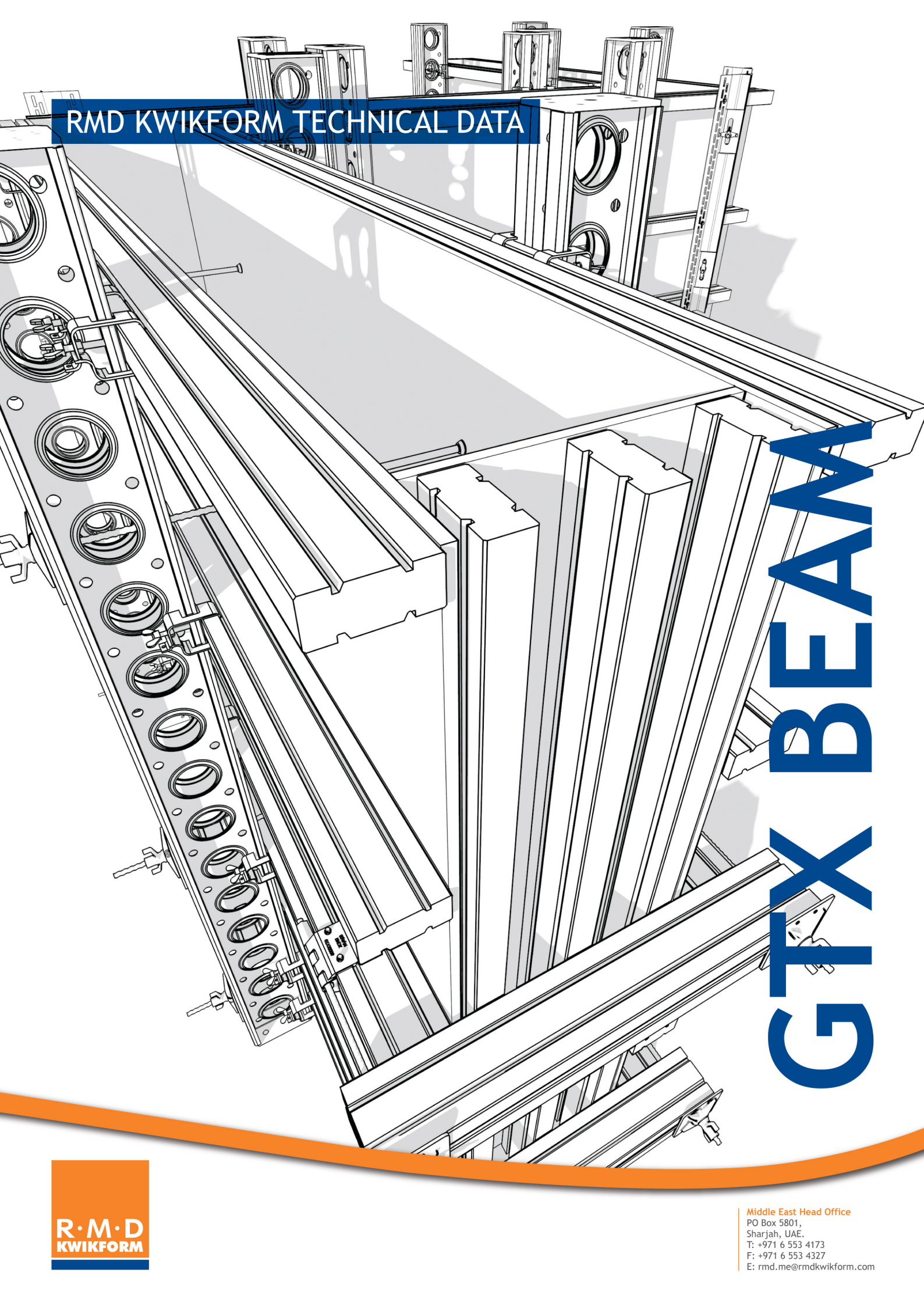




RMD KWIKFORM TECHNICAL DATA

GTX BEAM

R·M·D
KWIKFORM

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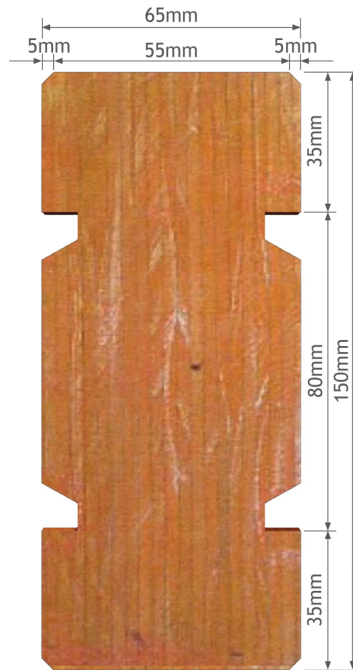
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COMPONENTS REFERENCE GUIDE

CODE	DESCRIPTION	WEIGHT (kg)	SHEET
GTX10001	GTX TO SOLDIER CLAMP - EYE BOLT	0.58	4
GTM11200	GTX BEAM - 1200mm	6.6	4
GTX11800	GTX BEAM - 1800mm	9.9	4
GTM12100	GTX BEAM - 2100mm	11.55	4
GTX12400	GTX BEAM - 2400mm	13.2	4
GTM12700	GTX BEAM - 2700mm	14.85	4
GTX13000	GTX BEAM - 3000mm	16.5	4
GTM13300	GTX BEAM - 3300mm	18.15	4
GTX13600	GTX BEAM - 3600mm	19.8	4
GTX14200	GTX BEAM - 4200mm	23.1	4
GTX14800	GTX BEAM - 4800mm	26.4	4
GTX15400	GTX BEAM - 5400mm	29.7	4
GTX16000	GTX BEAM - 6000mm (Actual length = 5950mm)	33.0	4
GTM20001	GTX CLAMP HOLDER	0.57	4
GTM20002	GTX SPANNER	0.35	4
GTX10007	GTX RESTRAINT STRAP	0.45	5
BNX00008	TURBO COACH SCREW	0.013	5
GTM00005	GTX CLEAT	0.2	5
GTM00007	GTX TO ALBEAM CONNECTION	0.5	5
GTM00010	GTX CLEAT D/H NAIL 3x35mm	0.013	5
AFX20010	ALFORM CORNER STRAP	6.18	6
GTX10006	GTX RESTRAINT UNIT ASSEMBLY	0.67	6
GTM00009	GTX CORNER SOLDIER CLAMP	2.4	6
GTM00008	GTX OUTSIDE CORNER 1200mm	14.26	7
GTM00004	GTX BEAM GUARDRAIL POST	8.5	7
GTM00011	GTX LIFTING UNIT	1.9	7
AFA10025	ALFORM BEAM HANDRAIL POST	9.9	7
BTX10001	RAPIDTIE KNOCK ON WING NUT (15mm)	0.36	8
BTX10004	RAPIDTIE HD WALER PLATE	1.76	8
BTX10017	RAPIDTIE HEXAGON NUT	0.16	9
BTX10015	RAPID BAR TIE CONNECTOR	0.41	9
SSM20900	SUPERSLIM STRIPPING CORNER 900mm	16.5	12
SSM21800	SUPERSLIM STRIPPING CORNER 1800mm	33.0	12
SSM22700	SUPERSLIM STRIPPING CORNER 2700mm	49.0	12
SSM23600	SUPERSLIM STRIPPING CORNER 3600mm	65.0	12
SSM10900	SUPERSLIM CORNER SOLDIER 900mm	21.5	13
SSM11800	SUPERSLIM CORNER SOLDIER 1800mm	43.0	13
SSM12700	SUPERSLIM CORNER SOLDIER 2700mm	64.0	13
SSM13600	SUPERSLIM CORNER SOLDIER 3600mm	85.0	13

GTX BEAM TECHNICAL DATA



INTRODUCTION

The GTX beam is a structural laminated veneer timber beam for use as a primary or secondary bearer in a wide range of formwork and shoring applications. The GTX beam is manufactured using 3mm Radiata Pine veneer, individually graded for stiffness, arranged in a predetermined pattern and phenolically bonded for consistent and predictable engineered performance.

BEAM PROPERTIES

Gross Area	94cm ²
Flexural Rigidity EI	186kNm ²
Maximum Bending Moment xx	6.14kNm
Max Shear Load	25.8kN
Self Weight	5.50kg/m
Overall Depth of Section	150mm
Overall Width of Section	65mm
Minimum Factor of Safety	2
Shear Stiffness, GA	3932kN

Note:

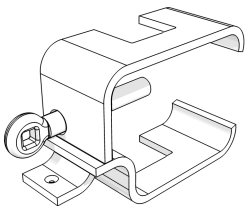
Bearing on the top or bottom faces 6.6N/mm². See sheet 14 for allowable end reactions.

ACCESSORIES

A range of accessories to complement the GTX beam is also available, including clamps for fixing stop ends, external corners of wall shutters and handrail attachments for soffit applications.

GTX TO SOLDER CLAMP - EYE BOLT

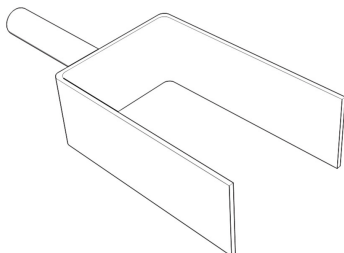
GTX10001
0.58KG



AWL TENSION = 2.0KN
AWL SLIP ALONG GTX = 1.0KN
AWL SLIP ALONG S/S LIM =

GTX CLAMP HOLDER

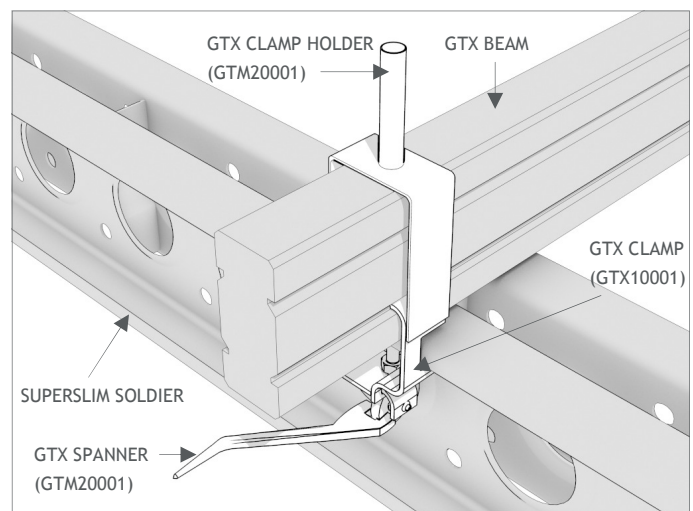
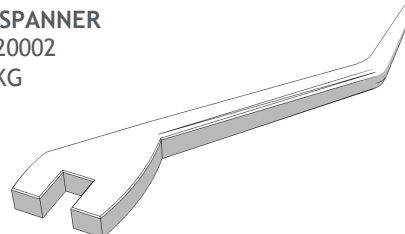
GTM20001
0.57KG



Used to hold clamp in position while tightening.

GTX SPANNER

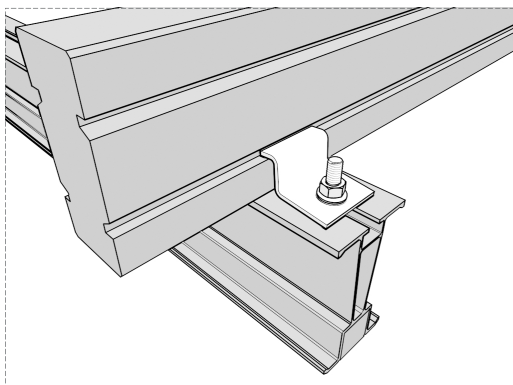
GTM20002
0.35KG



GTX TO ALBEAM CONNECTION

GTM00007

0.5KG



This assembly requires:

1 x GTX to Albeam Connection (GTM00007)

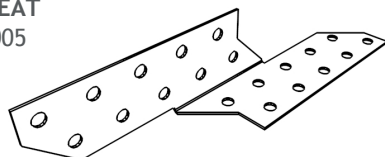
1 x M12 Hex Nut (BNM00012)

1 x M12 Unifix Bolt (AFX20022)

GTX CLEAT

GTM00005

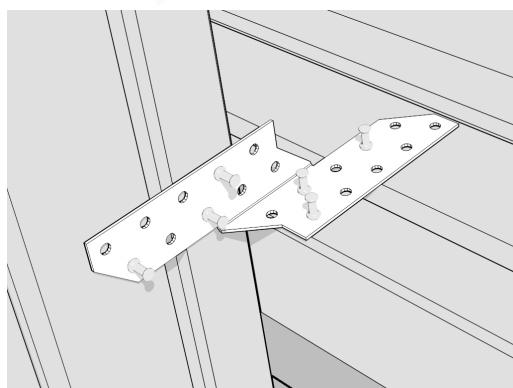
0.2KG



3 X 35mm GTX CLEAT D/H NAIL

GTM00010

0.013KG



This assembly requires:

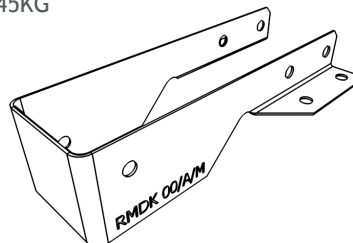
1 x GTX Cleat (GTM00005), Note each box supplied contains 50% left and 50% right handed versions.

6 x GTX Cleat DH Nail (GTM00010)

GTX RESTRAINT STRAP

GTX10007

0.45KG



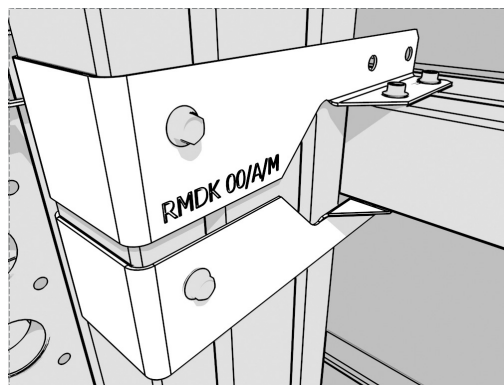
12.5kN AWL in tension per pair as in detail below.
Used to secure vertical GTX members in position.
Fixed using Turbo Coach Screw.



M8 x 50 TURBO COACH SCREW

BNX00008

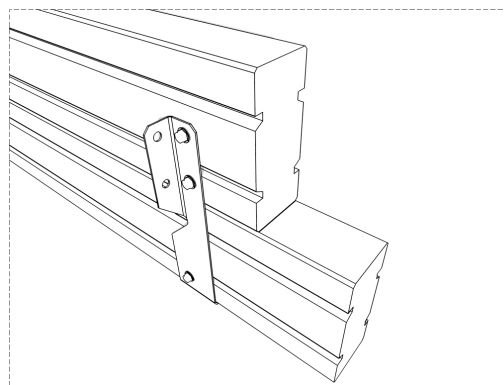
0.013KG



This assembly requires:

2 x Restraint Strap (GTX10007)

12 x Turbo Coach Screw (BNX00008)

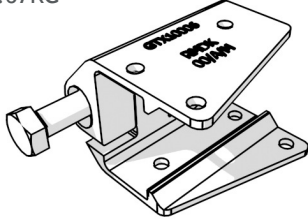


The Restraint Strap can also be used to join two GTX Beams together as shown.

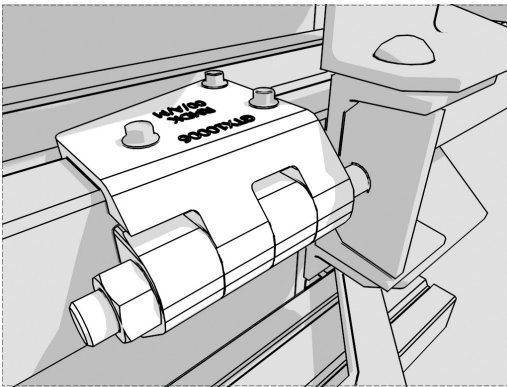
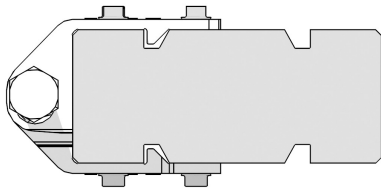
GTX RESTRAINT UNIT ASSEMBLY

GTX10006

0.67KG



Used in pairs to provide a secure fixing for straight joints and corner applications. Position 150mm minimum from beam end. Fixed using Turbo Coach Screws (BNX00008) 6 No. AWL through bolt is 20kN.



This assembly requires:
2 x Restraint Unit (GTX10006)
6 x Turbo Coach Screw (BNX00008)

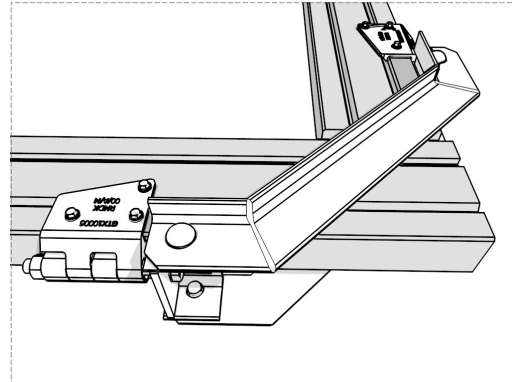
ALFORM CORNER STRAP

AFX20010

6.18KG



AWL 28.28kN in tension.



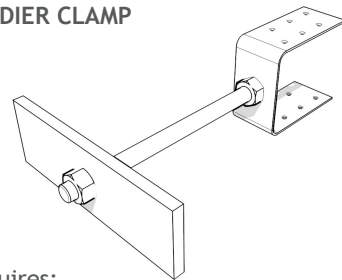
This assembly requires:

4 X Restraint Units (GTX10006)
1 x Alform Corner Strap (AFX20010)
2 x M16 x 150 Gr 8.8 Set Pin (BNM21615)
2 x M16 Hex Nut (BNM00016)
12 x Turbo Coach Screw (BNX00008)

GTX CORNER SOLDIER CLAMP

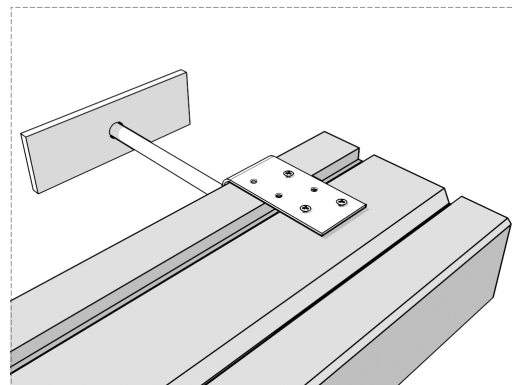
GTM00009

WEIGHT 2.4 KG



This assembly requires:

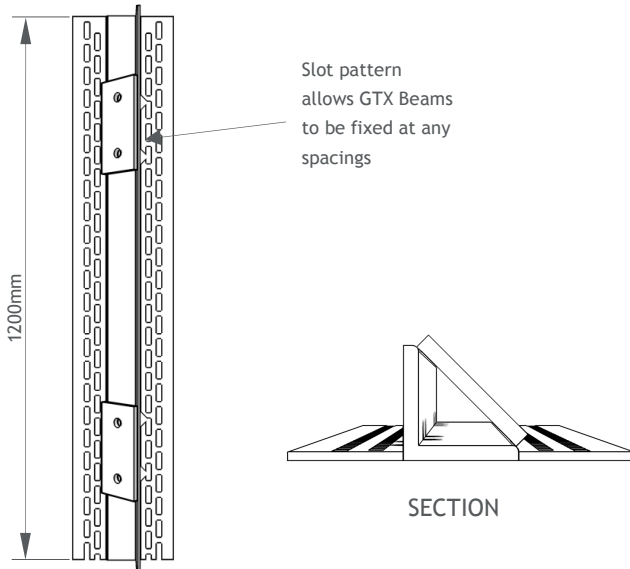
1 X GTX Corner Soldier Clamp (GTM00009)
6 x 4mm x 40mm Countersunk Screw



GTX OUTSIDE CORNER 1200

GTM00008

14.26KG



This assembly requires:

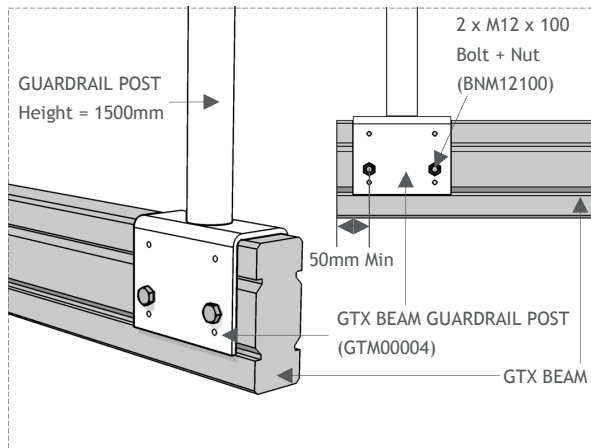
- 2 x GTX Outside Corners (GTM00008)
- 2 X Turbo Coach Screw (BNX00008) Per Beam
- 2 X M10 Washer (BNU10002) Per Beam

- > Minimises the number of corner ties.
- > Eliminates grout leakage in the corner.
- > Able to be fixed for various spacing of GTX beams.
- > Corner ties always placed between the GTX beam.
- > Tie is installed @ 45° to corner.
- > Normal ties to be kept as close to corner as possible.

GTX BEAM GUARDRAIL POST

GTM00004

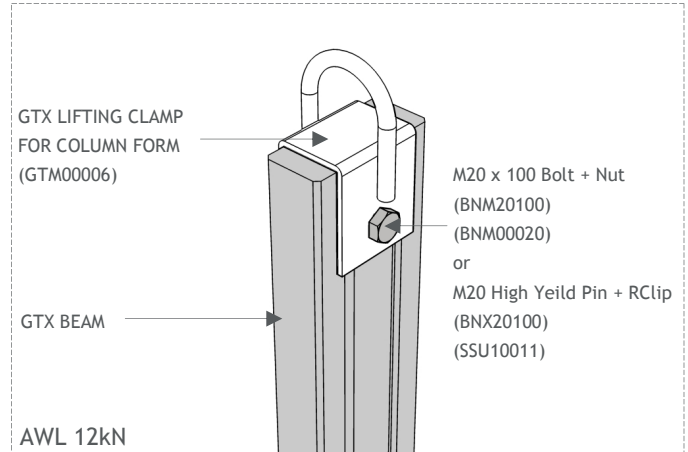
8.5KG



GTX LIFTING UNIT

GTM00011

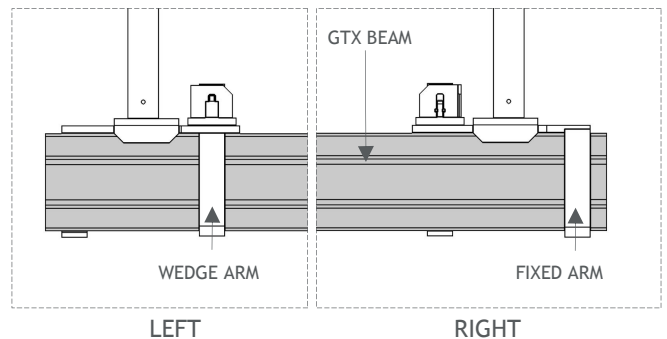
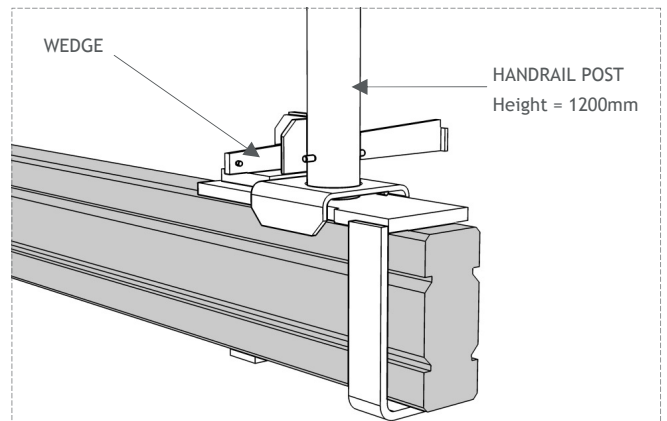
1.9KG



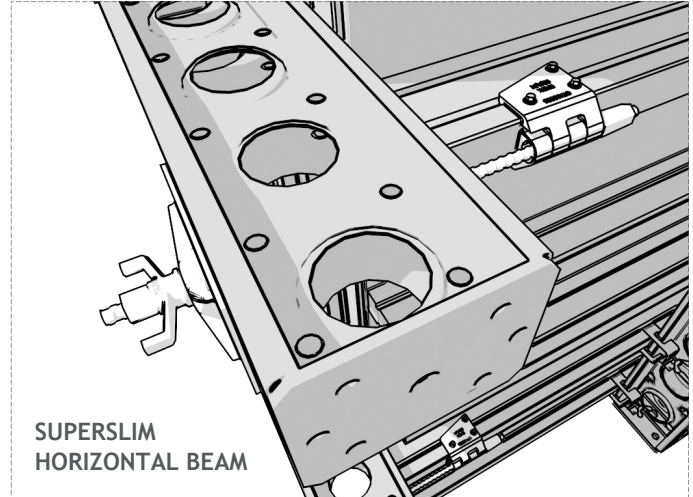
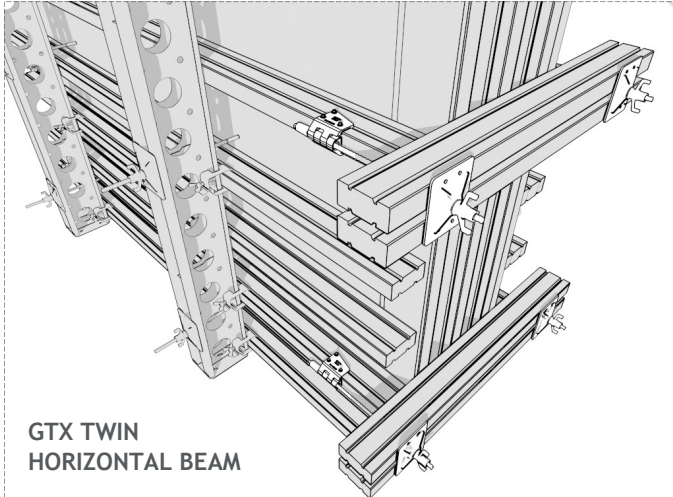
ALFORM BEAM HANDRAIL POST

AFA10025

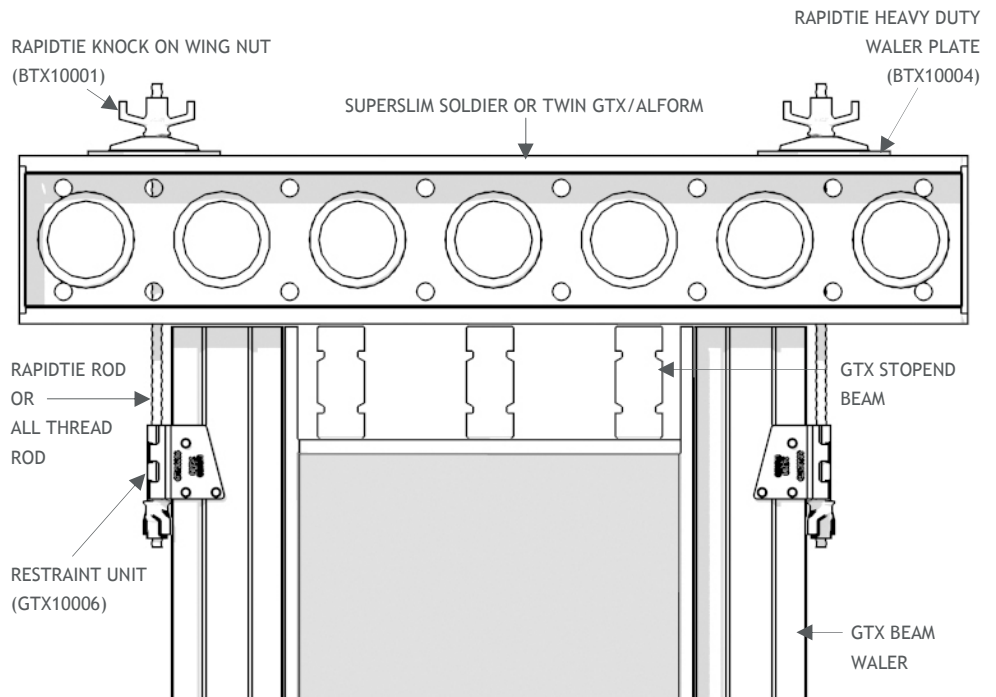
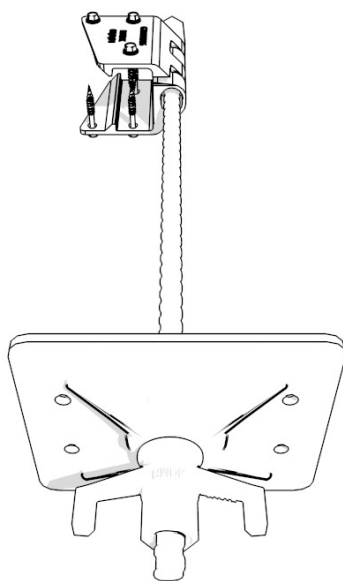
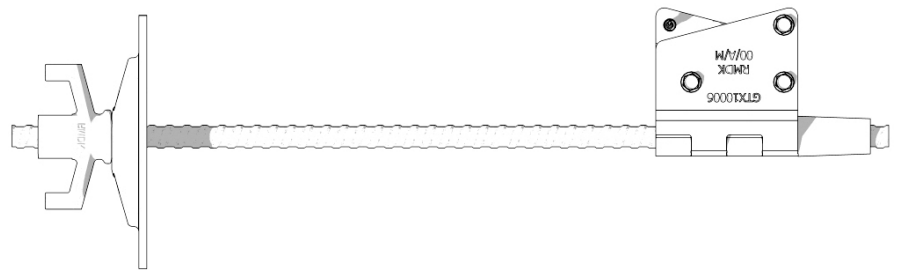
9.9KG



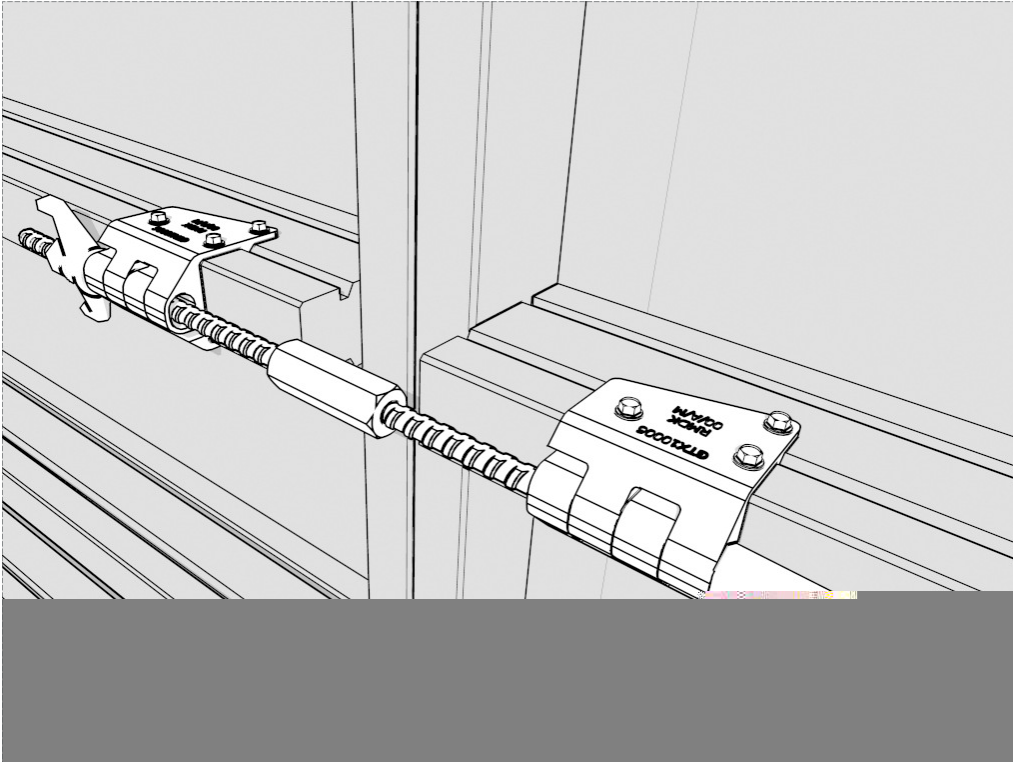
FIXING DETAILS 1: STOP END DETAILS



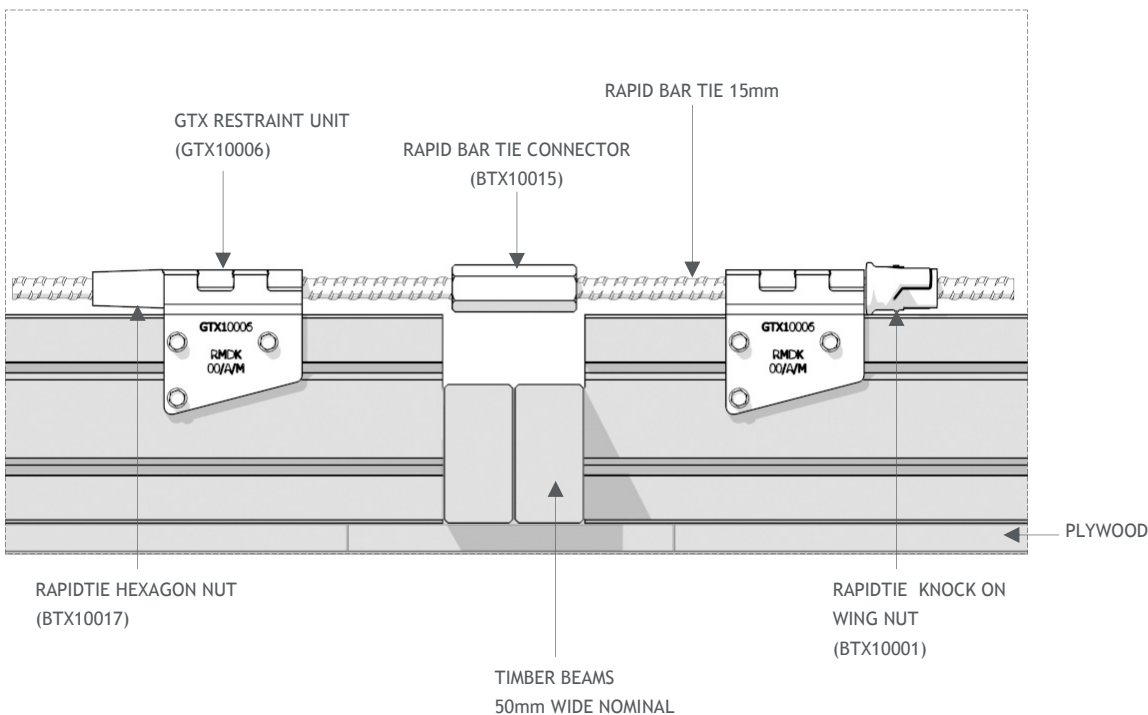
AWL CLAMP = 20KN



FIXING DETAILS 2: METHOD OF HOLDING TWO SHUTTERS TOGETHER (each shutter crane handled separately)



STRAIGHT CONNECTION
Wing Nut used to prevent rotation

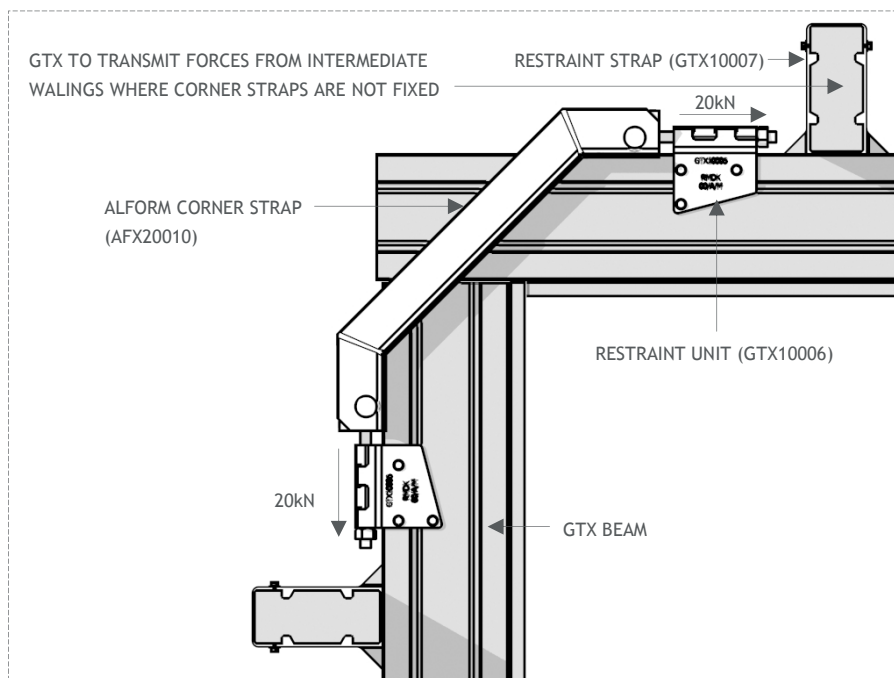
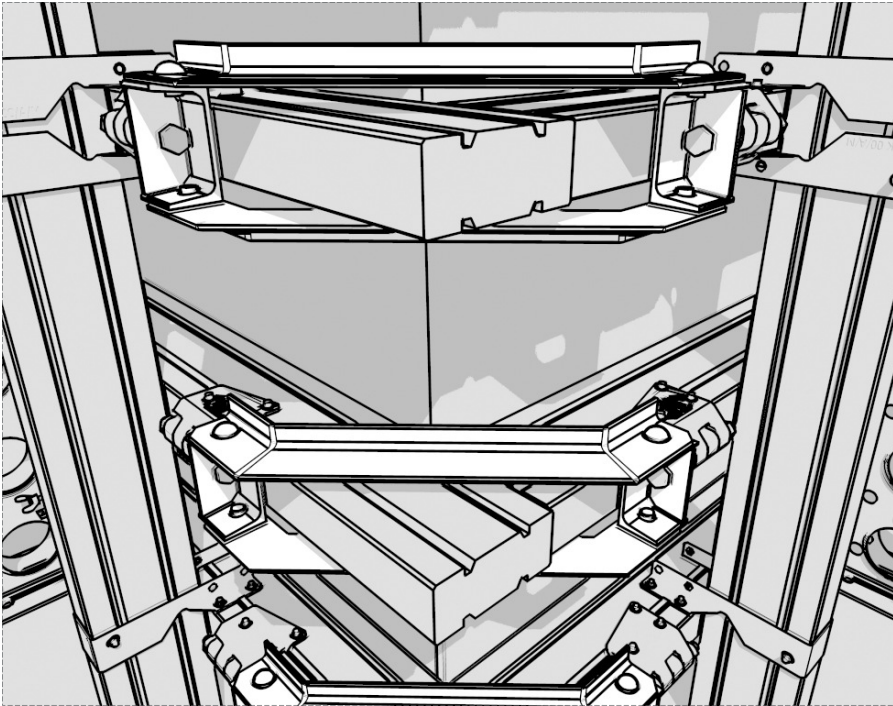


FIXING DETAILS 3: LIGHT DUTY EXTERNAL CORNER

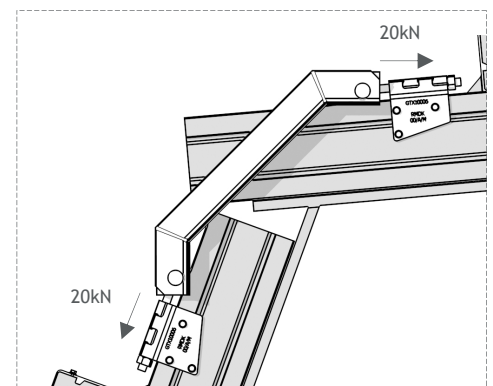
Spacing depends on soldier positions.

Spacings may be increased as concrete pressure reduces towards top of shutter.

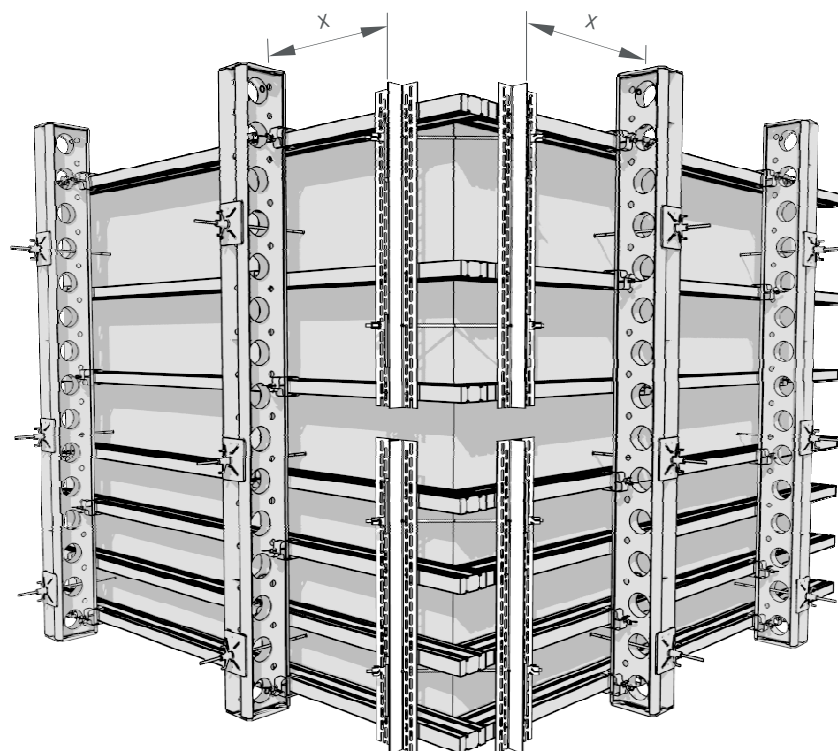
Please note it is recommended that straps are always fitted to the bottom 3 walings.



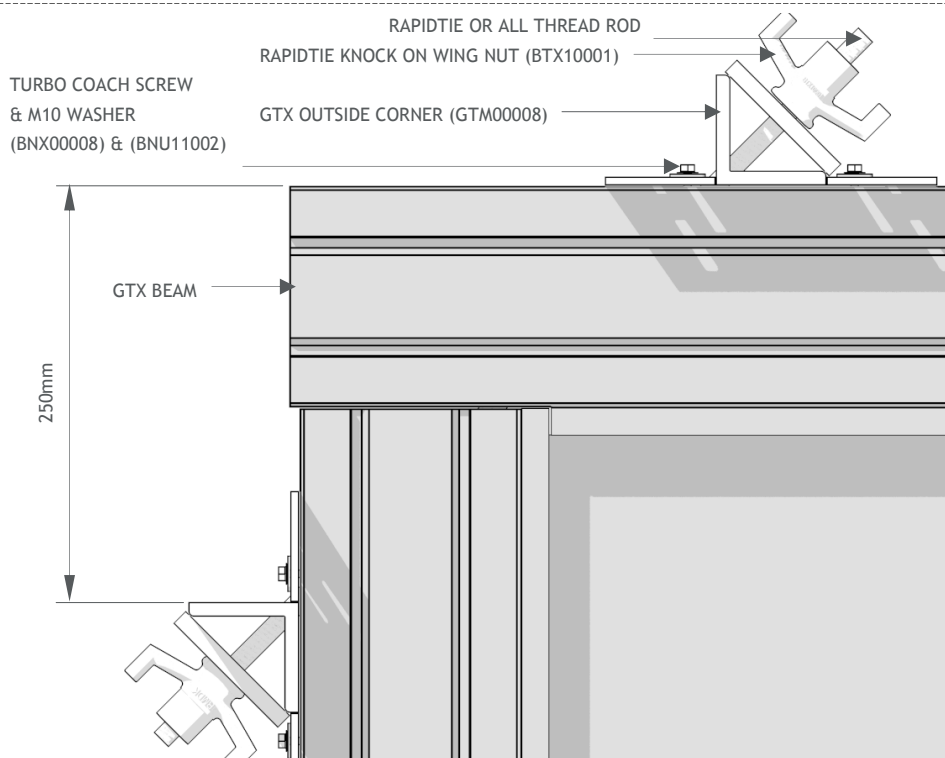
Where external corners are not rectangular, maximum load dependant upon maximum Lok-Clamp load of 20kN.



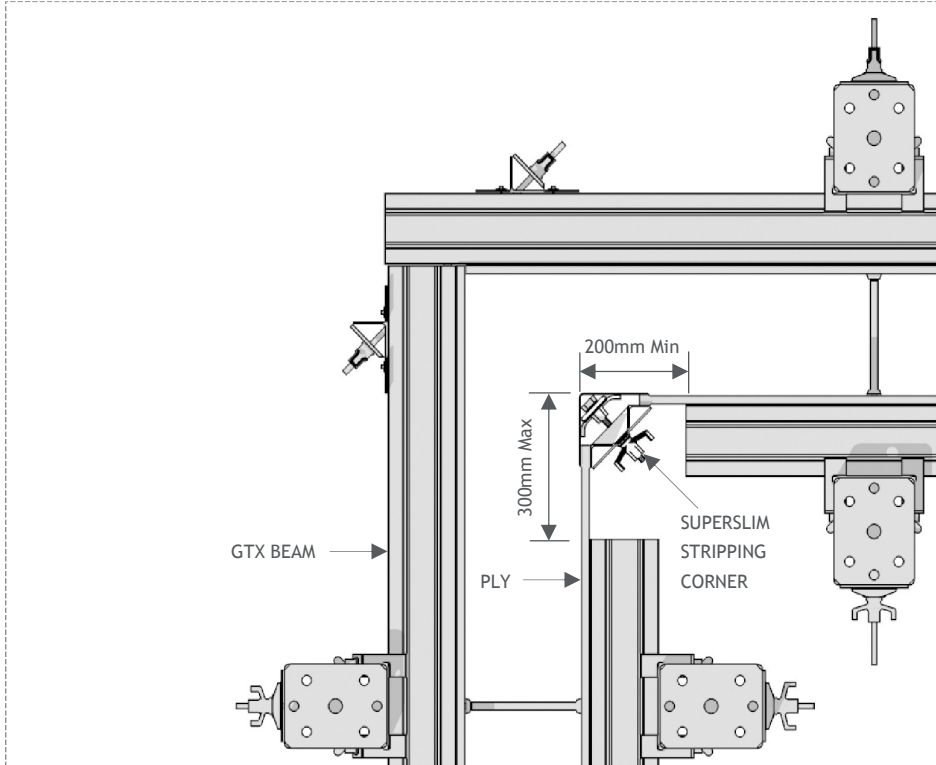
FIXING DETAILS 4: GTX OUTSIDE CORNER



SPACING X	ALLOWABLE CONCRETE PRESSURE
600mm	80 KN/m ²
900mm	55 KN/m ²
1200mm	40 KN/m ²
1500mm	30 KN/m ²

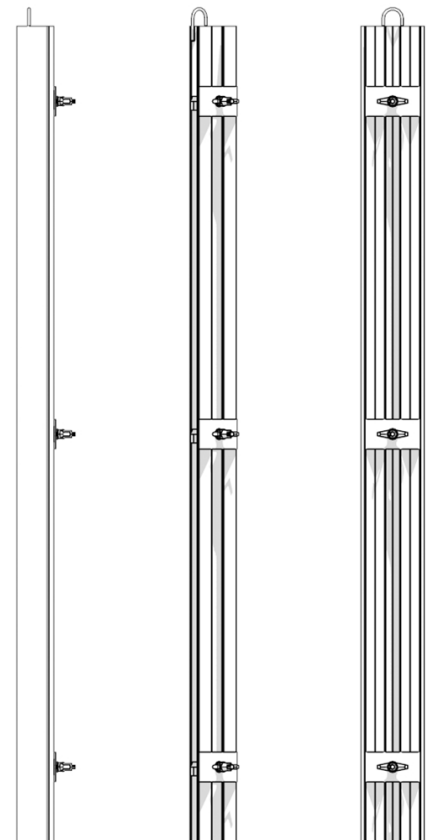
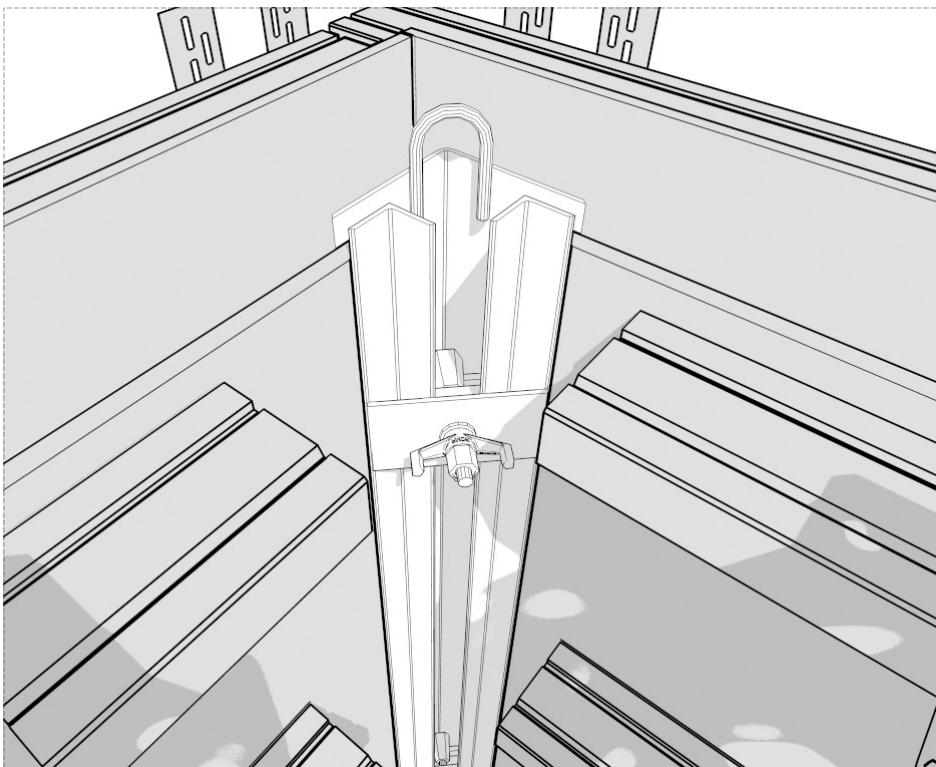
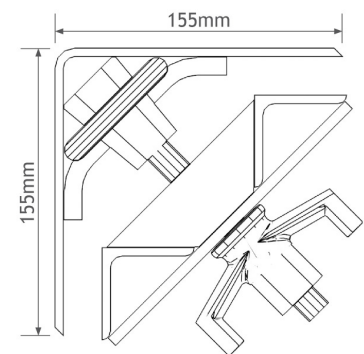


FIXING DETAILS 5: INTERNAL STRIPPING CORNERS



SUPERSLIM STRIPPING CORNERS

SSM20900	900mm	16.5KG
SSM21800	1800mm	33.0KG
SSM22700	2700mm	49.0KG
SSM23600	3600mm	65.0KG



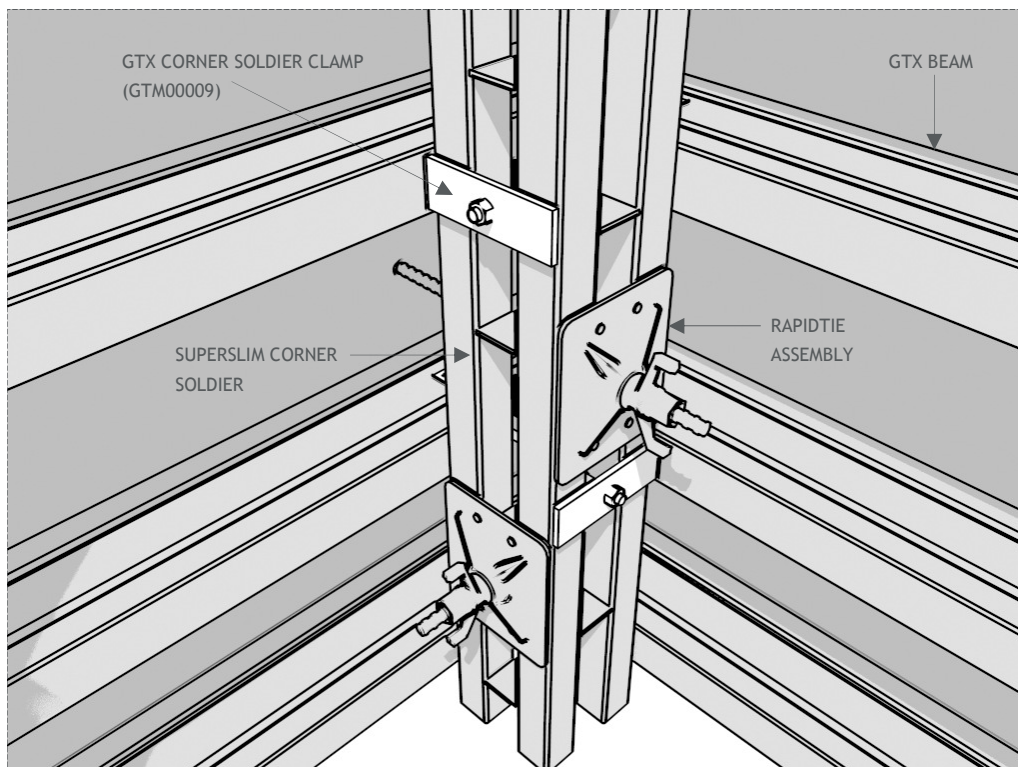
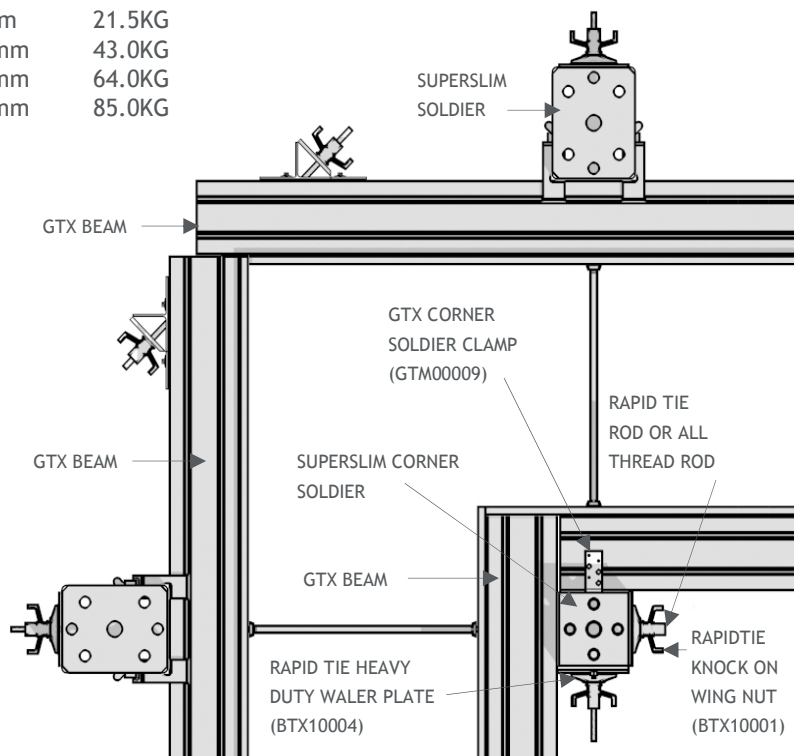
FIXING DETAILS 6: CORNER SOLDIERS

SUPERSLIM CORNERS SOLDIERS

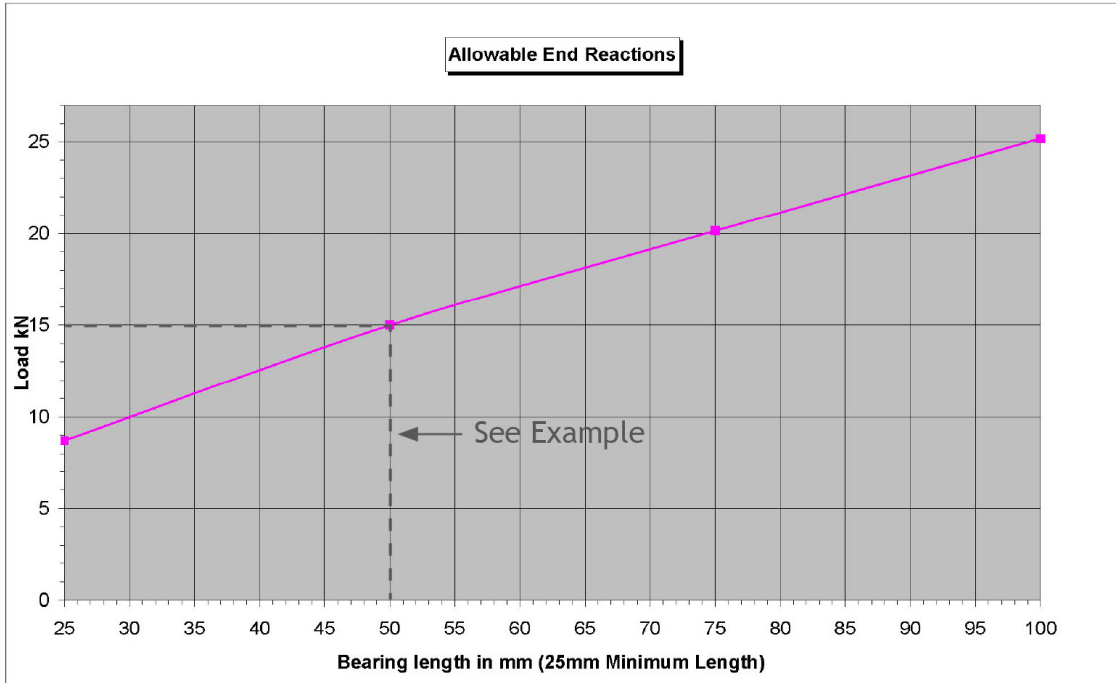
SSM10900	900mm	21.5KG
SSM11800	1800mm	43.0KG
SSM12700	2700mm	64.0KG
SSM13600	3600mm	85.0KG

SPECIFICATIONS & PROPERTIES

Allowable Tie Load
= 50 KN
Allowable Bending Moment
= 9.3 KNm
Flexural Rigidity EI
= 962 KN/m²



ALLOWABLE END REACTIONS



Example:

Explanation of 50 bearing length is 15kN per GTX.

