150C Purlin Trestle

C Purlin Trestle

User Manual

Read in conjuction with Kwiktech Build Guide and Kwiktech Tips & Tricks

Designed by



Engineered by



Rating: 2 Tonne

Rev 1

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General Arrangement

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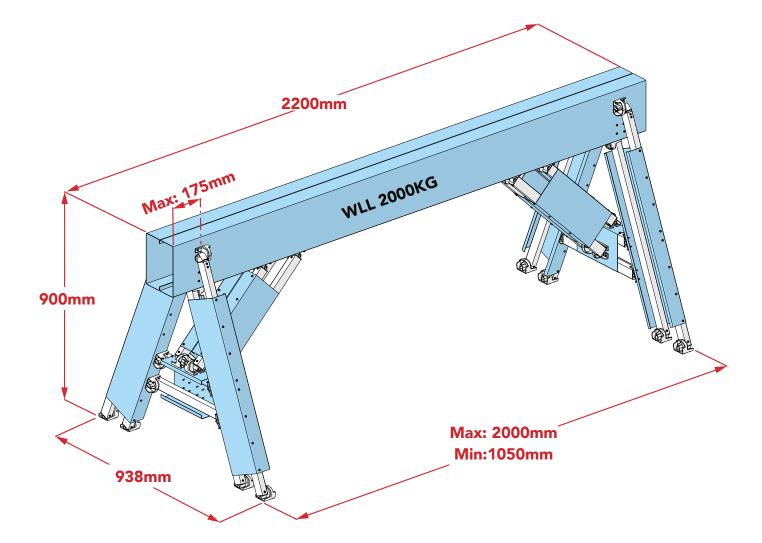
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Materials List

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KWIKTECH KITS

ITEM	QUANTITY	RESELLER RPICE
Kwiktech DIY Square Kit (NOTE: Some items will not be used)	2	
Kwiktech DIY Creator Kit (NOTE: Some items will not be used)	1	

NON KWIKTECH ITEMS

ITEM	ITEM ID #	ASSEMBLY ID #	LENGTH	COLOUR	QUANTITY	RESELLER RPICE
C200-10 Purlin	1		2200*	Galv	2	
C150-10 Purlin	2	A B	654	Galv	4	
C150-10 Purlin	3	9 D	353	Galv	4	
C150-10 Purlin	4	(3)	227	Galv	2	
RHS 38x25x1.2mm	5	A B	870	Galv	4	
RHS 38x25x1.2mm	6	O D	724	Galv	4	
RHS 38x25x1.2mm	7	A B	576	Galv	4	
RHS 38x25x1.2mm	8	9 D	424	Galv	4	
RHS 38x25x1.2mm	9	(3)	390	Galv	2	
RHS 38x25x1.2mm	10	(3)	297	Galv	2	
SHS 65x65x2.0mm	•		199	Galv	4	
10G x 16 Self Drilling Wafer Head Screw	-	-	16	Galv	170	
*Note: 1050mm to 2300mm				-	Sub-Total	

170	
Sub-Total	
GST	
Shipping	
Total Cost	

REQUIRED KWIKTECH ITEMS (INCLUDED IN KIT)

ITEM	QUANTITY	ITEM	QUANTITY
Post Connector (KT-P-001)	0	10G x 16 Self Drilling Wafer Head Screw	250
Universal Connector (KT-P-002)	40	M6 x 40 Socket Head Cap Screw - Zinc	40
Rail Inserts (KT-P-003)	32	M6 x 20 Hex Head Bolt - Galv	0
60° Rail Inserts (KT-P-004)	8	M6 Nut - Galv	0
Star Picket Guide (KT-P-005)	0	Kwiktech 2mm Displacement Plate	0
Post Cap (KT-P-006)	0	Right Angle Bracket - Zinc	3
Tension Strapping 0.8 x 30 x 85mm	0	Assembly Wedge - Rubber	0
Tension Strapping 0.8x 30 x 95mm	0	10G x 16 Self Drilling Small Head Flat Top Screw	0
Tension Strapping 0.8 x 30 x 135mm	0	Tension Strapping 0.8 x 30 x 250mm	0

HOLLOW METAL

ITEM	TOTAL LENGTH
Duragal C200-15 Purlin	4.6m
Duragal C150-10 Purlin	4.6m
Duragal 38x25x1.2mm	12m
Duragal 65x65x2.0mm	0.8m

FOR INFORMATION ONLY

Member Locations

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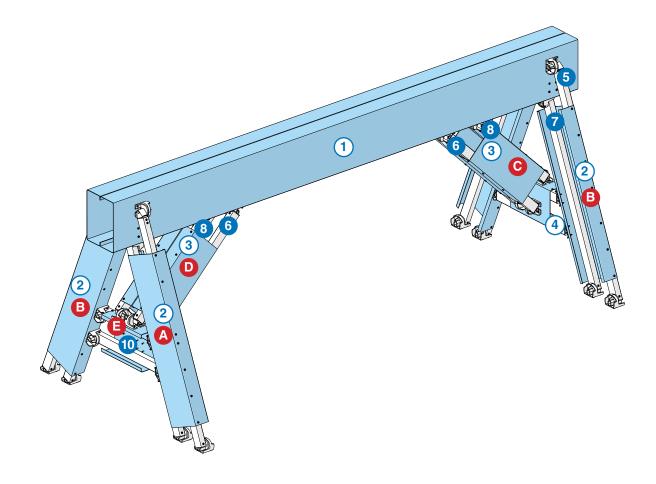
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Rail Assembly

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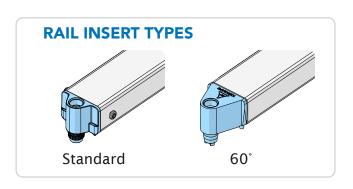
All dimensions are in millimeters (mm)

Rail Setup

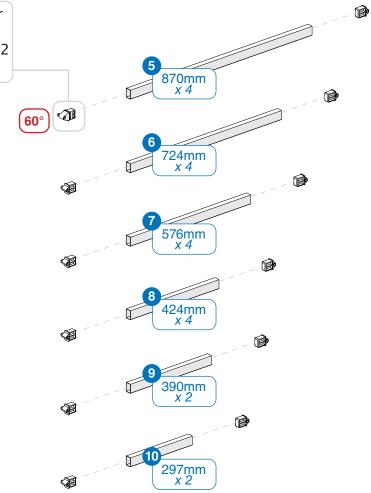
Refer to build guide for assembly details.

All members have a Standard insert unless otherwise noted.

Mark item ID on each member.



Note: Keep the 60° connector loose until assembled. When assembled, fix in place with x2 screws on the exterior side.



Extra Strong Rail Assembly

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Rail Setup

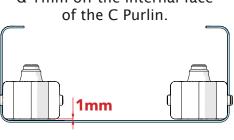
Refer to build guide for assembly details.

Mark assembly ID on each member.

Use of C Clamp recommended for Rail to C Purlin Fixing

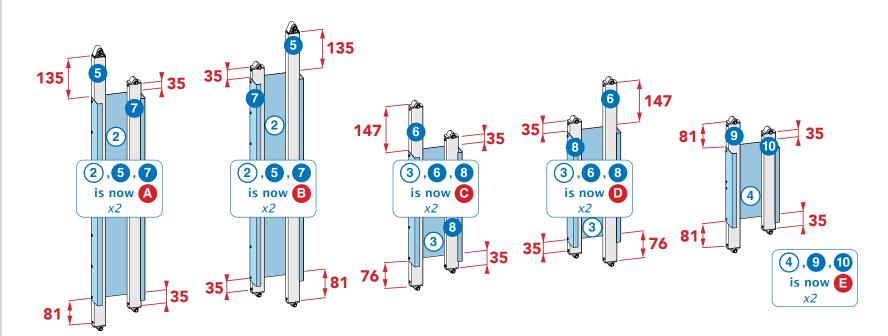
MEMBER ORIENTATION

38x25 flush with the side & 1mm off the internal face of the C Purlin.



Screw 10mm from end of the C Purlin.





Universal Connector Locations C Purlin Trestle

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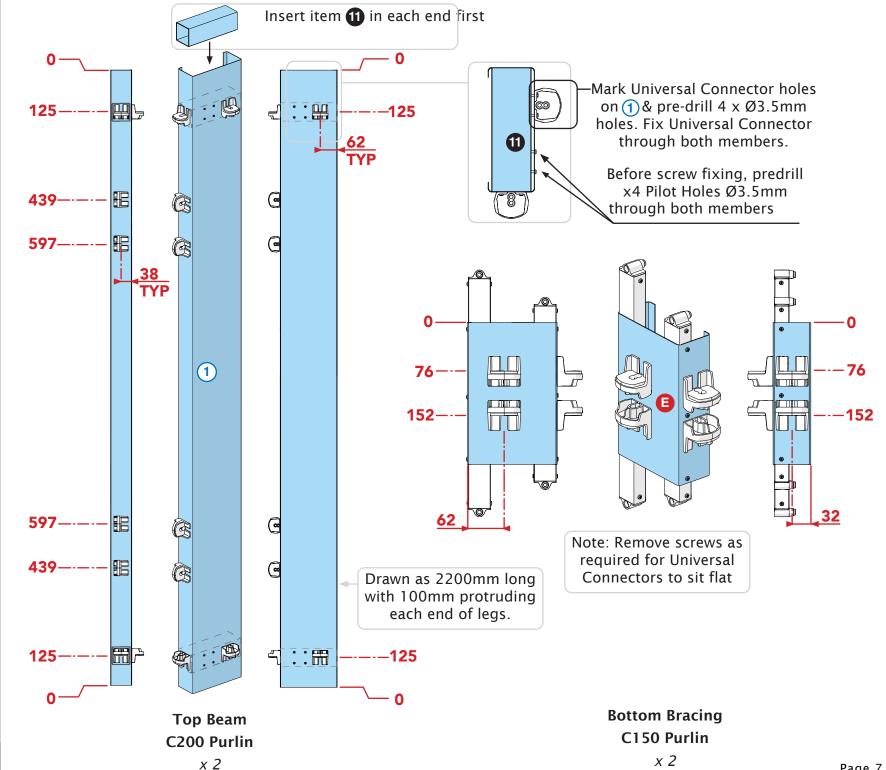
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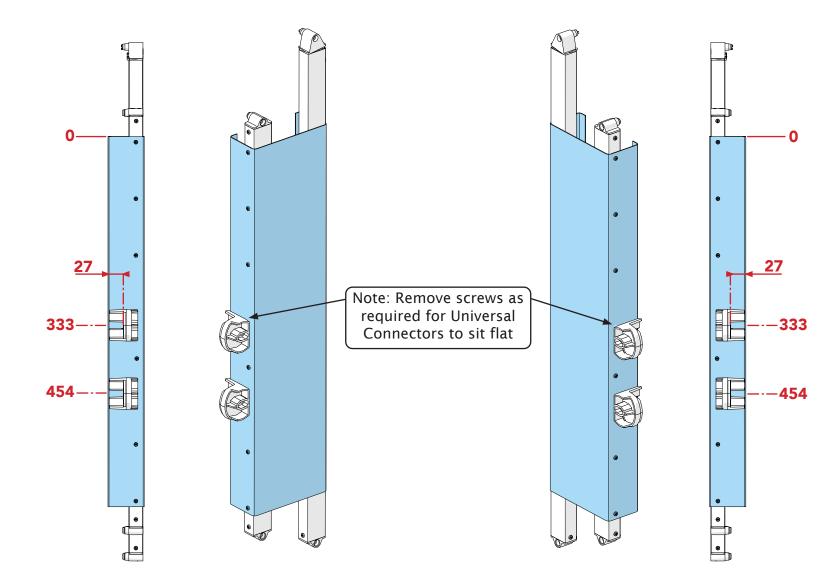
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Angled Legs (A) C150 Purlin

x 2

Angled Legs **(B)** C150 Purlin

x 2

Assembly Steps

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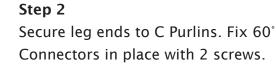
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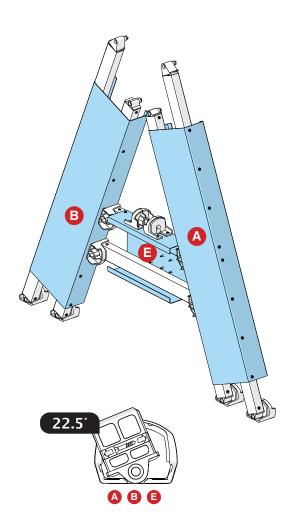
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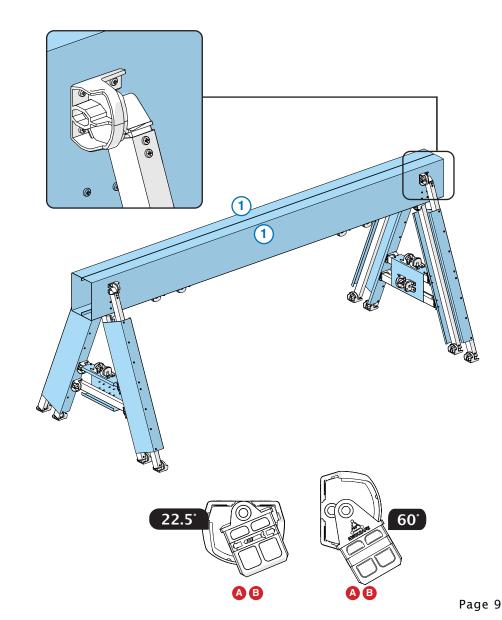
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Step 1

Assemble both leg ends.







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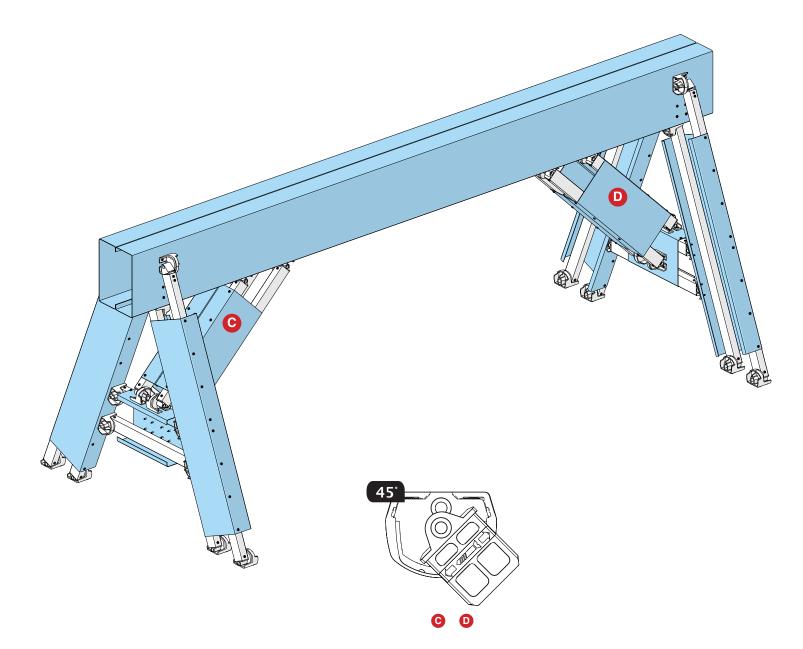
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Step 3Secure Trestle legs with underside diagonal bracing.



Blueprint Dimensions

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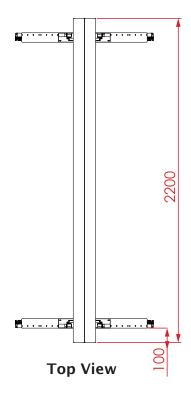
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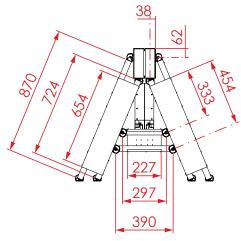
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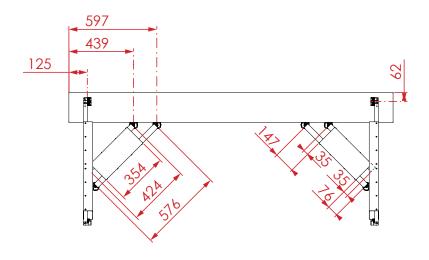
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Side View

SCHMIDT BENTLEY ENGINEERING CONSULTING



STRUCTURAL CALCULATION PACKAGE

Project: Proposed 2m Trestle

Address: N/A

Job No: SBEC 2101-08

Revision: B

By: SB



Job #: SBEC 2101-08

Page #:

Designed: SB **Date:** 14/01/2021

Checked: Date:

ENGINEERING CALCULATION PACKAGE

Project: Proposed 2m Trestle

Address: N/A

Job No: SBEC 2101-08

Revision: A

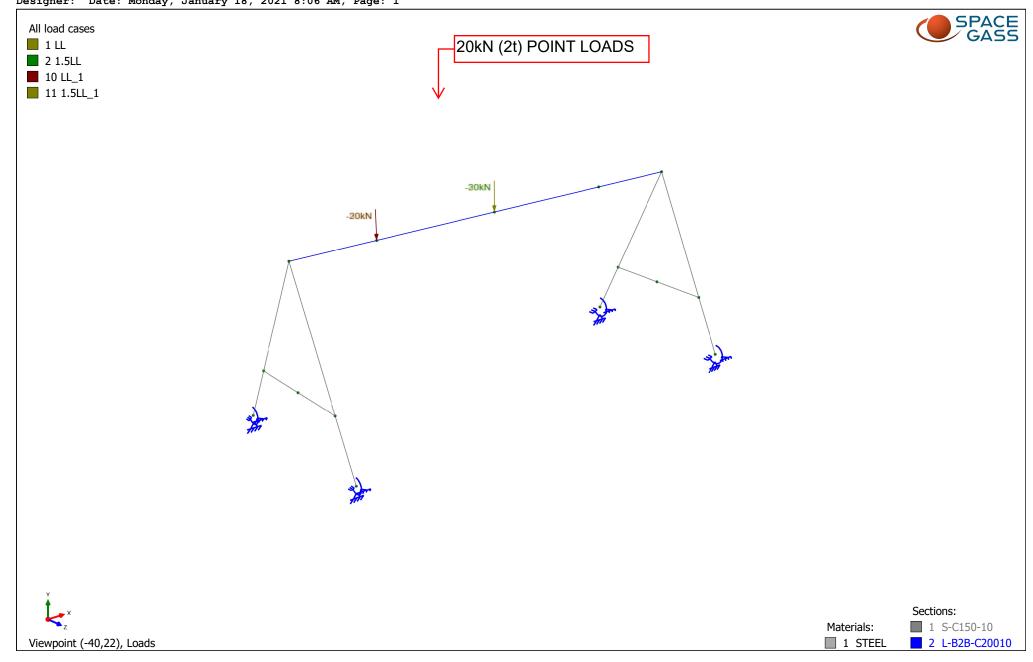
Design Information

SBEC have been engaged to provide structural engineering for the proposed trestle.

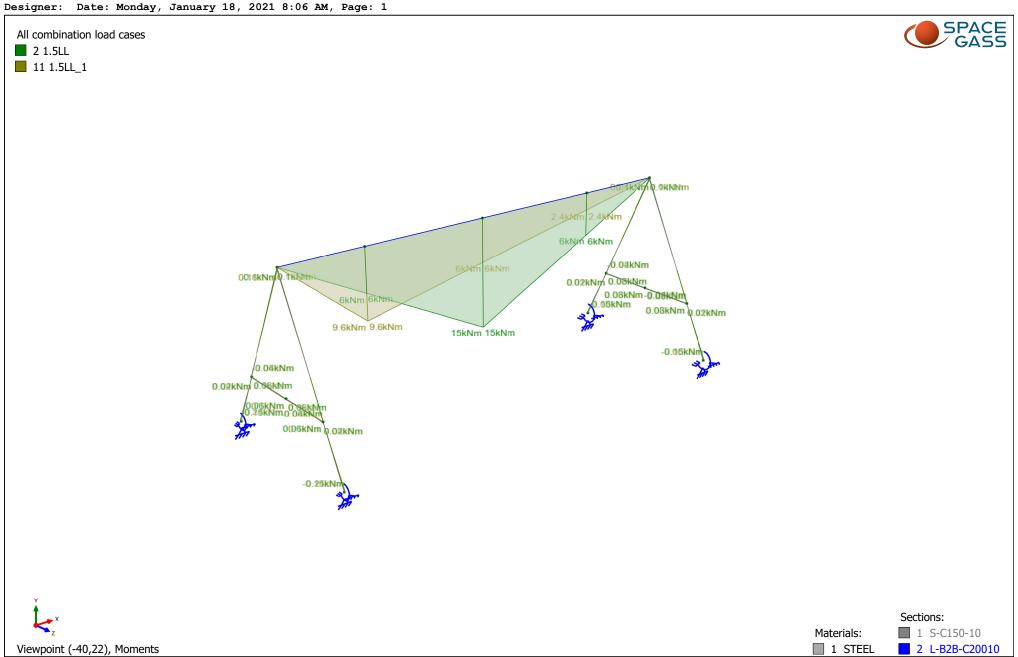
Reference Documents

- a. AS/NZS 1170.0 Structural design actions General principles
- b. AS/NZS 1170.1 Structural design actions Permanent, imposed and other actions
- c. AS4100-1998 Steel design

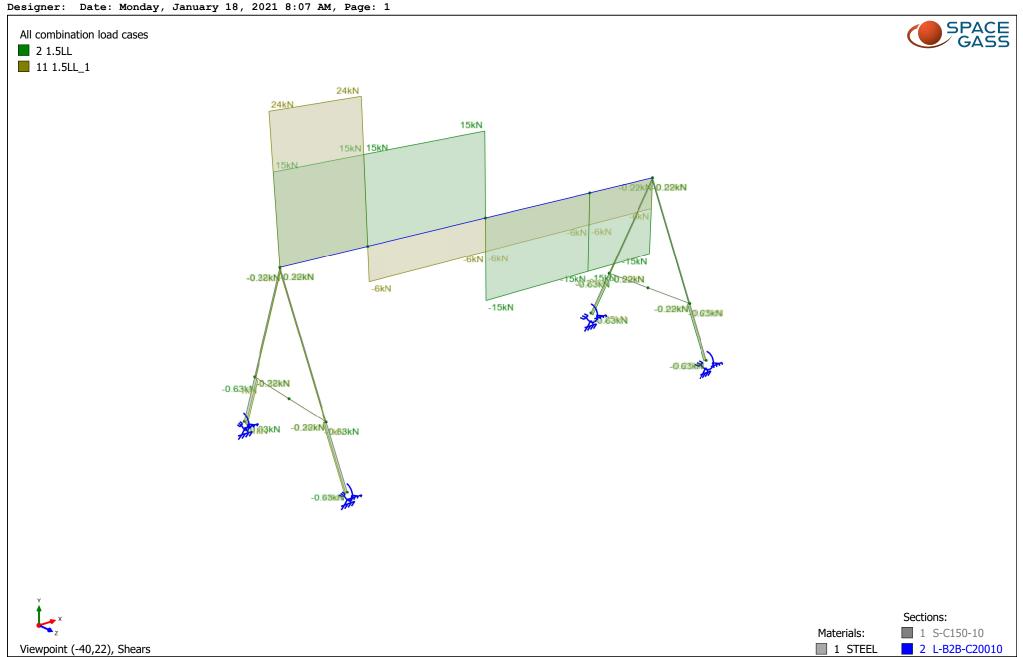
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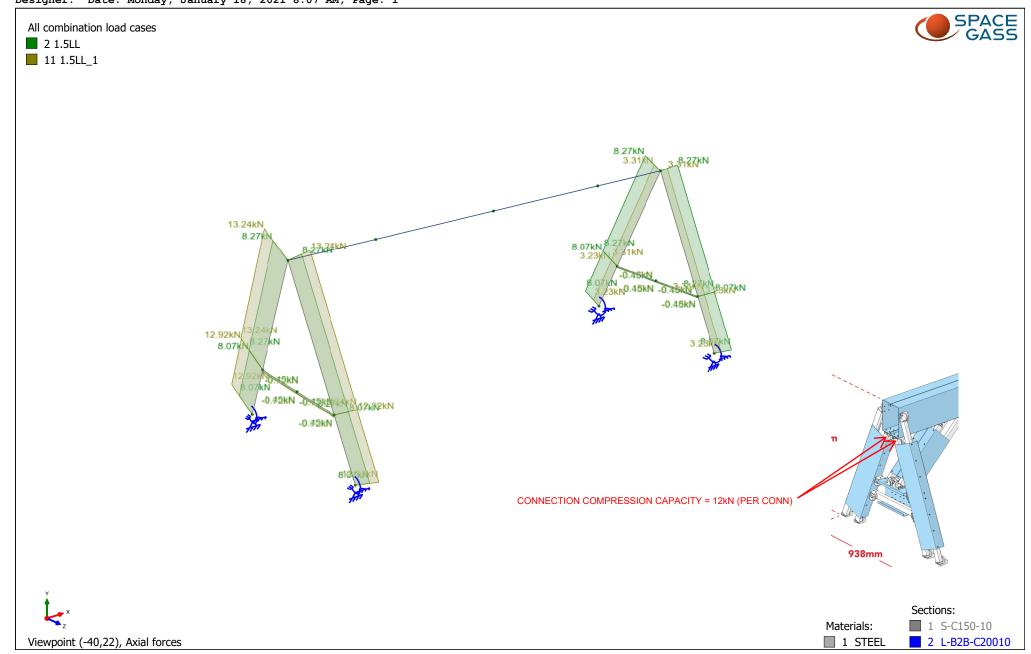


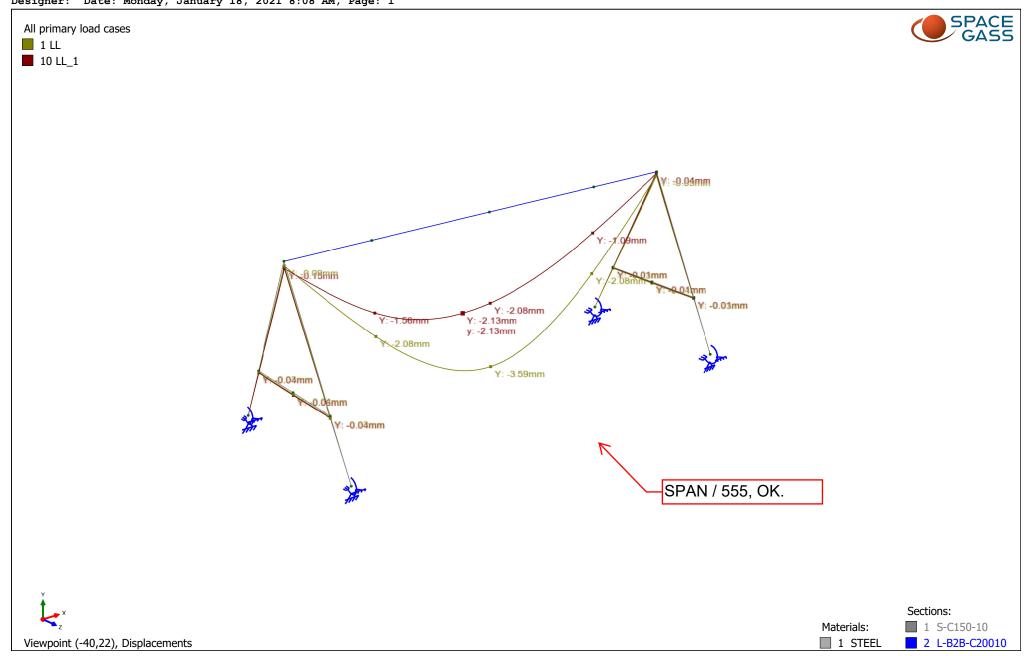
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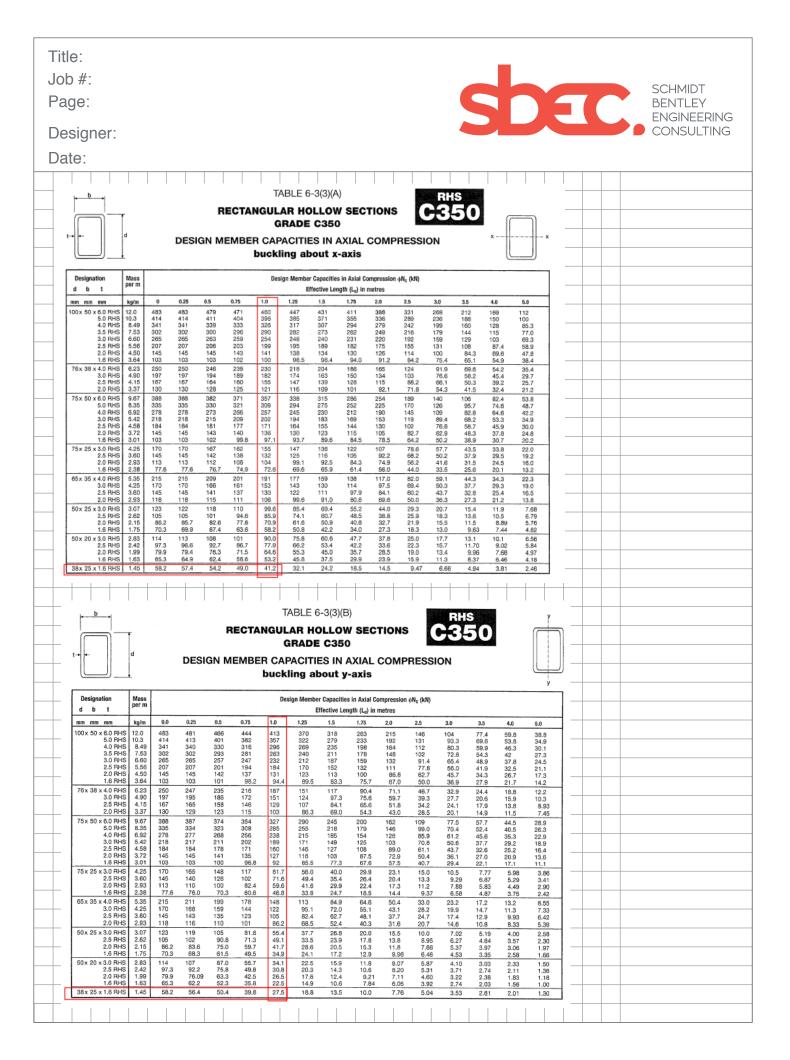


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