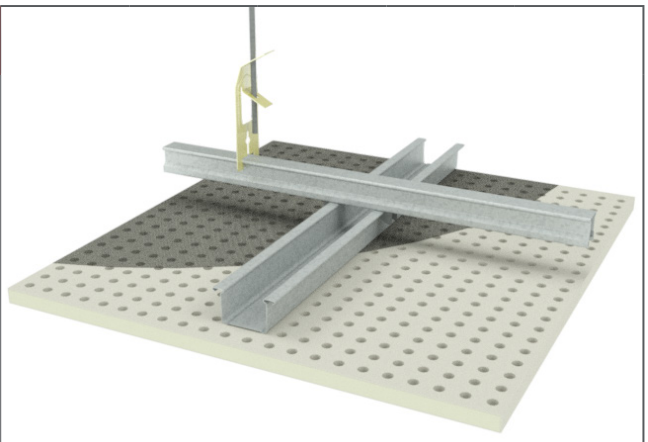
8mm diameter circle perforations with dark backing fleece

Open Area: 14.3 %

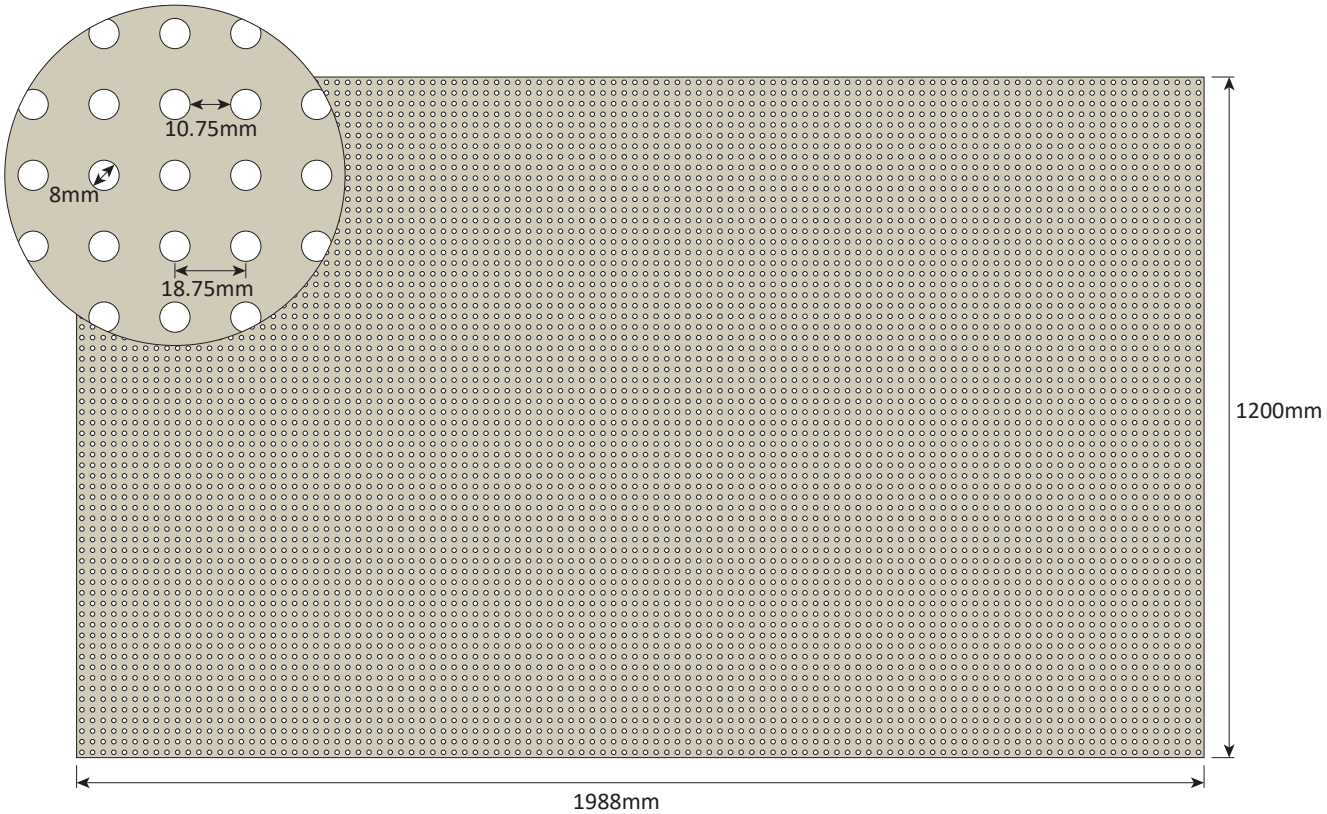
Furring Channel Centres: 400mm maximum

Sheet Dimensions: 1200 x 1988 x 12.5mm

Weight: 10 kg/m² (approximate)



	Ceiling Cavity (mm)	α_p - Frequency (Hz)						α_w	NRC
		125	250	500	1000	2000	4000		
Pink® Partition 50mm 14kg/m³ R1.3	50	0.35	0.85	1.0	0.9	0.65	0.6	**0.7**	**0.85**
	200	0.55	0.95	0.85	0.85	0.65	0.6	**0.7**	**0.85**
Pink® Partition 75mm 14kg/m³ R1.9	187	0.55	0.8	0.8	0.75	0.7	0.65	**0.7**	**0.75**
No Insulation	187	0.45	0.7	0.8	0.7	0.65	0.6	**0.7**	**0.7**
Pink® Partition 75mm 14kg/m³ R1.9	600	0.65	0.7	0.8	0.7	0.6	0.65	**0.7**	**0.7**



Round R12/25

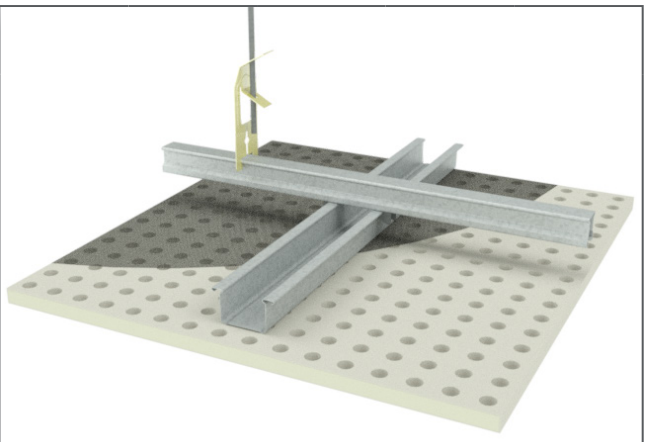
12mm diameter circle perforations with dark backing fleece

Open Area: 18.2 %

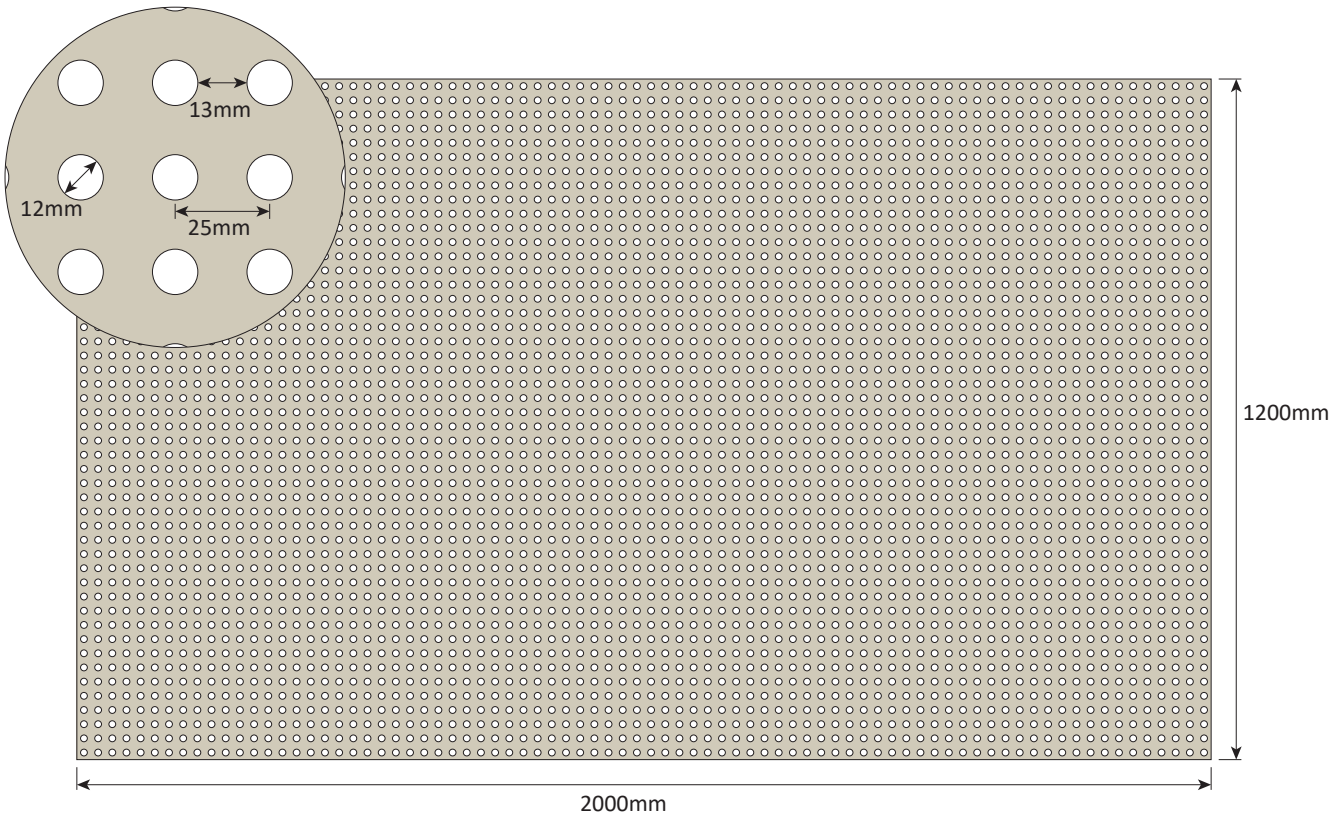
Furring Channel Centres: 400mm maximum

Sheet Dimensions: 1200 x 2000 x 12.5mm

Weight: 10 kg/m² (approximate)



	Ceiling Cavity (mm)	α_p - Frequency (Hz)						α_w	NRC
		125	250	500	1000	2000	4000		
Pink® Partition 50mm 14kg/m³ R1.3	45	0.35	0.75	0.95	0.9	0.75	0.65	**0.8**	**0.85**
Pink® Partition 75mm 14kg/m³ R1.9	187	0.6	0.8	0.85	0.8	0.8	0.75	**0.75**	**0.8**
No Insulation	187	0.45	0.75	0.9	0.7	0.7	0.55	**0.7**	**0.75**



Cube C12/25

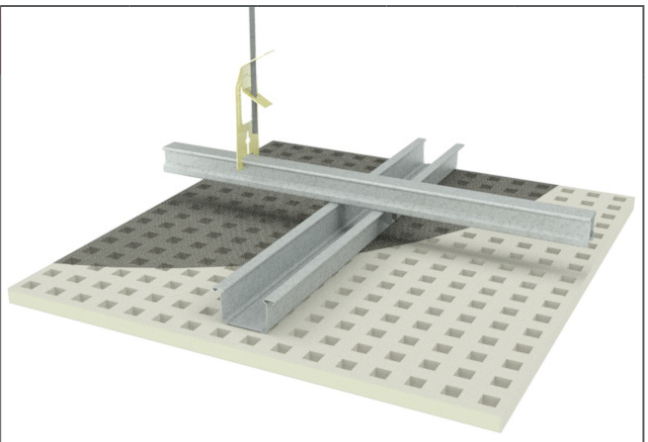
12mm square perforations with dark backing fleece

Open Area: 23.1 %

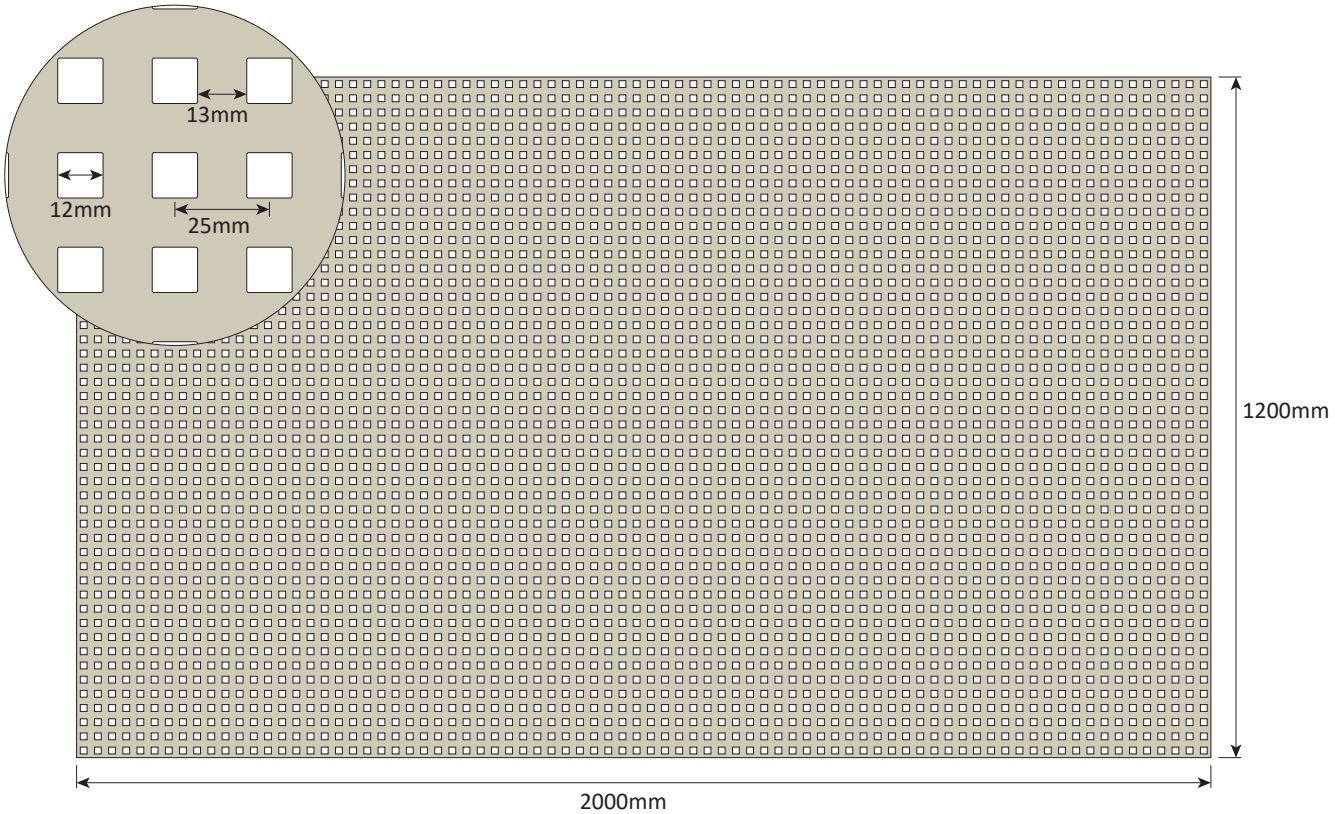
Furring Channel Centres: 400mm maximum

Sheet Dimensions: 1200 x 2000 x 12.5mm

Weight: 10 kg/m² (approximate)



	Ceiling Cavity (mm)	α_p - Frequency (Hz)						α_w	NRC
		125	250	500	1000	2000	4000		
Pink® Partition 50mm 14kg/m³ R1.3	50	0.25	0.7	0.85	0.85	0.75	0.75	**0.85**	**0.8**
No Insulation	187	0.45	0.8	0.9	0.75	0.7	0.65	**0.75**	**0.8**
Pink® Partition 75mm 14kg/m³ R1.9	187	0.6	0.9	0.95	0.9	0.85	0.8	**0.9**	**0.9**
Pink® Partition 75mm 14kg/m³ R1.9	600	0.75	0.8	0.9	0.85	0.75	0.8	**0.85**	**0.85**



Dynamic D8-12

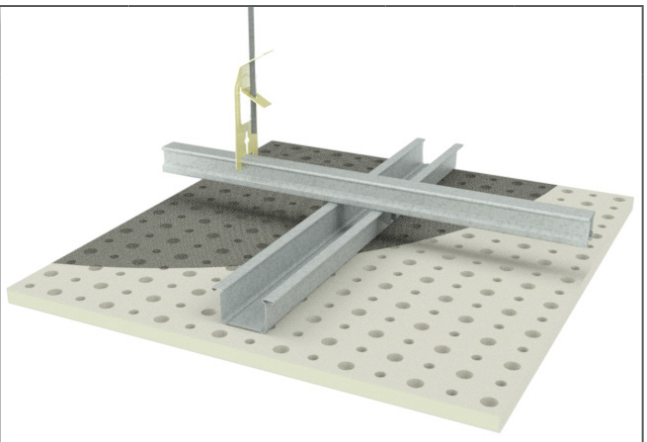
8mm and 12mm diameter circle perforations with dark backing fleece

Open Area: 13.1 %

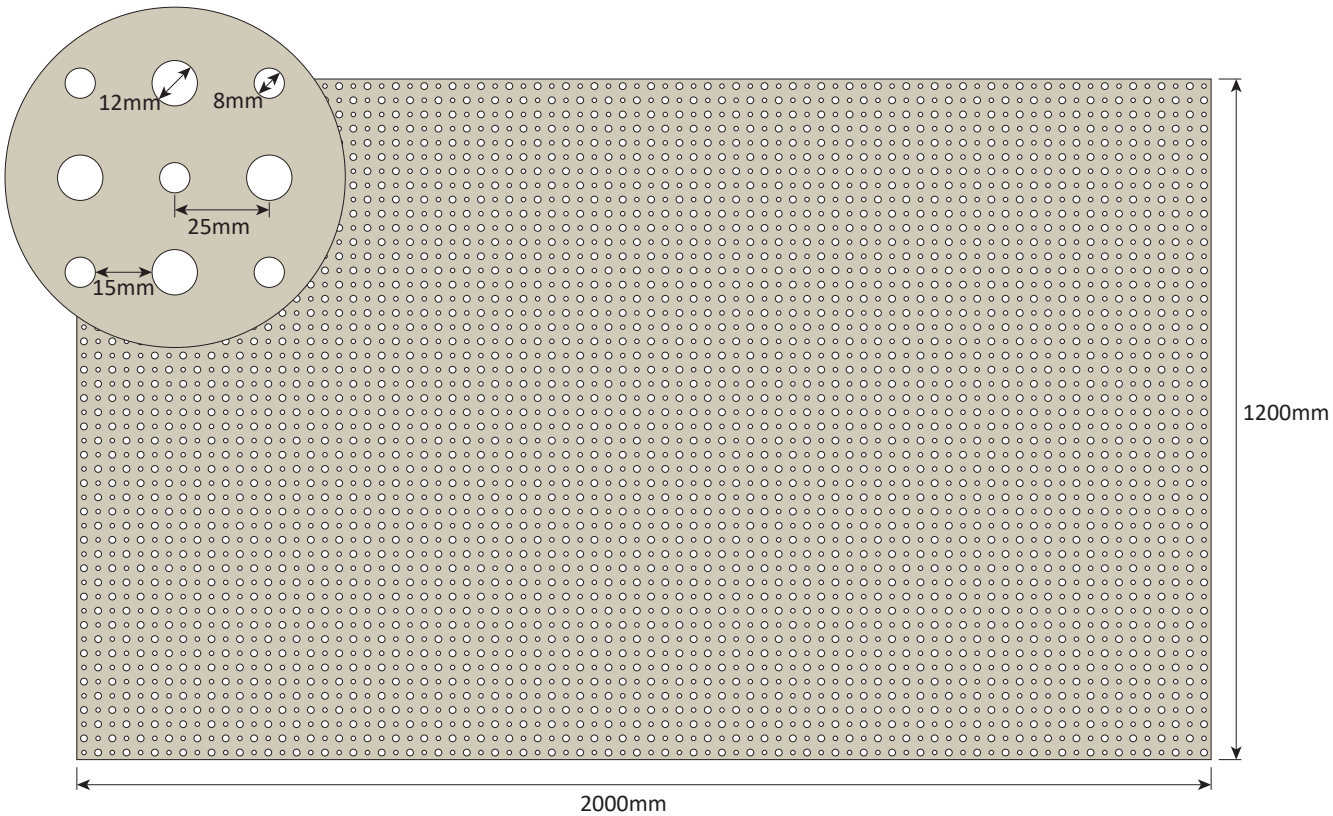
Furring Channel Centres: 400mm maximum

Sheet Dimensions: 1200 x 2000 x 12.5mm

Weight: 10 kg/m² (approximate)



	Ceiling Cavity (mm)	α_p - Frequency (Hz)						α_w	NRC
		125	250	500	1000	2000	4000		
No Insulation	187	0.25	0.65	0.6	0.35	0.3	0.35	**0.35**	**0.5**
Pink® Partition 75mm 14kg/m³ R1.9	187	0.55	1.0	0.9	0.7	0.5	0.45	**0.55**	**0.8**
Pink® Partition 75mm 14kg/m³ R1.9	600	0.6	0.7	0.75	0.7	0.6	0.6	**0.7**	**0.7**



Space S8-15-20

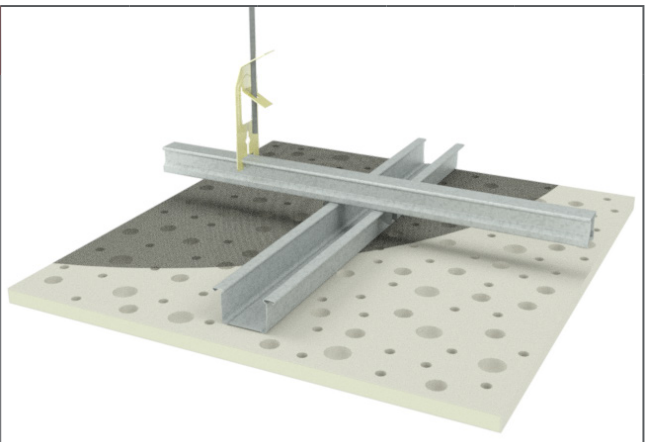
8mm, 15mm and 20mm diameter circle perforations with dark backing fleece

Open Area: 10.2 %

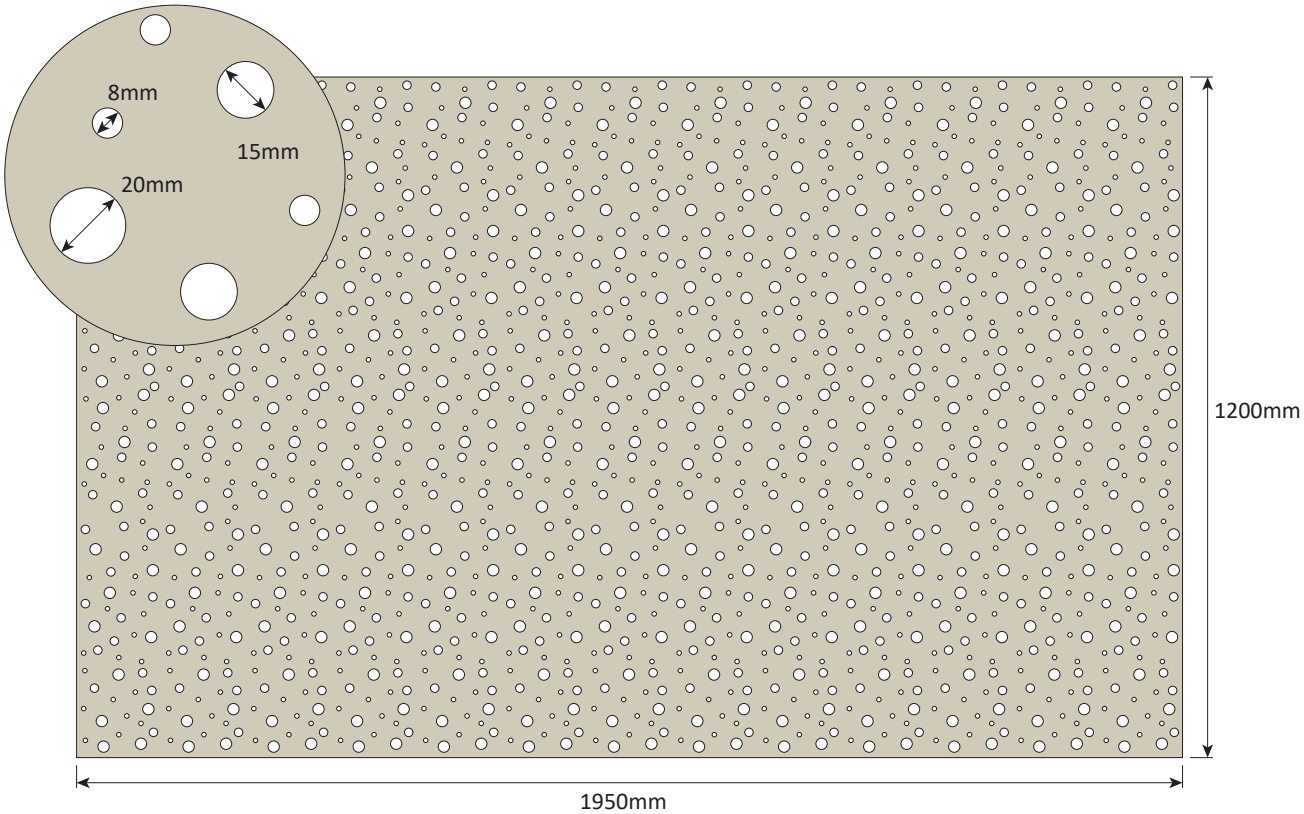
Furring Channel Centres: 400mm maximum

Sheet Dimensions: 1200 x 1950 x 12.5mm

Weight: 10 kg/m² (approximate)



	Ceiling Cavity (mm)	α_p - Frequency (Hz)						α_w	NRC
		125	250	500	1000	2000	4000		
Pink® Partition 50mm 14kg/m³ R1.3	45	0.4	0.7	0.65	0.65	0.5	0.5	**0.6**	**0.65**
No Insulation	187	0.45	0.65	0.7	0.6	0.45	0.4	**0.5**	**0.6**
Pink® Partition 50mm 14kg/m³ R1.3	187	0.45	0.6	0.65	0.65	0.5	0.5	**0.6**	**0.6**
Pink® Partition 75mm 14kg/m³ R1.9	187	0.5	0.65	0.65	0.65	0.5	0.5	**0.6**	**0.6**
Pink® Partition 75mm 14kg/m³ R1.9	600	0.6	0.6	0.7	0.65	0.45	0.45	**0.55**	**0.6**



Edge Type

V Edge

All createx perforation patterns come with a V edge profile.

The V edge profile easily facilitates precise alignment of the perforated boards, ensuring that the boards are straight and the continuous perforation patterns align perfectly.

The V edge is used when a jointless appearance is required. Joints are tapeless and virtually invisible when filled with Siniat **set** jointing compound followed by masta**lite**, masta**glide**, or masta**line** to finish the joint ready for painting.

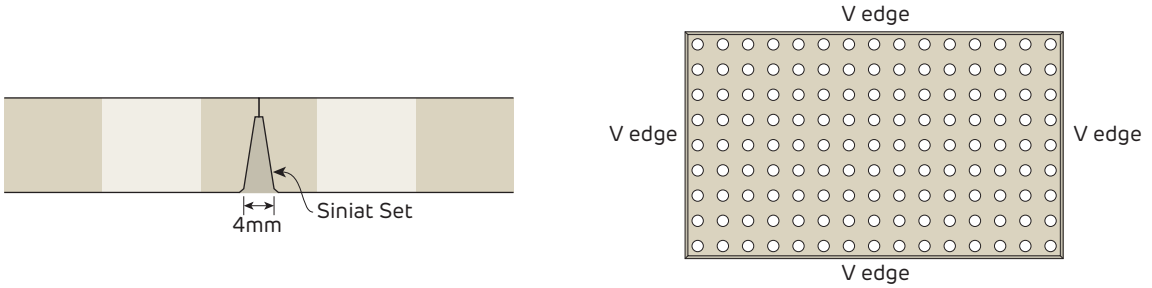


FIGURE 1 V Edge
Section

Createx Jointing Compound

Name	Application	Size	Type	Working Time	Setting Time
Siniat **set**	Createx Joints	10 kg bag	Powder	45 minutes	60 minutes

General Requirements

Install control joints in internal plasterboard ceilings: > At 10m maximum intervals > At all movement joints in the building > At any change in the substrate > At the junction of a larger room and passageway. Separate create**tex** ceilings from other building elements, such as walls and columns by creating control joints that allow for movement, e.g. utilising a shadow line profile or tear away bead.
Do not rigidly fix create**tex** to the perimeter.
All ceilings in this section are non-trafficable. Do not walk on plasterboard ceilings!
Limit dead loads on create**tex** ceilings to 2 kg/m^2.
Attach ceiling fixtures to framing members only. Ensure the framing is designed to carry any additional load.
Cut all openings for services before jointing with Siniat **set**.
Locate ceiling services between framing to avoid cutting of top cross rails or furring channels. If furring channels are cut then provide additional support with top cross rails and hangers. Refer to Figures 14 and 15.

> create**tex** must have an air cavity behind it for it to perform as a sound absorber.

> create**tex** installations in close proximity to metal roofs (i.e. raked ceiling or with small ceiling cavities) require smaller control joint intervals or joints left unfilled as they are exposed to larger rates of thermal expansion and contraction of the roof and/or ceiling framing otherwise cracking of the ceiling and joint peaking is expected.

> Excessive vibration of the ceiling (by installing ceiling services, etc) is known to cause jointing cracking and joint peaking.

> Locate ceiling services so they do not cut through ceiling framing members, otherwise some degradation of the ceiling can be expected.

Use the Siniat Reverberation time calculator to assist in determining how much of the ceiling and or wall area should be covered. Alternatively involve an acoustic consultant, especially for very high ceilings and unusually shaped rooms such as those with domed or sloping ceilings.

Siniat Reverberation Time Calculator

Framing

Framing members as per framing tables or structural design up to 400mm maximum. Also refer to Section 5.1 for more information on ceiling framing.
For a specific project, determine the relevant wind pressure load on an internal ceiling from Section 2.3, or the QR link below. Wind pressure loads must be considered for internal ceilings to comply with *AS/NZS 1170.2 Wind Actions* and *AS/NZS 2785 Suspended Ceilings - Design and Installation.*
Contact Siniat or a structural engineer to check ceiling for earthquake actions. Specific project information is required.
Stagger joins in adjacent Top Cross Rails and Furring Channels by 1200mm minimum.
Install additional framing members around openings.
Back all short edges (butt joints) with a Siniat Wide-face Furring Channel (F60/28).
Downstruts must be installed for Top Cross Rail suspended ceilings in all buildings except air-conditioned hospitals, offices and shopping centres that are effectively sealed where the external walls have non-opening windows. Refer to Downstrut Framing Tables.

Do not fix **createx** directly to timber joists

Siniat Internal Wind Load Calculator

Non-Fire Rated
Internal Direct Fix Ceiling Frames

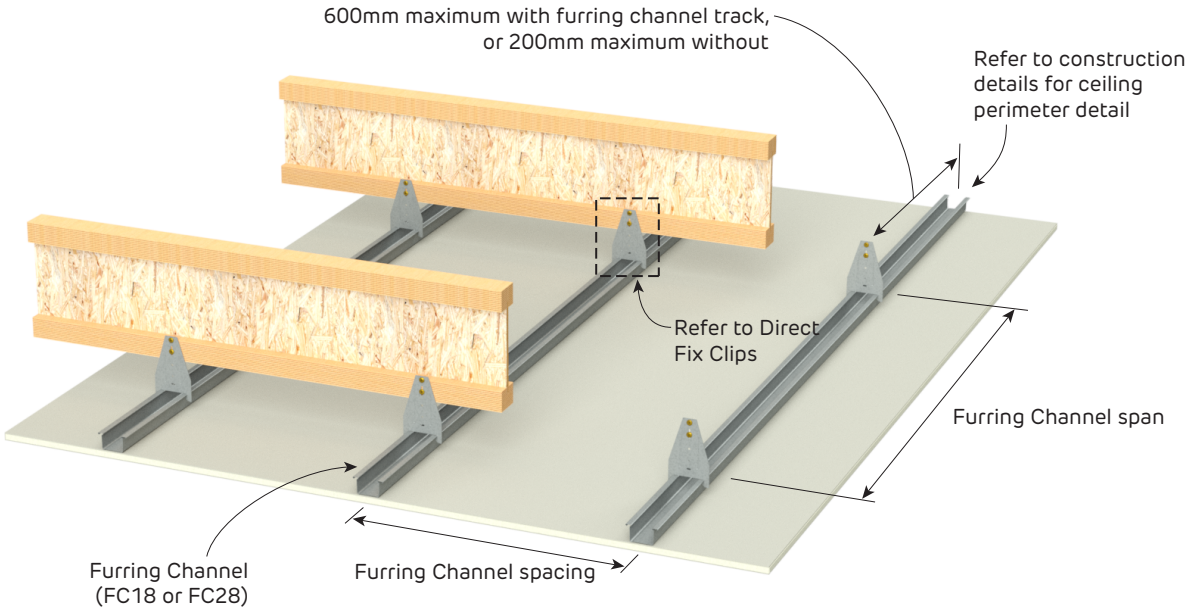


FIGURE 1 Direct Fix Furring Channel Ceiling Frame
Perspective

Details for Single Span, Double Span or 3-or-More Span Ceilings

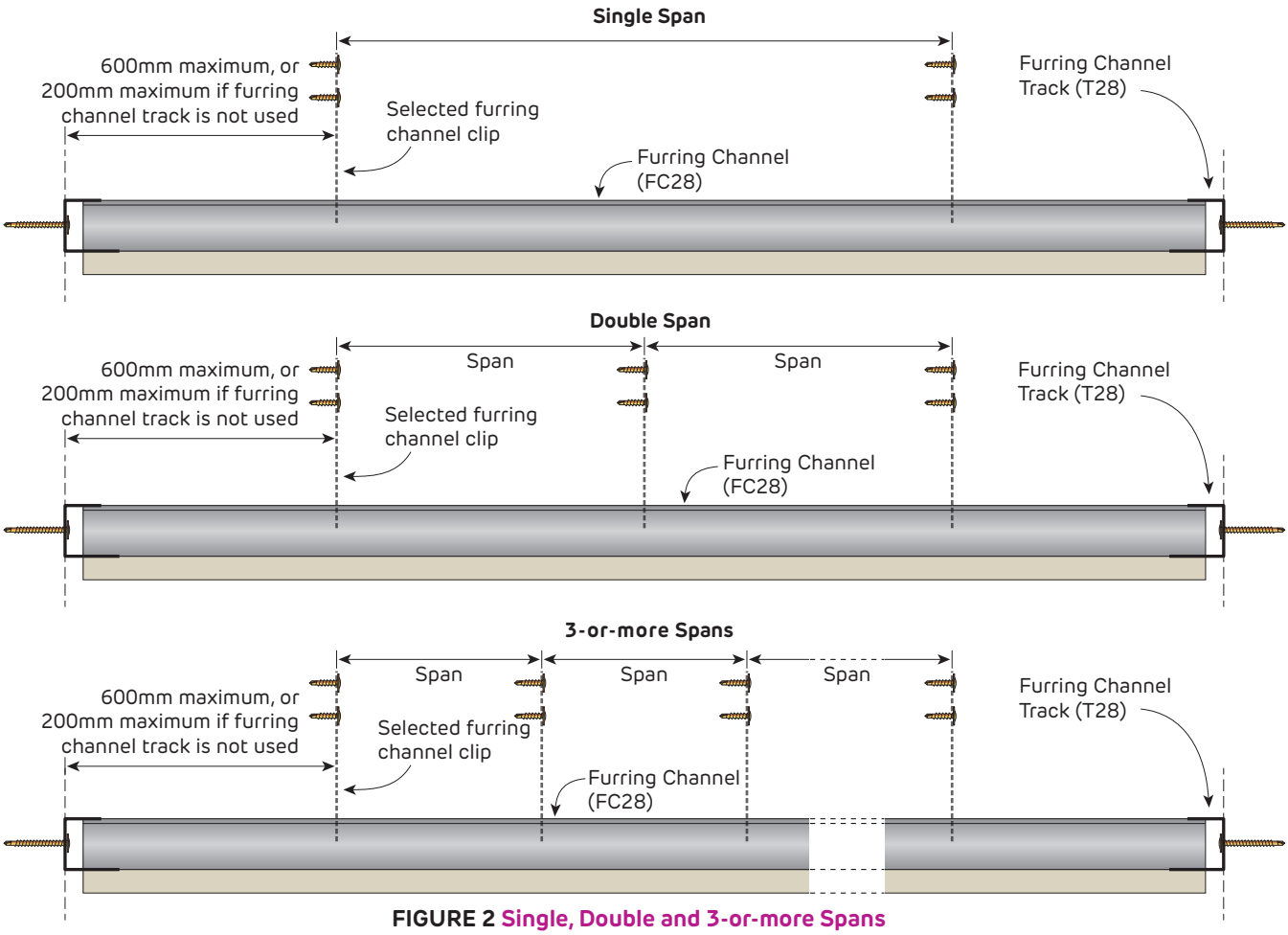


FIGURE 2 Single, Double and 3-or-more Spans
Section

Non-Fire Rated
Typical Direct Fix Clips

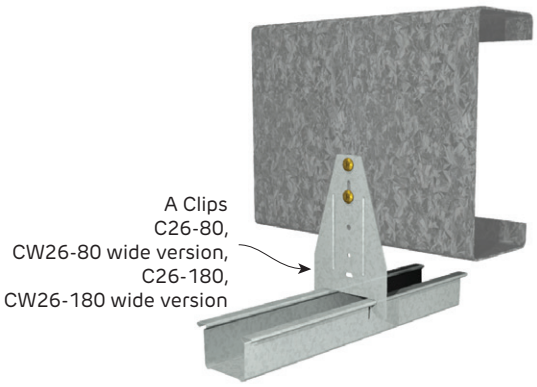


FIGURE 3 A Clip and Furring Channel
Perspective

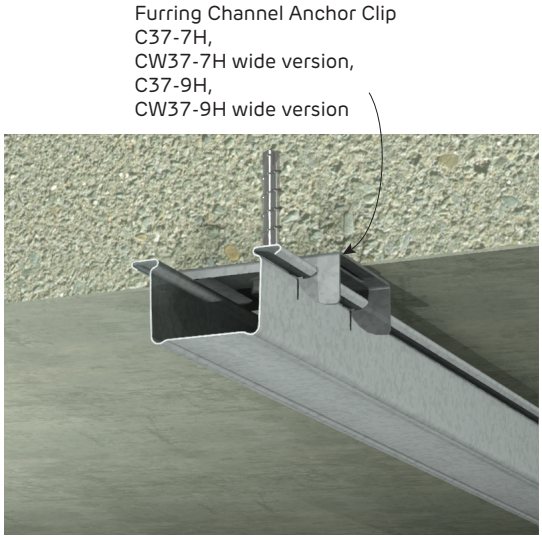


FIGURE 4 Anchor Clip and Furring Channel
Perspective

Direct fixing clips may generate noise when fixed to materials subject to daily thermal expansion and contraction

Table 1 28mm Furring Channel Ceiling Span Table

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

28mm Furring Channel (AFC28) Ceiling Span Table Furring channels at 400mm maximum spacing						
Wind Region	**Ultimate Wind Pressure W_u (kPa)**	**Serviceability Wind Pressure W_s (kPa)**	**Single Span**		**2 or more Spans**	
			Maximum Span (mm)	Connection Demand (kN)	Maximum Span (mm)	Connection Demand (kN)
REGION A	0.39	0.25	1350	0.15	1670	0.47
	0.47	0.3	1270	0.16	1570	0.50
	0.54	0.35	1200	0.17	1490	0.53
REGION B	0.59	0.25	1350	0.20	1670	0.63
	0.71	0.3	1270	0.22	1570	0.69
	0.83	0.35	1200	0.24	1490	0.74

1. Table based upon downward (suction) and upward (uplift) pressures, intended for internal use only.
2. Table includes self weight and 2 kg/m^2 insulation weight with an additional 3 kg/m^2 service load. No further allowance for additional point loads or live loads.
3. Contact Siniat or a structural engineer to check ceiling for earthquake actions. Specific project information is required.
4. Table refers to Siniat Furring Channel of Base Metal Thickness (BMT) 0.42mm of grade G550 steel with Zincalume™ AM150 corrosion protection. Maximum production lengths available are 6.0m
5. Designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures* and *AS/NZS 2785:2000 Suspended Ceilings - Design and Installation.*
6. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions.*
7. Connections to clips must be checked with the *Clip Capacity Table* in Section 5.1.
8. Ultimate Limit State Load Case 1: 1.2G + Wu (Suction) + $Q_{0.03kPa\ Service\ Load}$
   Ultimate Limit State Load Case 2: 0.9G + Wu (Uplift).
9. Serviceability Limit State Load Case 1: G, with deflection limited to Span/500.
   Serviceability Limit State Load Case 2: Ws, with deflection limited to Span/360.
10. Perimeter anchors at 600mm maximum centres and 100mm maximum from track ends with minimum 0.7 kN shear capacity.
11. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.
12. For BCA Building Importance Level 4, please contact Siniat.

Non-Fire Rated
Internal Suspended Ceiling Frames

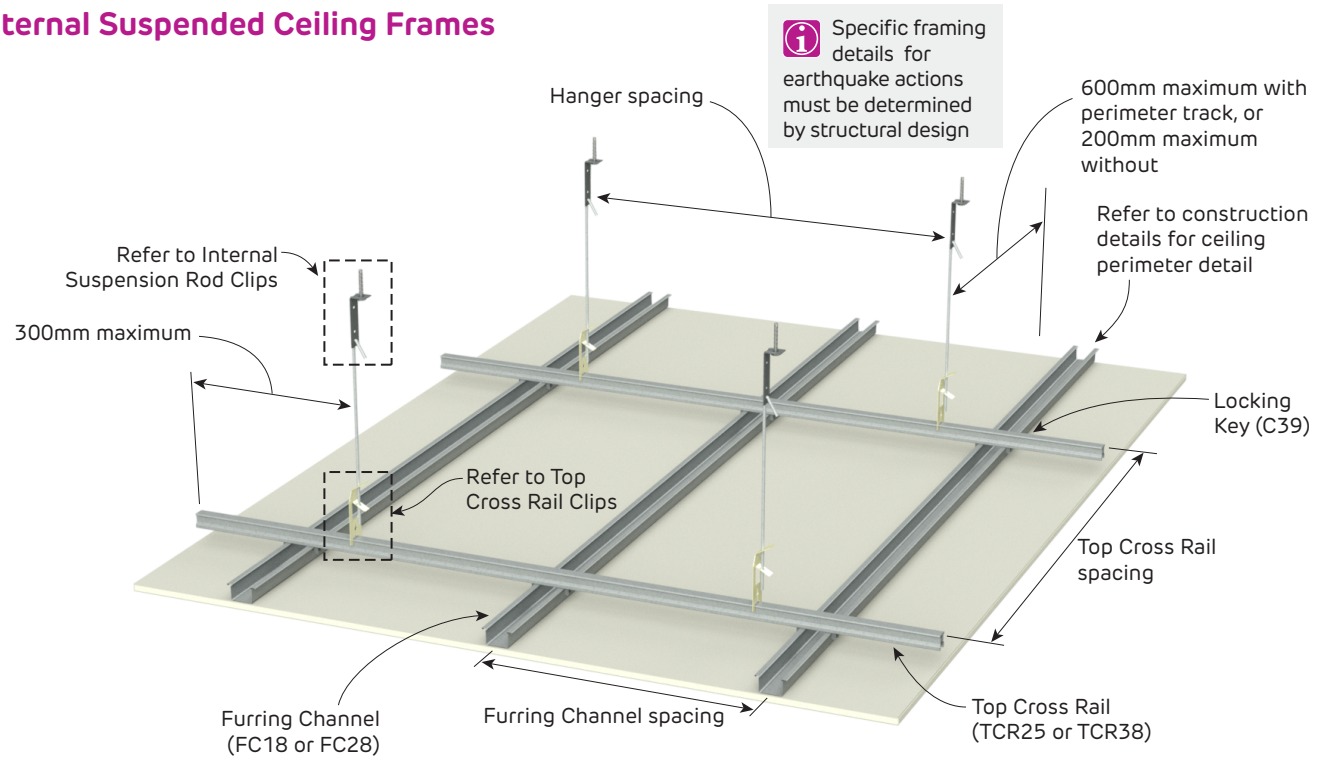


FIGURE 5 Suspended Ceiling Frame
Perspective

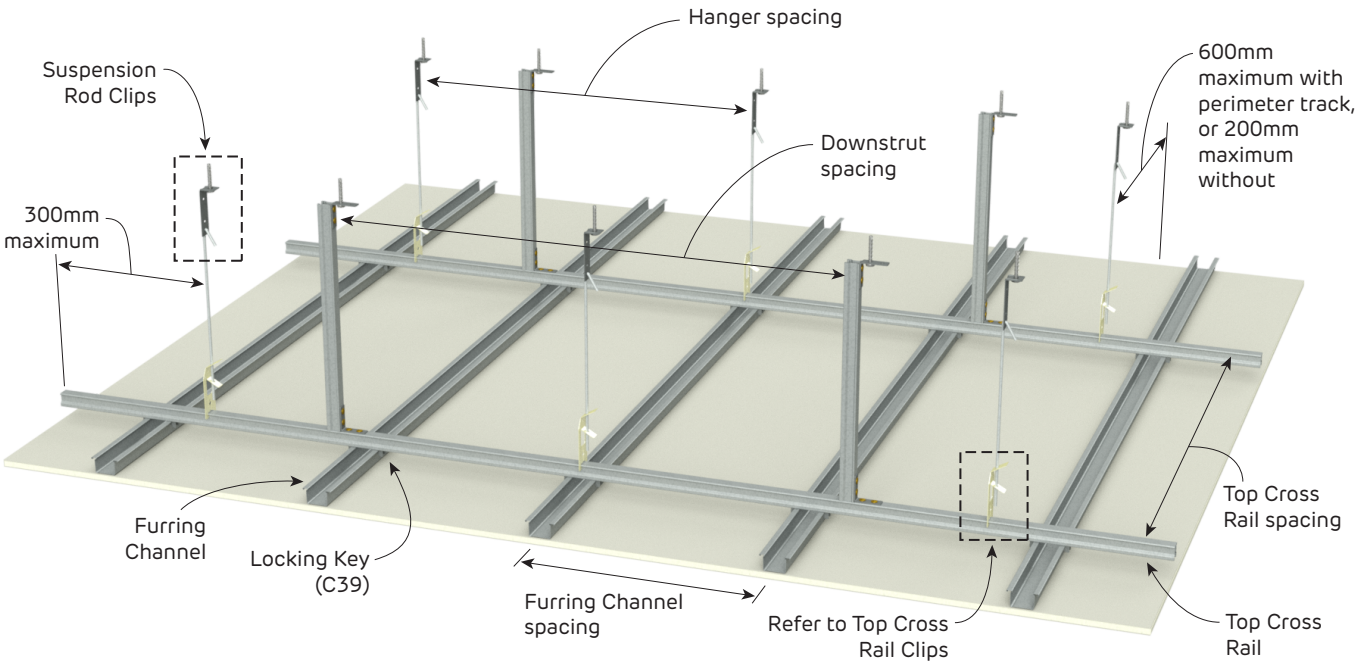


FIGURE 6 Suspended Ceiling Frame with Downstruts
Perspective

Non-Fire Rated

Typical Suspension Rod Clips

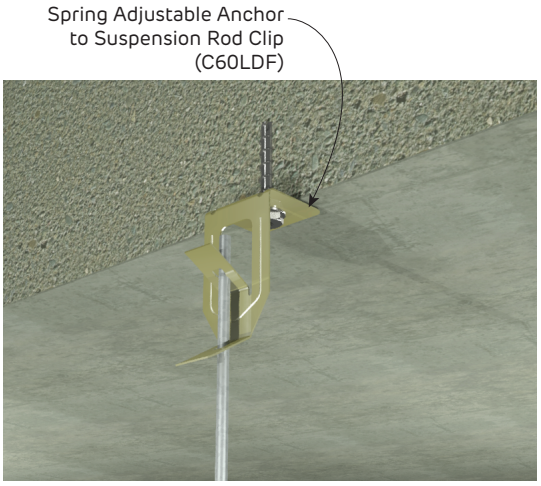


FIGURE 7 Spring Adjustable Direct Fix Clip to Concrete
Perspective

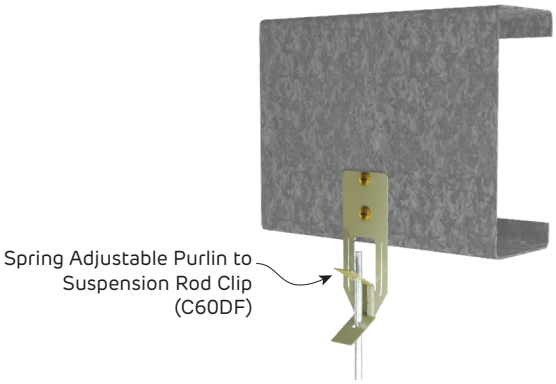


FIGURE 8 Spring Adjustable Direct Fix Clip to Purlin
Perspective

Typical Top Cross Rail Clips

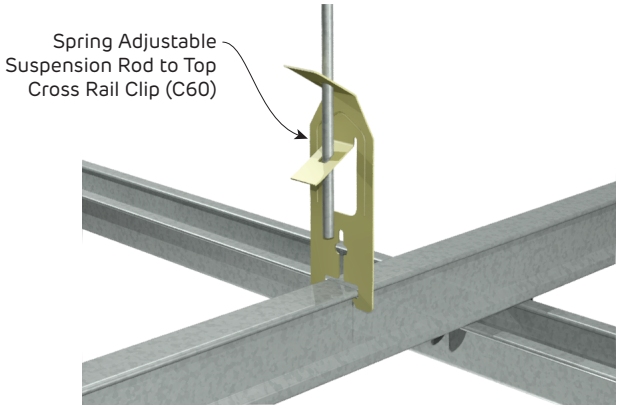


FIGURE 9 Spring Adjustable Suspension Rod to TCR Clip
Perspective and Sections

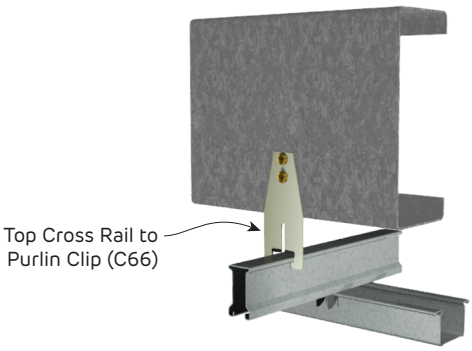


FIGURE 10 Top Cross Rail Direct Fix Clip to Purlin
Perspective and Sections

Locking Key

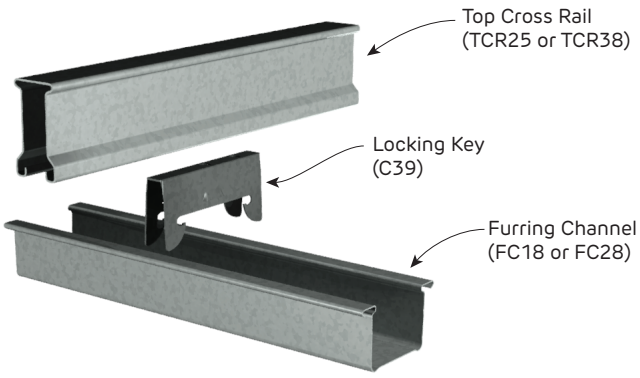
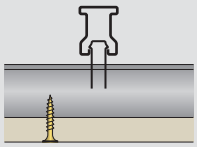


FIGURE 11 Locking Key
Perspective

Table 2 Top Cross Rail Ceiling Span Table - WIND REGION A

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Top Cross Rail Span Table Suspended ceiling lined with Createx and 28mm Furring channels (AFC28) at 400mm maximum spacing						Up to BCA Building Importance Level 3	
Ultimate Wind Pressure W_u (kPa)	Serviceability Wind Pressure W_s (kPa)	Top Cross Rail	Top Cross Rail Spacing (mm)	Double Span		3 or more Spans	
				Hanger Spacing (mm)	Hanger Demand (kN)	Hanger Spacing (mm)	Hanger Demand (kN)
0.39	0.25	TCR25	900	1060	1.04	1150	1.03
			1050	980	1.12	1060	1.11
			1200	920	1.20	990	1.18
		TCR38	900	1270	1.24	1370	1.23
			1050	1170	1.34	1270	1.33
			1200	1100	1.43	1200	1.42
0.47	0.3	TCR25	900	1000	1.11	1080	1.10
			1050	920	1.19	1000	1.19
			1200	860	1.28	930	1.26
		TCR38	900	1190	1.32	1290	1.31
			1050	1100	1.43	1190	1.41
			1200	1030	1.53	1110	1.51
0.54	0.35	TCR25	900	950	1.17	1020	1.15
			1050	880	1.26	950	1.25
			1200	820	1.35	890	1.34
		TCR38	900	1130	1.39	1220	1.37
			1050	1050	1.51	1130	1.48
			1200	980	1.61	1060	1.59

1. Table based upon downward (suction) and upward (uplift) pressures, intended for internal use only. Down-struts are required for uplift.
2. Table includes self weight and 1 kg/m^2 insulation weight with an additional 3 kg/m^2 service load. No further allowance for additional point loads or live loads.
3. Downstruts must be installed for TCR suspended ceilings in all buildings except air-conditioned hospitals, offices and shopping centres that are effectively sealed where the external walls have non-opening windows.
4. Contact Siniat or a structural engineer to check ceiling for earthquake actions. Specific project information is required.
5. Table refers to Siniat Furring Channels of 0.42mm Base Metal Thickness (BMT) of grade G550 steel and Siniat Top Cross Rails of 0.75mm BMT of grade G300, both with Zincalume™ AM150 corrosion protection. Maximum production lengths available are 6.0m
6. Furring Channels checked for 2-or-more spans only. If required, contact Siniat for Single Span furring channel check.
7. Designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures* and *AS/NZS 2785:2000 Suspended Ceilings - Design and Installation.*
8. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions*.
9. Connections to clips must be checked with the *Clip Capacity Table* in Section 5.1.
10. Ultimate Limit State Load Case 1: 1.2G + Wu (Suction) + $Q_{0.03kPa\ Service\ Load}$
    Ultimate Limit State Load Case 2: 0.9G + Wu (Uplift).
11. Serviceability Limit State Load Case 1: G, with deflection limited to Span/500.
12. Serviceability Limit State Load Case 2: G + Ws, with deflection limited to Span/200.
13. Perimeter anchors at 600mm maximum centres and 100mm maximum from track ends with minimum 0.7 kN shear capacity.
14. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.
15. For BCA Building Importance Level 4, please contact Siniat.

Concrete Soffit Anchor Table

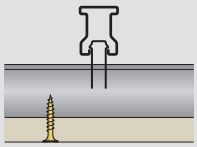
Concrete Grade	C1 Anchor
20 - 25 MPa	SA6x60
≥32MPa	SA6x45

Concrete Grade	C2 Anchor
≥ 20 MPa	SXTB08055

1. No edge / spacing effects.

Table 3 Top Cross Rail Ceiling Span Table - WIND REGION B

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Top Cross Rail Span Table Suspended ceiling lined with Createx and 28mm Furring channels (AFC28) at 400mm maximum spacing						Up to BCA Building Importance Level 3	
Ultimate Wind Pressure W_u (kPa)	**Serviceability Wind Pressure W_s (kPa)**	**Top Cross Rail**	**Top Cross Rail Spacing (mm)**	**Double Span**		**3 or more Spans**	
				Hanger Spacing (mm)	Hanger Demand (kN)	Hanger Spacing (mm)	Hanger Demand (kN)
0.59	0.25	TCR25	900	910	1.20	990	1.19
			1050	850	1.30	920	1.29
			1200	790	1.39	860	1.38
		TCR38	900	1090	1.43	1180	1.42
			1050	1010	1.55	1090	1.53
			1200	950	1.67	1020	1.64
0.71	0.3	TCR25	900	850	1.29	920	1.28
			1050	790	1.40	850	1.38
			1200	740	1.50	800	1.48
		TCR38	900	1020	1.55	1100	1.53
			1050	940	1.66	1020	1.65
			1200	860	1.74	950	1.76
0.83	0.35	TCR25	900	800	1.38	860	1.35
			1050	740	1.49	800	1.47
			1200	690	1.58	750	1.57
		TCR38	900	960	1.65	1030	1.62
			1050	870	1.75	950	1.74
			1200	760	1.74	830	1.74

1. Table based upon downward (suction) and upward (uplift) pressures, intended for internal use only. Down-struts are required for uplift.
2. Table includes self weight and 1 kg/m^2 insulation weight with an additional 3 kg/m^2 service load. No further allowance for additional point loads or live loads.
3. Downstruts must be installed for TCR suspended ceilings in all buildings except air-conditioned hospitals, offices and shopping centres that are effectively sealed where the external walls have non-opening windows.
4. Contact Siniat or a structural engineer to check ceiling for earthquake actions. Specific project information is required.
5. Table refers to Siniat Furring Channels of 0.42mm Base Metal Thickness (BMT) of grade G550 steel and Siniat Top Cross Rails of 0.75mm BMT of grade G300, both with Zincalume™ AM150 corrosion protection. Maximum production lengths available are 6.0m
6. Furring Channels checked for 2-or-more spans only. If required, contact Siniat for Single Span furring channel check.
7. Designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures* and *AS/NZS 2785:2000 Suspended Ceilings - Design and Installation*.
8. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions*.
9. Connections to clips must be checked with the *Clip Capacity Table* in Section 5.1.
10. Ultimate Limit State Load Case 1: 1.2G + Wu (Suction) + $Q_{0.03kPa\ Service\ Load}$
    Ultimate Limit State Load Case 2: 0.9G + Wu (Uplift).
11. Serviceability Limit State Load Case 1: G, with deflection limited to Span/500.
12. Serviceability Limit State Load Case 2: G + Ws, with deflection limited to Span/200.
13. Perimeter anchors at 600mm maximum centres and 100mm maximum from track ends with minimum 0.7 kN shear capacity.
14. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.
15. For BCA Building Importance Level 4, please contact Siniat.

Concrete Soffit Anchor Table

Concrete Grade	C1 Anchor
20 - 25 MPa	SA6x60
≥32MPa	SA6x45

Concrete Grade	C2 Anchor
≥ 20 MPa	SXTB08055

1. No edge / spacing effects.

Downstrut

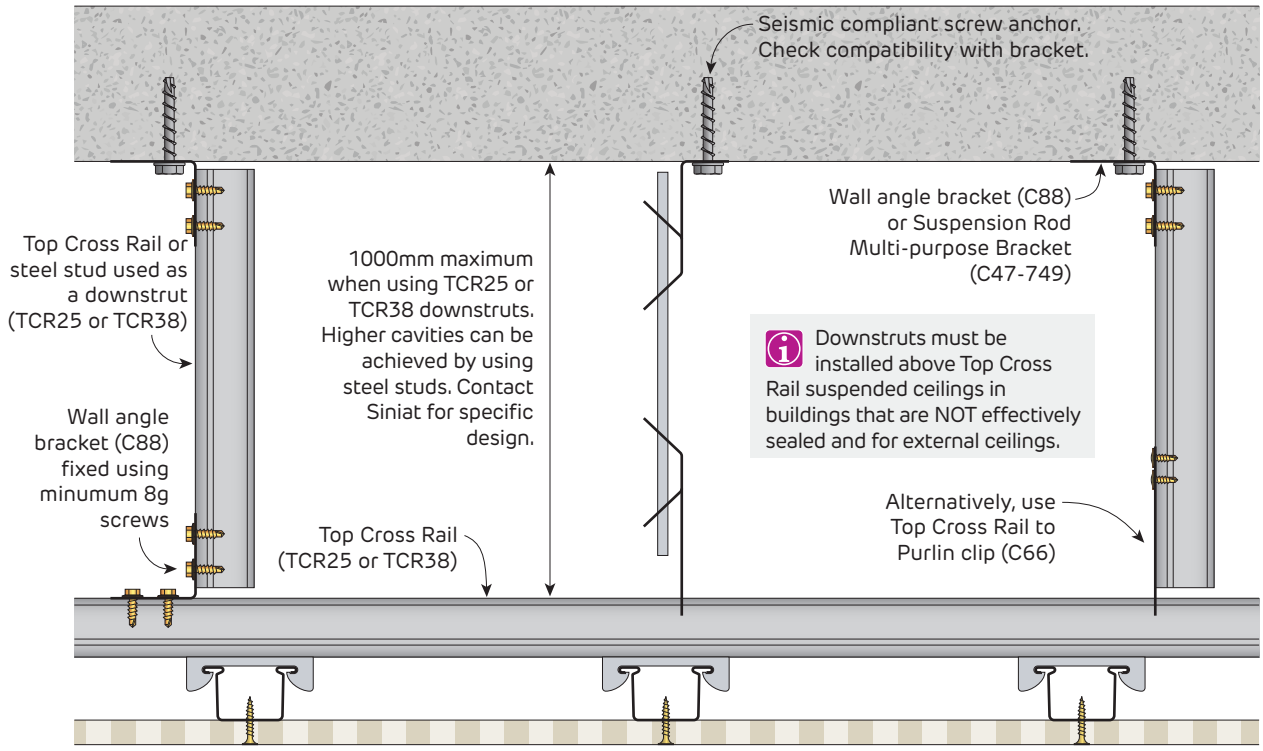
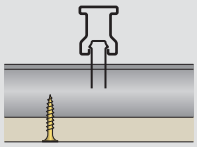


FIGURE 12 Downstrut
Section

Table 4 Downstrut Table - WIND REGION A

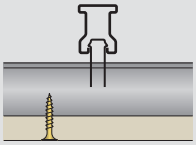
Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Downstrut Interval Table (along Top Cross Rail) Suspended ceiling lined with Createx and 28mm Furring channels (AFC28) at 400mm maximum spacing					Up to BCA Building Importance Level 3
Ultimate Wind Pressure W_U (kPa)	**Serviceability Wind Pressure W_S (kPa)**	**Top Cross Rail**	**Top Cross Rail Spacing (mm)**	**Double Span** Maximum Downstrut Intervals (mm)	**3 or more Spans** Maximum Downstrut Intervals (mm)
0.39	0.25	TCR25	900	1570	1670
			1050	1470	1570
			1200	1400	1490
		TCR38	900	1960	2070
			1050	1860	1960
			1200	1780	1870
0.47	0.3	TCR25	900	1430	1530
			1050	1340	1430
			1200	1260	1350
		TCR38	900	1820	1920
			1050	1720	1780
			1200	1630	1670
0.54	0.35	TCR25	900	1330	1430
			1050	1250	1330
			1200	1180	1260
		TCR38	900	1330	1770
			1050	1250	1640
			1200	1180	1540

1. Downstruts must be installed for TCR suspended ceilings in all buildings except air-conditioned hospitals, offices and shopping centres that are effectively sealed where the external walls have non-opening windows.

Table 5 Downstrut Table - WIND REGION B

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Downstrut Interval Table (along Top Cross Rail) Suspended ceiling lined with Createx and 28mm Furring channels (AFC28) at 400mm maximum spacing					Up to BCA Building Importance Level 3
Ultimate Wind Pressure W_U (kPa)	**Serviceability Wind Pressure W_S (kPa)**	**Top Cross Rail**	**Top Cross Rail Spacing (mm)**	**Double Span** Maximum Downstrut Intervals (mm)	**3 or more Spans** Maximum Downstrut Intervals (mm)
0.59	0.25	TCR25	900	1280	1360
			1050	1190	1280
			1200	1120	1200
		TCR38	900	1650	1690
			1050	1550	1560
			1200	1470	1460
0.71	0.3	TCR25	900	1160	1100
			1050	1090	1160
			1200	1020	1100
		TCR38	900	1520	1520
			1050	1410	1400
			1200	1230	1310
0.83	0.35	TCR25	900	1080	1150
			1050	1000	1080
			1200	930	1010
		TCR38	900	1380	1390
			1050	1180	1290
			1200	1030	1130

1. Downstruts must be installed for TCR suspended ceilings in all buildings except air-conditioned hospitals, offices and shopping centres that are effectively sealed where the external walls have non-opening windows.

Access Panel

Mark out the opening in the createx perforated plasterboard using the chameleon access **panel** frame. Carefully cut-out the createx piece and insert into the chameleon access **panel**.
If any furring channel is cut, reinforce the opening with extra furring channel. Refer to Figure 14 and 15.
Leave a 30mm to 50mm area around the perimeter of the opening to allow for the access panel frame. Refer to Figure 13.
Fix the createx sheet to the access panel's aluminium frame as shown in Figure 13.

Non-Fire Rated
Createx Ceiling Access Panel

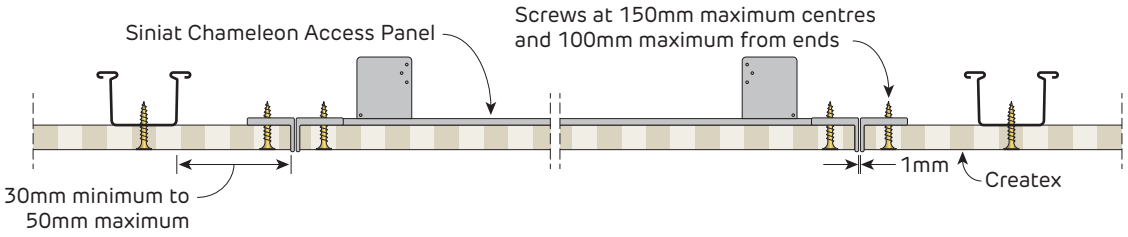


FIGURE 13 Siniat Chameleon Access Panel
Section

Table 6 Chameleon Access Panel Compatibility

Createx Pattern	600x600mm Chameleon Access Panel Compatibility
R8/18	Yes
R12/25	Yes
C12/25	Yes
D8-12	Yes
Space S8-15-20	Yes but some perforations may need to be filled

Siniat Chameleon Access Panel Installation

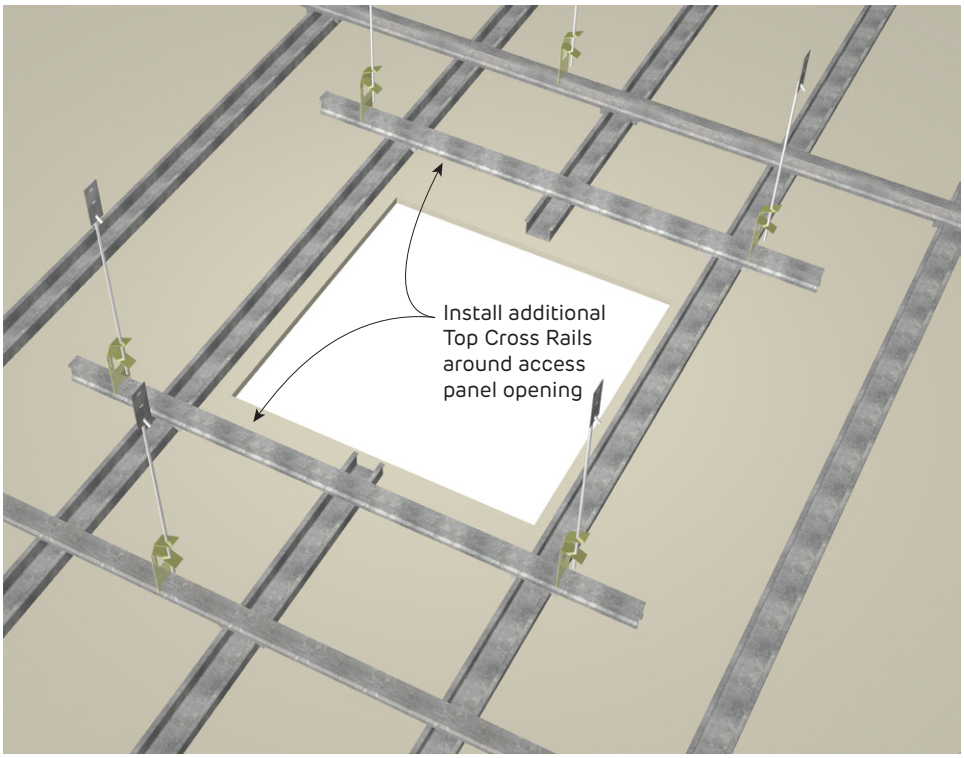


FIGURE 14 Createx Access Panel Framing
Perspective

FIGURE 15 Createx Access Panel Framing
Perspective

Layout

Start sheeting from the centre of the room.
Install createx ceilings perpendicular to framing members.
Fix short edges on a Wide-face Furring Channel (F60/28).
Install one entire row in each direction before proceeding. Refer to Figure 16.

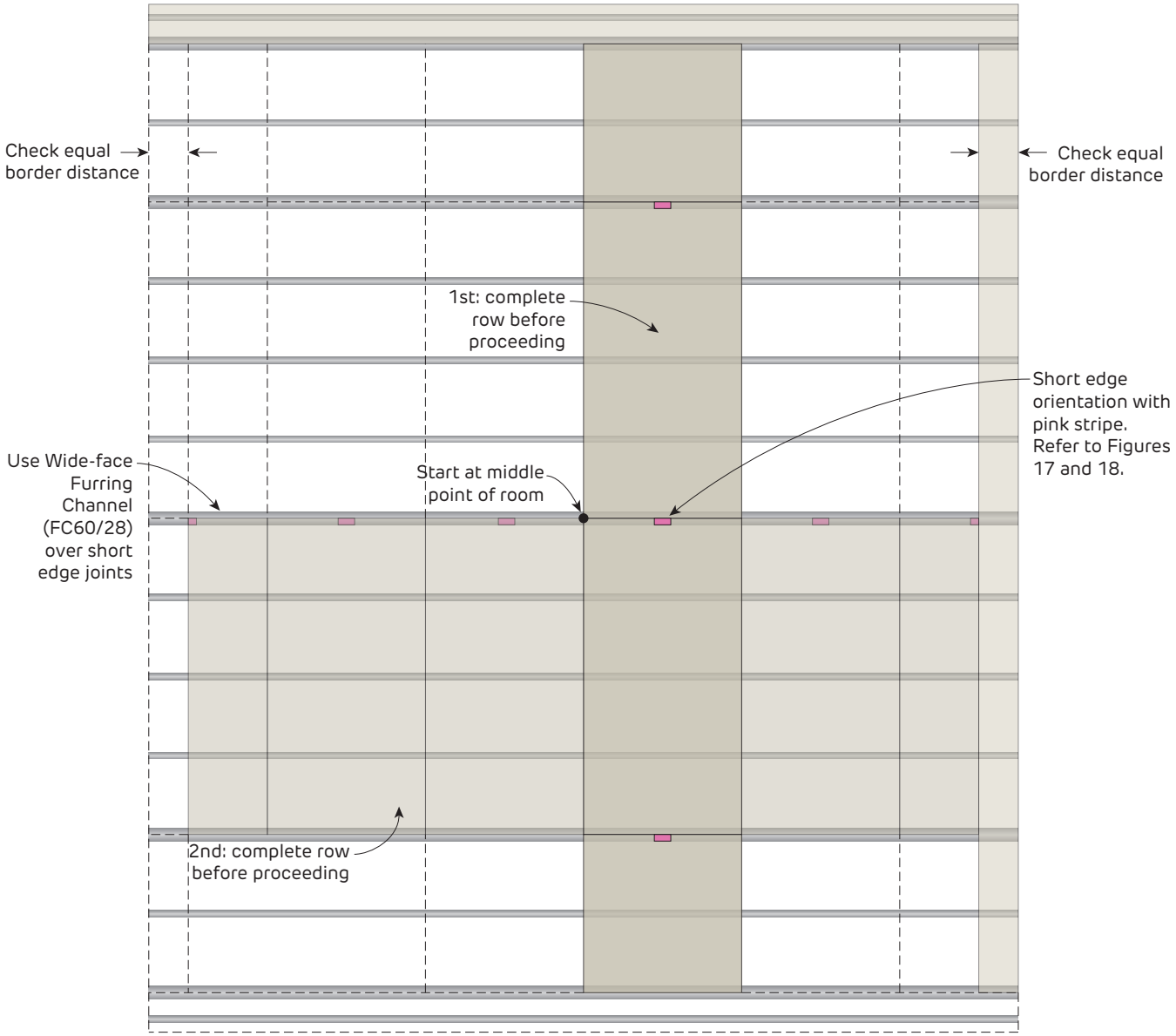


FIGURE 16 Ceiling Layout
Plan

Sheet Orientation Along Short Edges

Align the short edges of createx sheets so that the pink paint stripe does not coincide with each other. Refer to Figure 17 for the correct orientation.

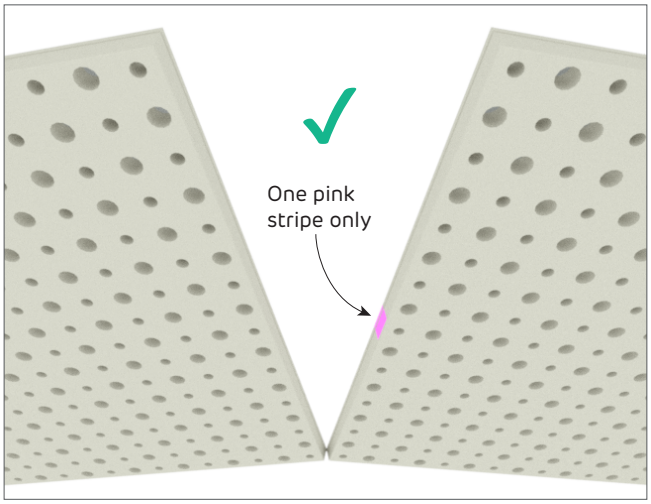


FIGURE 17 Correct Short Edge Orientation
Perspective

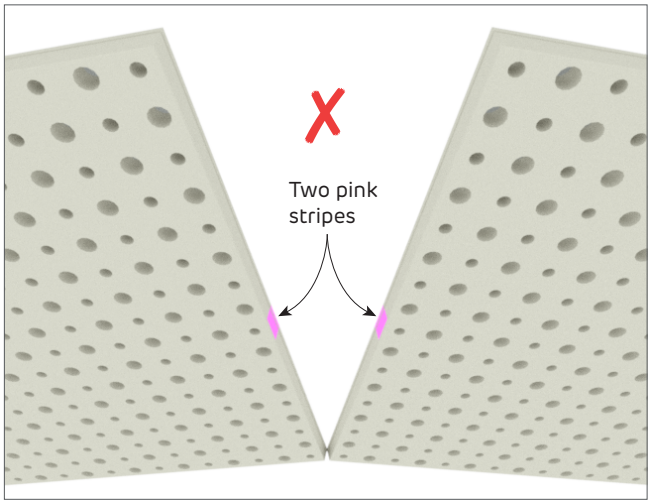


FIGURE 18 Incorrect Short Edge Orientation
Perspective

Perforation Alignment

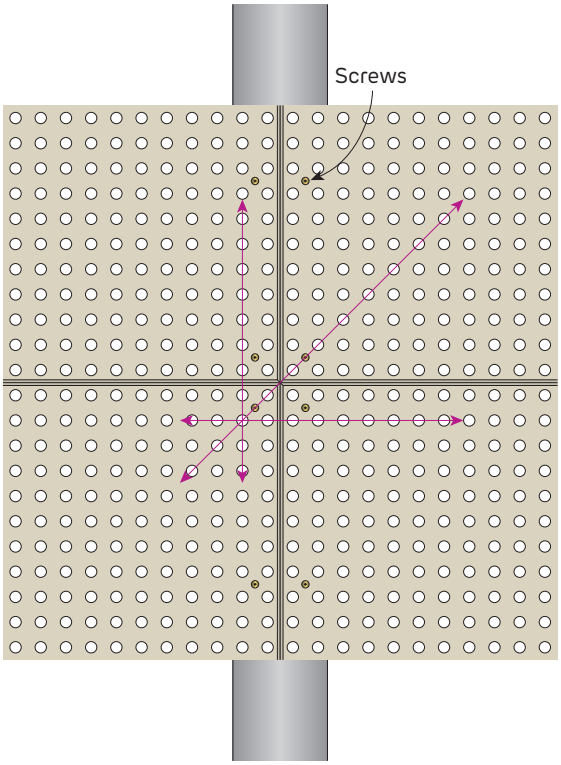


FIGURE 19 Perforation Alignment
Plan

Fixing

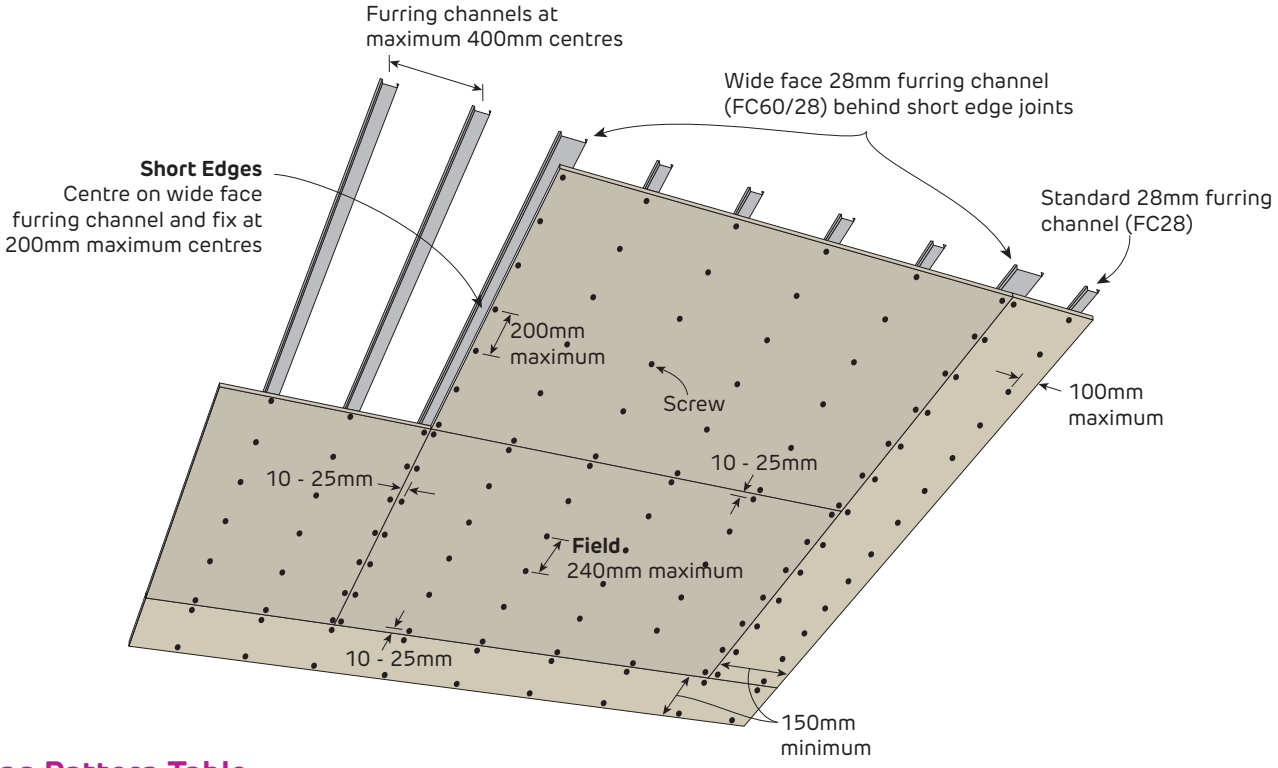
Use the 'Screw Only Method'. Adhesive is not permitted.
Drive screws to just below the sheet surface, taking care not to break the paper linerboard. For over-driven screws, install another screw 20mm away. Leave or remove the over-driven screw and patch.
Press createx firmly on to the grid when screwing.
Start fastening from the corner, where the plasterboard meets previously attached boards.
Fasten long edge first and then short edges.
Use a straight edge across adjoining sheets to check both sheets are level across the joints. If necessary, adjust the level of the sheets by unscrewing perimeter screws slightly, so both sheets are level across joints.

Screw Type and Minimum Size for the Installation of Plasterboard to Steel

Plasterboard Thickness	1st Layer
12.5mm	6g x 25mm screw

For steel ≤ 0.75mm BMT, use fine thread needle point screws.
For steel ≥ 0.75mm BMT, use fine thread drill point screws.

FIGURE 20 Createx Internal Ceiling - 1 Layer
Screw Only Method



Fixing Pattern Table

Sheet Width	Location	Screw Fixing Pattern
1200mm	Field	S S S S S S (6)
	Short edges (butt joints)	S S S S S S S (7)

S = One screw

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Ceiling Frame Spacing	
	400mm	300mm
12.5mm	1.50	2.05

1. Calculations do not include the framing which must be independently designed to suit the desired load.
2. Calculations include a ceiling insulation with maximum weight of 1.05 kg/m^2 (equivalent to Pink® Partition 75mm 14kg/m^3 R1.9 Batts).
3. Calcuated over 3-or-more spans.
4. If higher internal wind pressures are expected, please contact Siniat for specific design.

Finishing

Jointing

Jointing must not be conducted until all ceiling services and access panels are installed in the ceiling, otherwise the excessive vibration may cause joint cracking or peaking.
Use a wet brush to clean dust from joints after fixing the boards.
Prime site cut edges with a PVA based primer (ie: one part Bondcrete to four parts water). For improved jointing compound adhesion, factory V edge joints can also be primed.
Slightly overfill joints with Siniat **set** jointing compound. It is recommended to use a sausage caulking gun to apply the jointing compound. When it has partially set (approximately 1 hour depending on weather conditions), then scrape off excess jointing compound to level the joint. Refer to Figure 21.
Use masta**lite**, masta**glide**, or masta**line** for finishing joints and screw heads. For more information refer to Section 7.3.
Do not obstruct perforations during jointing.

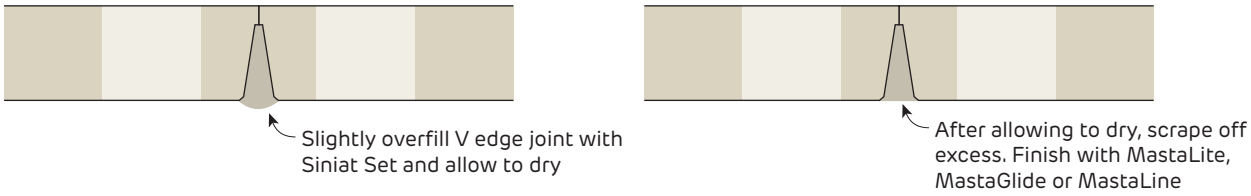


FIGURE 21 V Edge Jointing
Section

Sanding

Sanding is a critical part of achieving a high quality finish. Care should be taken when sanding joints to achieve a smooth surface.
Lightly sand to a smooth even surface using 180 to 220 grit sandpaper or sanding mesh. Care must be taken to not scuff the paper linerboard especially around perforations while sanding.

Painting

A three coat paint system must be applied in accordance with Australian Standard *AS/NZS 2311, Guide to the painting of buildings*. Both the quality of the paint and how it is applied have a large effect on the finished appearance of the crea**tex** plasterboard.
Apply the paint with a short napped roller and avoid the application of excess paint at any time.

> Only use a roller application for painting. Roller application applies a uniform texture over the entire surface and ensures the paint does not fill the perforations or contact the acoustic felt on the back of the plasterboard.

> Spray painting is not permitted.

> For more information on finishing plasterboard refer to Section 7.

Non-Fire Rated
Createx Joints

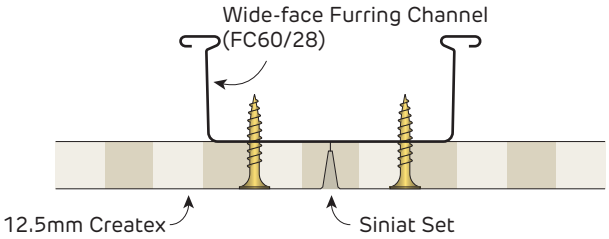


FIGURE 22 Createx with V Joint
Using Wide-face Furring Channel
Section

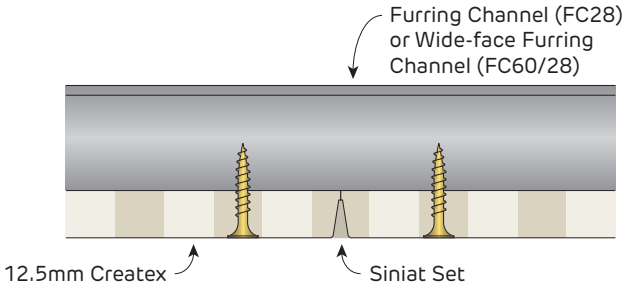


FIGURE 23 Createx with V Joint
Elevation

If necessary, use packers to ensure easy jointing of 12.5mm Createx with 13mm Mastashield

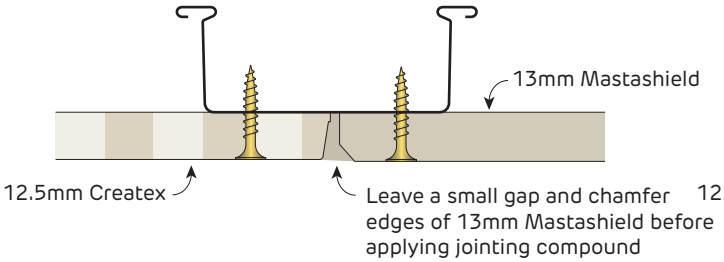


FIGURE 24 Createx to ceiling border
Using Wide-face Furring Channel
Section

Prime any cut edges of Createx and plasterboard with PVA based primer when Siniat Set is used for jointing

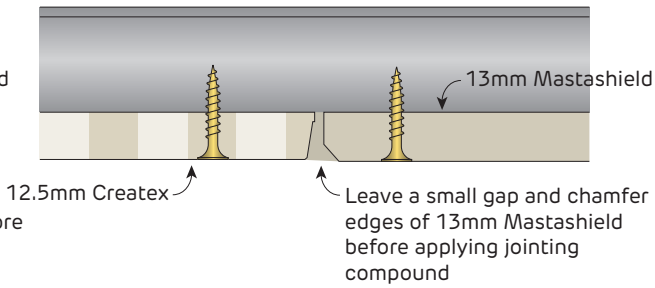


FIGURE 25 Createx to ceiling border
Elevation

Control Joints

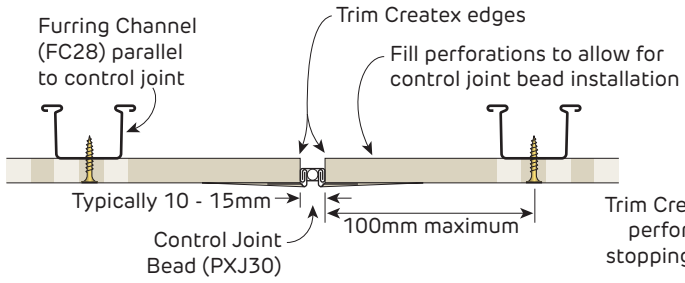


FIGURE 26 Control Joint - Control Joint Bead
Parallel to furring channel
Section

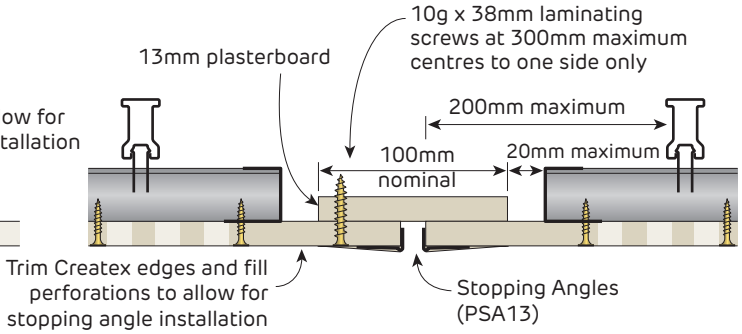


FIGURE 27 Control Joint - Stopping Angles
Perpendicular to furring channel
Section

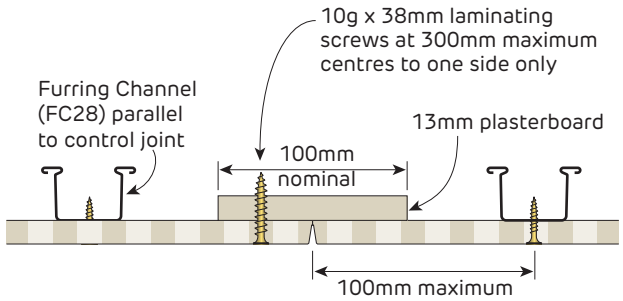


FIGURE 28 Control Joint - Bare V Edges
Parallel to furring channel
Section

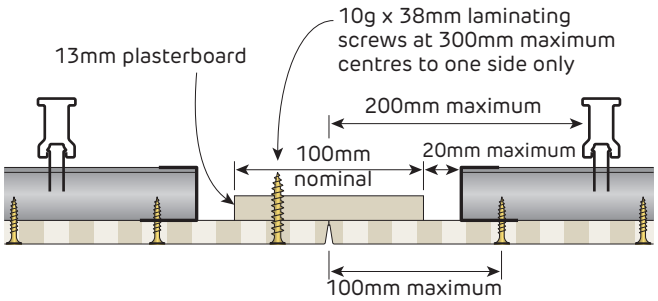


FIGURE 29 Control Joint - Bare V Edges
Perpendicular to furring channel
Section

Non-Fire Rated
Createx Perimeter Details

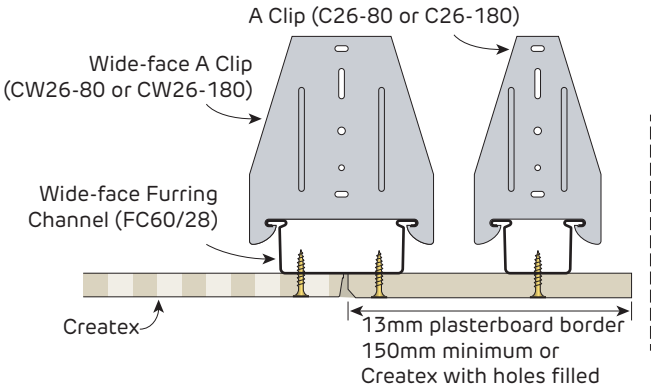


FIGURE 30 Perimeter Detail - Border
Createx Direct Fix Ceiling Frame
Section

The recommended ceiling border detail is to continue the Createx to the wall and fill holes with Siniat Set and then MastaLite as a finishing coat

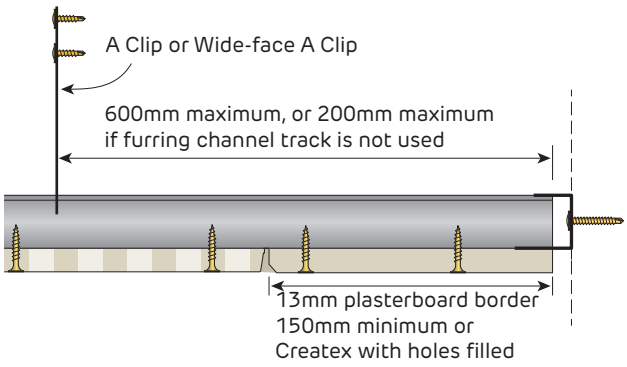


FIGURE 31 Perimeter Detail - Border
Createx Direct Fix Ceiling Frame
Section

If necessary, use packers to ensure easy jointing of 12.5mm Createx with 13mm Mastashield

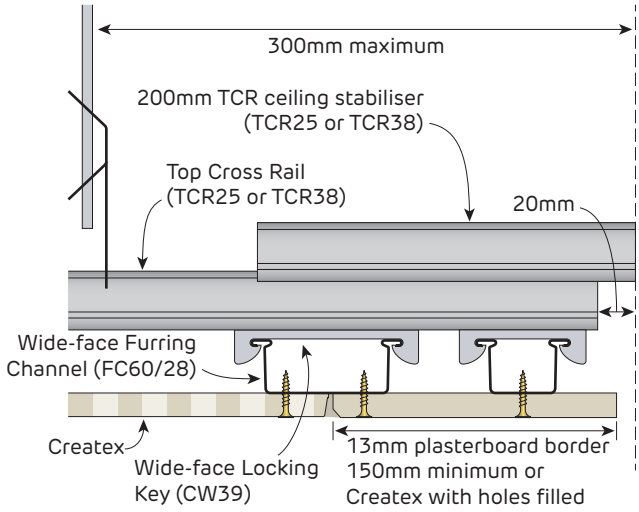


FIGURE 32 Perimeter Detail - Border
Createx Suspended Ceiling Frame
Section

Prime any cut edges of Createx and plasterboard with PVA based primer when Siniat Set is used for jointing

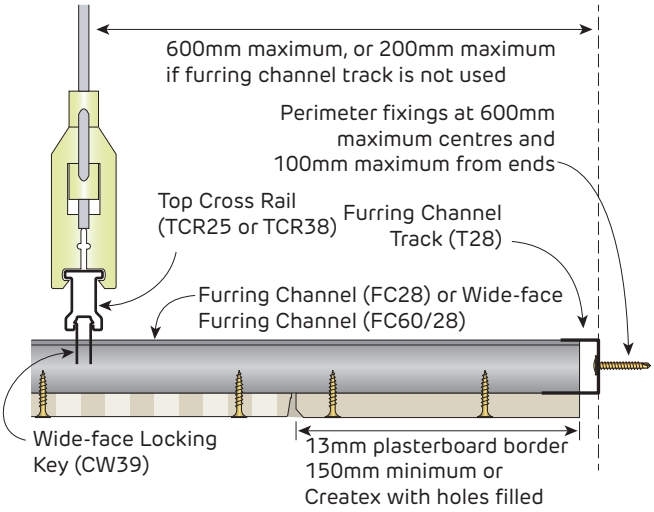


FIGURE 33 Perimeter Detail - Border
Createx Suspended Ceiling Frame
Section

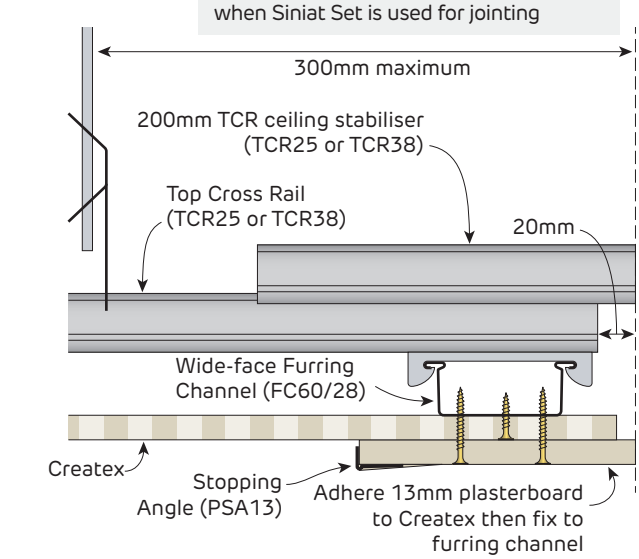


FIGURE 34 Perimeter Detail - Proud Border
Createx Suspended Ceiling Frame
Section

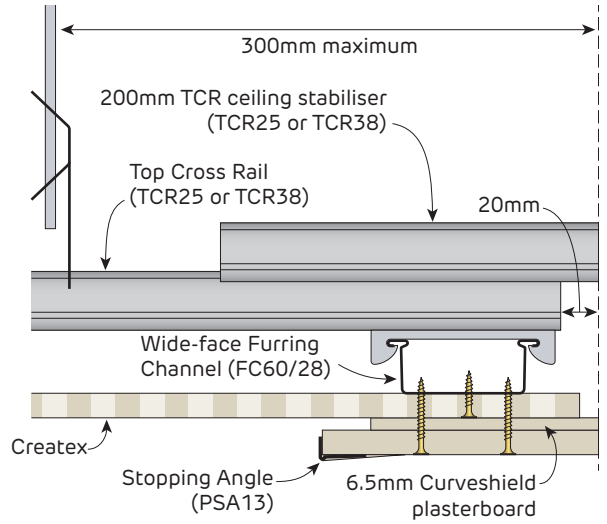


FIGURE 35 Perimeter Detail - Proud Shadow Border
Createx Suspended Ceiling Frame
Section

Non-Fire Rated
Ceiling Perimeter Finishing Details

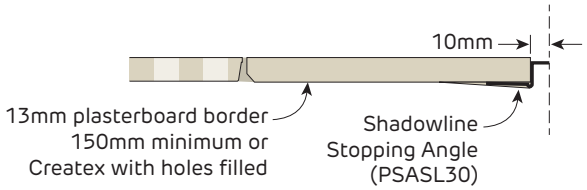


FIGURE 36 Finishing Detail - Shadowline
Section

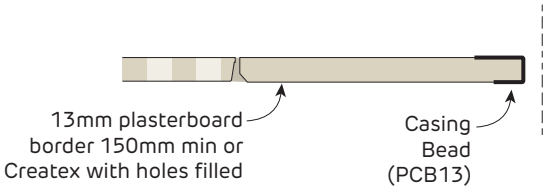


FIGURE 37 Finishing Detail - Casing Bead
Section

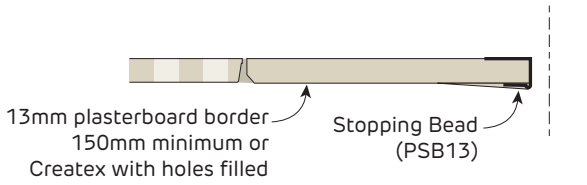


FIGURE 38 Finishing Detail - Stopping Bead
Section

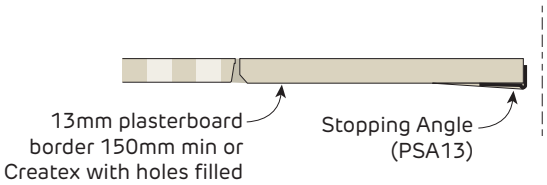


FIGURE 39 Finishing Detail - Stopping Angle
Section

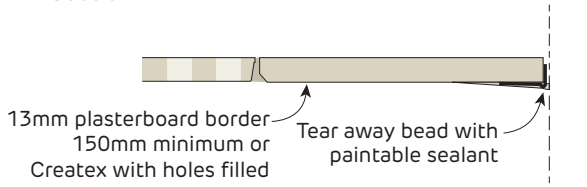


FIGURE 40 Finishing Detail - Tear Away Bead
Section

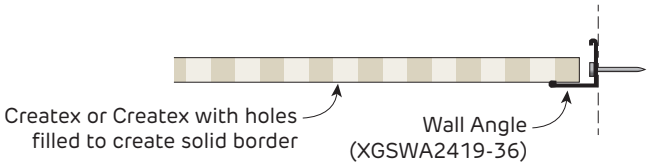


FIGURE 41 Finishing Detail - Wall Angle
Section

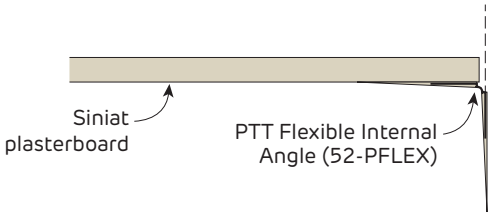


FIGURE 42 Finishing Detail - Flexible Square Set
Section

Ceilings using a square set finishing detail have low tolerance for building movement and are more prone to cracking and joint peaking

Some damage to ceiling linings for finishing details with low tolerance to movement can be expected in a Serviceability Earthquake event