RMD Kwikform
Technical Data Sheets

Metric Specification

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SPECIAL TRUSS SYSTEM

E16 SANDVIKA - WOYEN

Contents

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Introduction

Simply Supported bespoke truss system with wedge release jacks.

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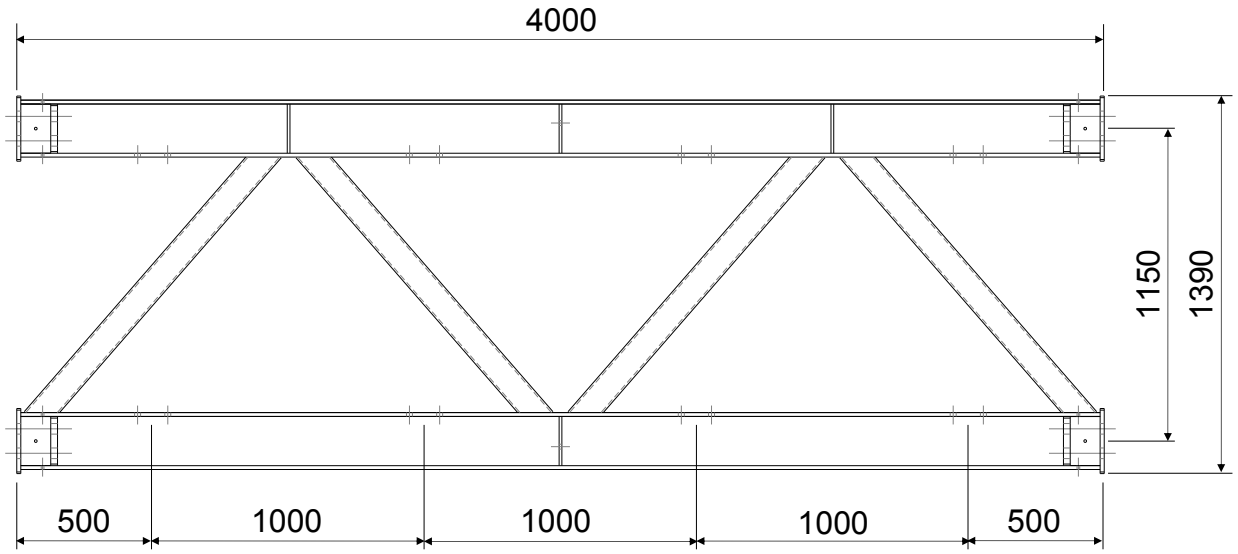
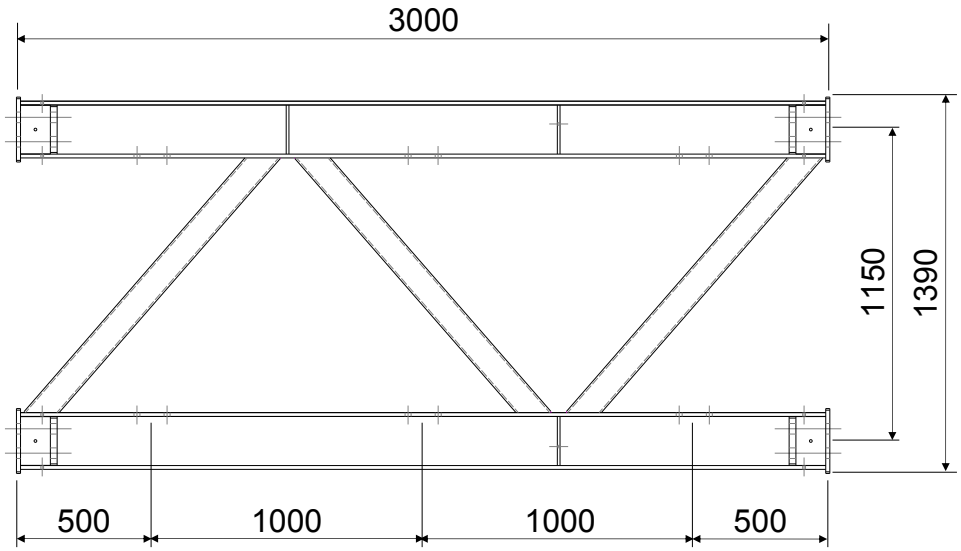
Truss Panels

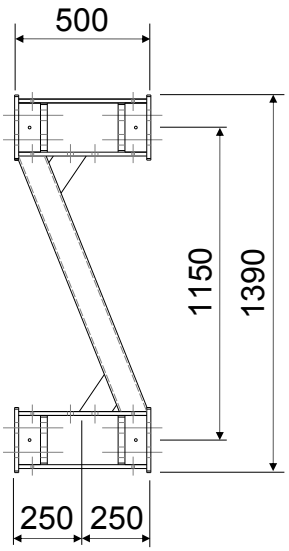
Truss Panels bolted together end to end using M36 bolts.



4.0m Panel



3.0m Panel



0.5m Panel

Ref	Description	Weight
MK 212	Truss Panel 4.0m	662 kg
MK 213	Truss Panel 3.0m	516 kg
MK 211	Truss Panel 0.5m	156 kg

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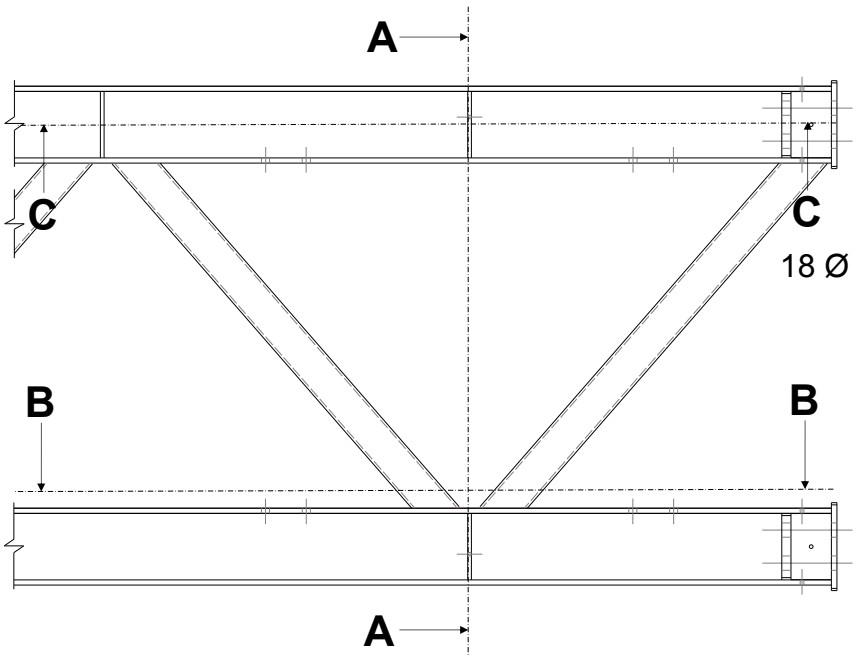
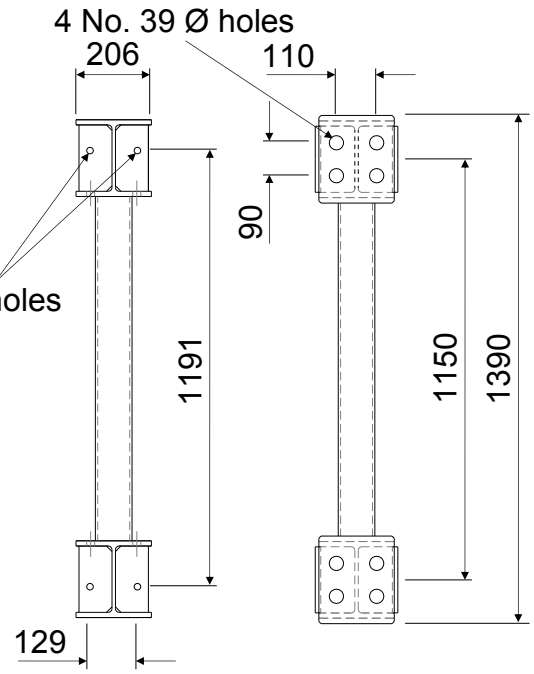
Standard Details

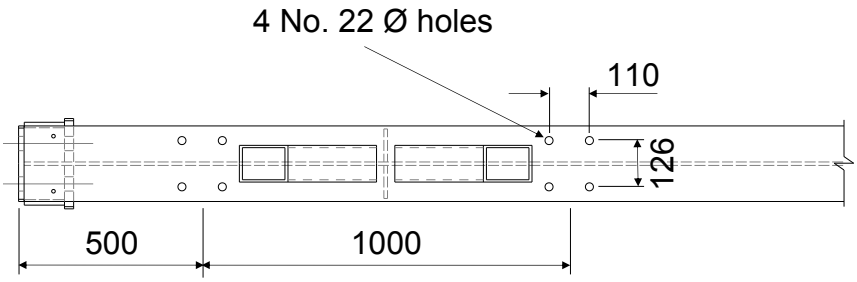


Part Elevation

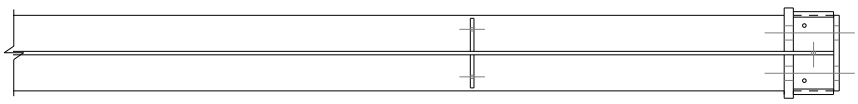


Section A-A

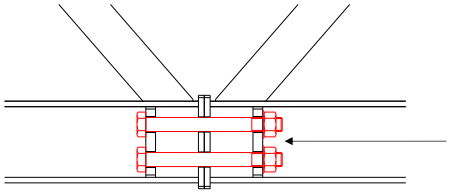
End View



Section B-B



Section C-C



Connection Detail

Torque each M36 bolt to 600Nm

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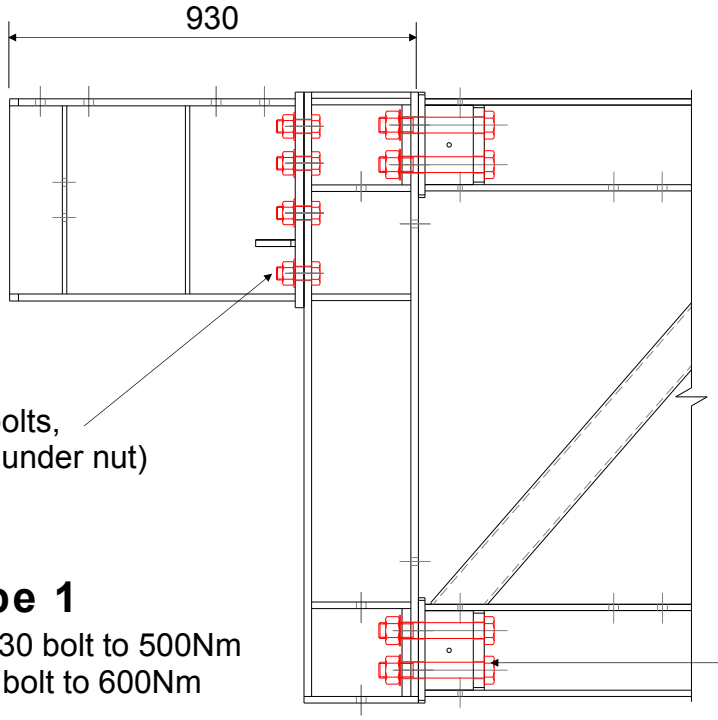
End Posts & Arms

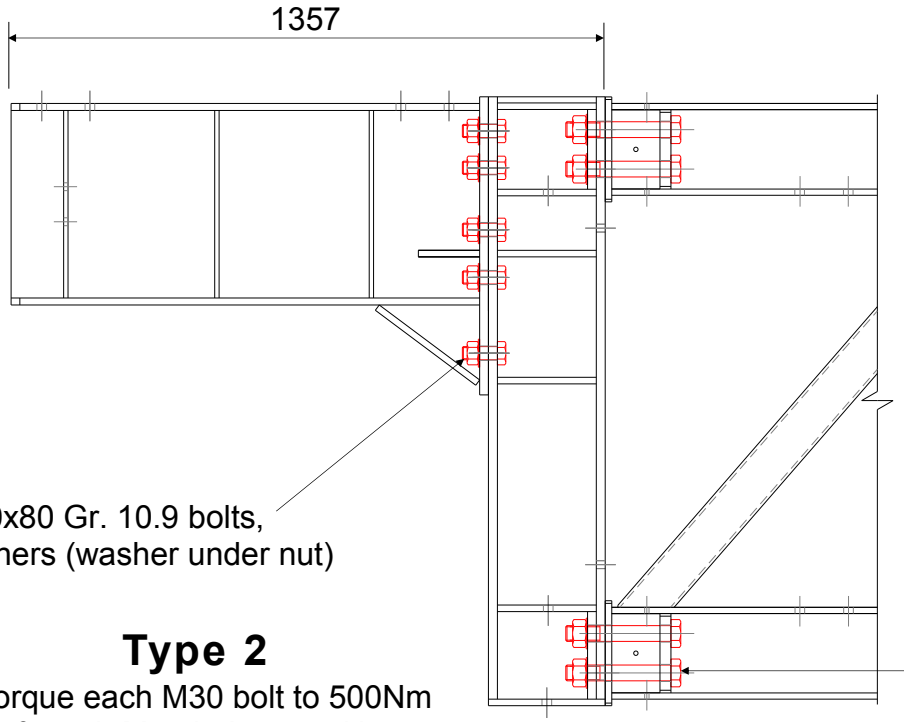


8 No. M30x80 Gr. 10.9 bolts, nuts & washers (washer under nut)

Type 1

Torque each M30 bolt to 500Nm & each M36 bolt to 600Nm

4 No. M36x240 Gr. 10.9 bolts, nuts & washers (washer under nut)



10 No. M30x80 Gr. 10.9 bolts, nuts & washers (washer under nut)

Type 2

Torque each M30 bolt to 500Nm & each M36 bolt to 600Nm

4 No. M36x240 Gr. 10.9 bolts, nuts & washers (washer under nut)

Ref	Description	Weight
MK 204-2	Type 1 End Post	168 kg
MK 204-1	Type 1 End Post Arm	82 kg
MK 205-2	Type 2 End Post	200 kg
MK 205-1	Type 2 End Post Arm	136 kg

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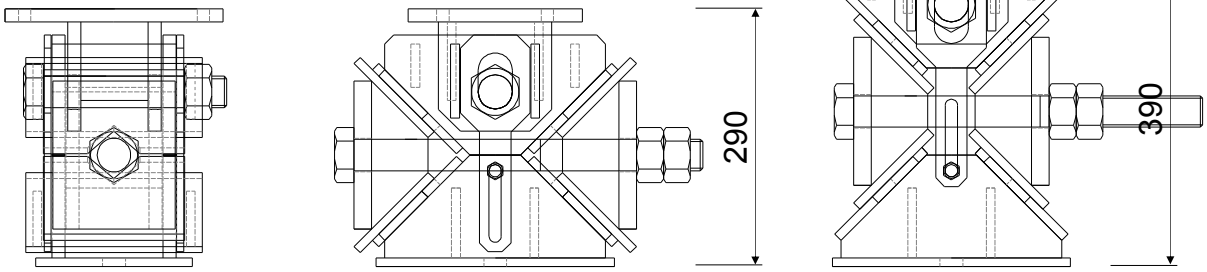
300kN Wedge Jack (MK 219) weight 72kg

Used to support End Post Arms in simply supported applications. Allows up to 100mm of strike by adjusting the two hexagon nuts on the central horizontal bolt



Fully Closed **Fully Open**

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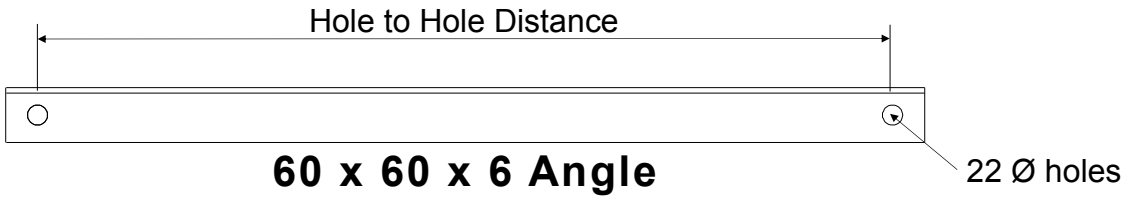
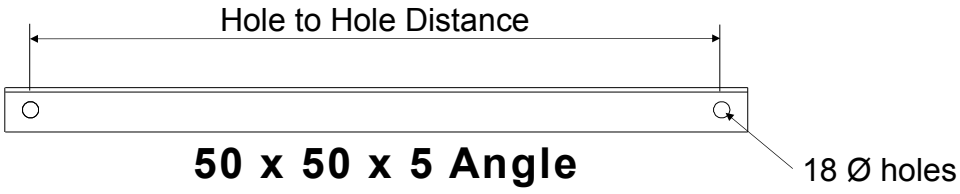
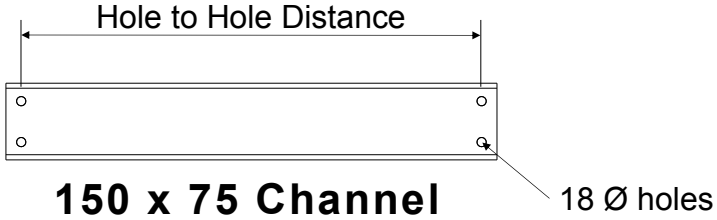
Bracing Table

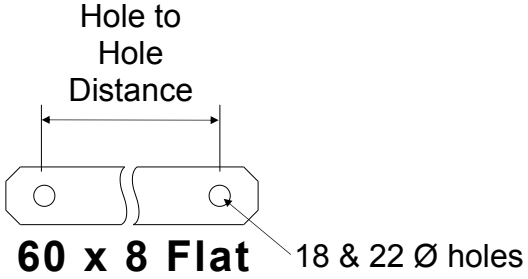
Ref	**Description**	Type	Hole to Hole Distance (mm)	Hole Diameter (mm)	Capacity	**Weight**
MK 209-1	Truss Plan Brace - 1	60 x 60 x 6 Angle	1247	22	24kN	7.1 kg
MK 209-2	Truss Plan Brace - 2	60 x 60 x 6 Angle	1089	22	24kN	6.3 kg
MK 209-3	Truss Plan Brace - 3	60 x 60 x 6 Angle	1048	22	24kN	6.1 kg
MK 209-4	Truss Plan Brace - 4	60 x 60 x 6 Angle	938	22	24kN	5.5 kg
MK 208	Truss Vertical Brace	50 x 50 x 5 Angle	1475	18	15kN	5.8 kg
MK 220	End Post Arm Link - 1	150 x 75 Channel	900	18	1.5kNm	17.2 kg
MK 217	End Post Arm Link - 2	60 x 60 x 6 Angle	900	22	24kN	5.3 kg
MK 218	End Post Link	50 x 50 x 5 Angle	850	18	20kN	3.5 kg
MK A	End Post Arm Brace - 2	60 x 8 Flat	1156	22	40kN*	4.7 kg
MK B	End Post Arm Brace - 1	60 x 8 Flat	946	22	40kN*	3.9 kg
MK C	End Post Brace	60 x 8 Flat	1145	18	40kN*	4.6 kg

* Indicates tension only items









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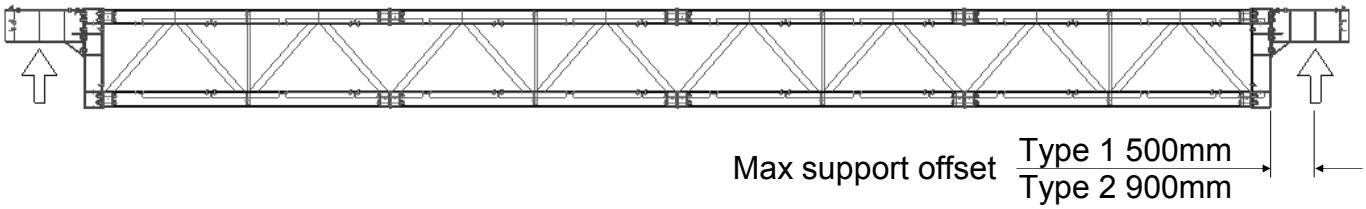
Allowable Capacities



Capacity of truss for the following conditions:.

- Truss simply supported and braced in pairs with system bracing.
- Truss subject to uniformly distributed loading to top chord with a maximum concentrated load of 50kN.
- Maximum horizontal dynamic wind pressure (q) 1.2kN/m².
- Maximum horizontal wind load from soffit & edge formwork 0.65kN/m per braced pair.

Allowable BM in truss = 1170 kNm

Allowable end reactions = 300 kN

Approximate EI value = 888295 kNm²

Approximate self weight of truss including bracing = 1.7 kN/m

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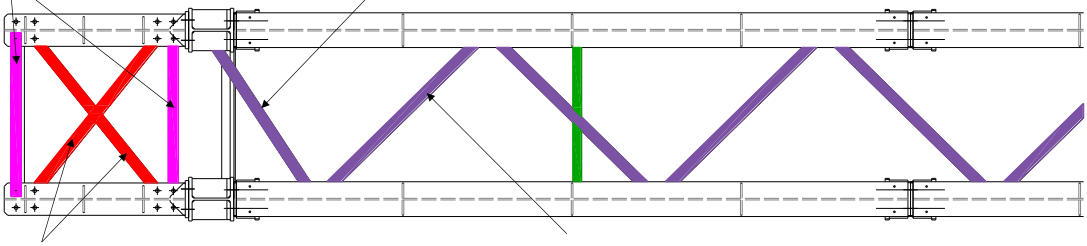
Assembly Details

End Post Arm Link - 2 attached using 2 No. M20x50 bolts & nuts

Truss plan brace (2-4) attached using 2 No. M20x50 Gr 8.8 bolts & nuts - see drawing for locations

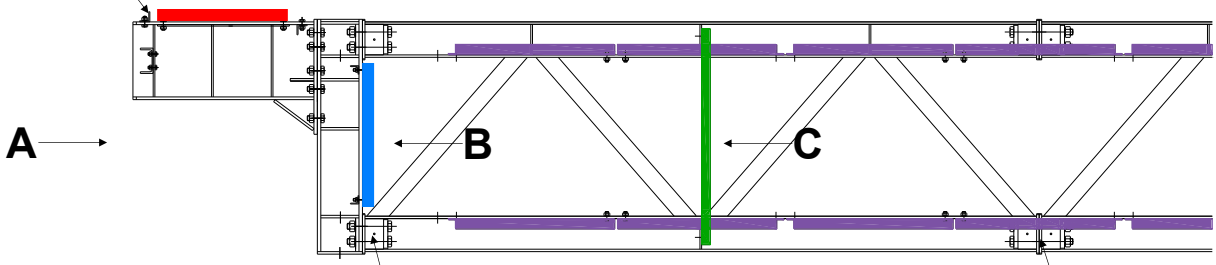


End Post Arm Brace Type 1 or 2 1236mm long attached using 2 No. M20x50 bolts & nuts

Truss plan brace - 1 attached using 2 No. M20x50 Gr 8.8 bolts & nuts 4 types

This End Post Arm Link - 2 must be placed above the End Post Arm

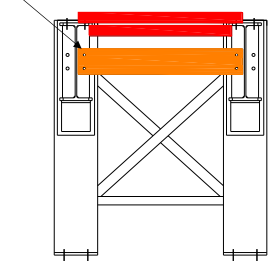
GIRDER PANELS MUST BE ORIENTATED TO GIVE THE BRACING PATTERN SHOWN



4 No. M36x240 Gr.10.9 bolts, nuts & washers (washer under nut)

4 No. M36x350 Gr.10.9 bolts, nuts & washers (washer under nut)

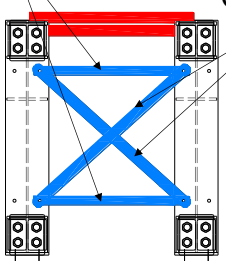
End Post Arm Link - 1 attached using 4 No. M16x40 Gr.8.8 bolts & nuts



View A

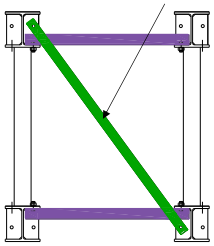
End Post Link attached using M16x60 Gr.8.8 bolts & nuts

End Post Brace 1225mm long attached using 2 No. M16x60 Gr.8.8 bolts &



View B

Truss Vertical Brace attached using 2 No. M16x40 Gr.8.8 bolts & nuts



View C

Note: Torque each M30 bolt to 500Nm & each M36 bolt to 600Nm