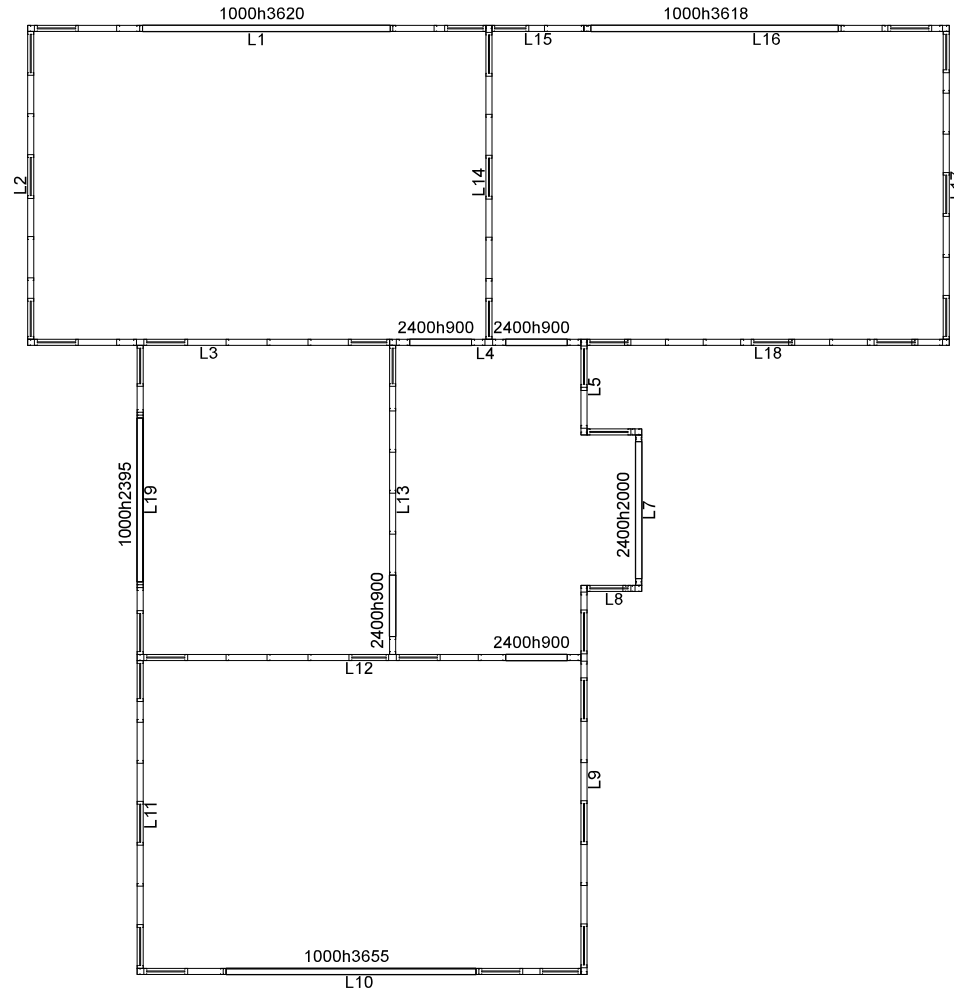


Design Summary

Floor Type	Concrete
Roof Load	SHEET
System	FRAMECAD_FT_m
Wind Load	W49



DO NOT SCALE.
IF IN DOUBT, ASK.

Wall Frame Layout



JOB DETAILS

DRAWN	DATE DRAWN
Detailer Name	14-02-2021
DWG FILE	VIEW NAME
School M	1 of 3

SCALE	JOB REFERENCE
1 : 100	
ON	REVISION
A4-Sheet	

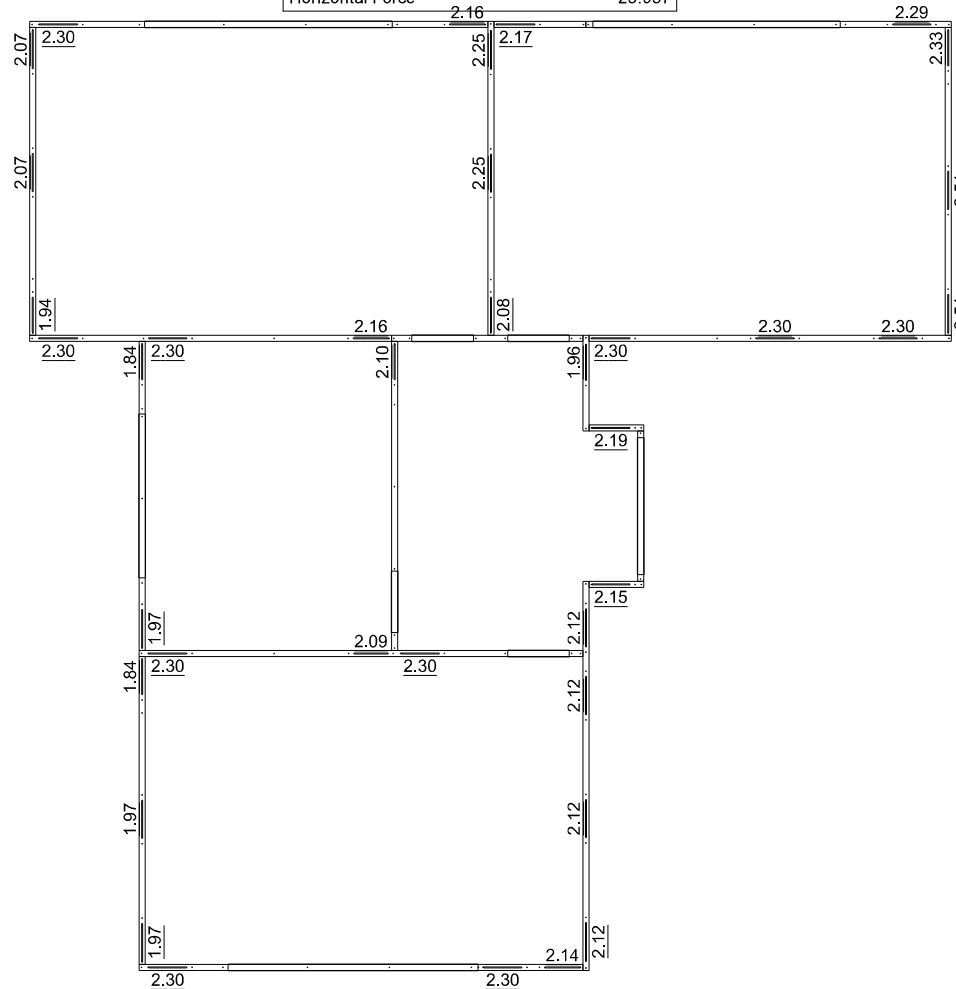
Bracing Summary	
Wind Force 'X'	39.700
Wind Force 'Y'	30.700
Shortage 'X'	0.000
Shortage 'Y'	0.000
Resistance 'X'	69.700
Resistance 'Y'	66.400
Density 'X'	5300
Density 'Y'	4591

Force values shown in kN's

Earthquake Summary	
Foundation Type	IBC 2015
Structural Ductility Factor	A
Seismic Hazard Coefficient	4
Fundamental Period	250
Seismic Weight	0.135
Base Shear Force	78.657
Horizontal Force	25.957

Bracing Makeup	
Brace Resistance 'X'	40.300
Brace Resistance 'Y'	42.100
Sheath Resistance 'X'	29.400
Sheath Resistance 'Y'	24.300
P/Board Resistance 'X'	0.000
P/Board Resistance 'Y'	0.000
Cladding Resistance 'X'	0.000
Cladding Resistance 'Y'	0.000

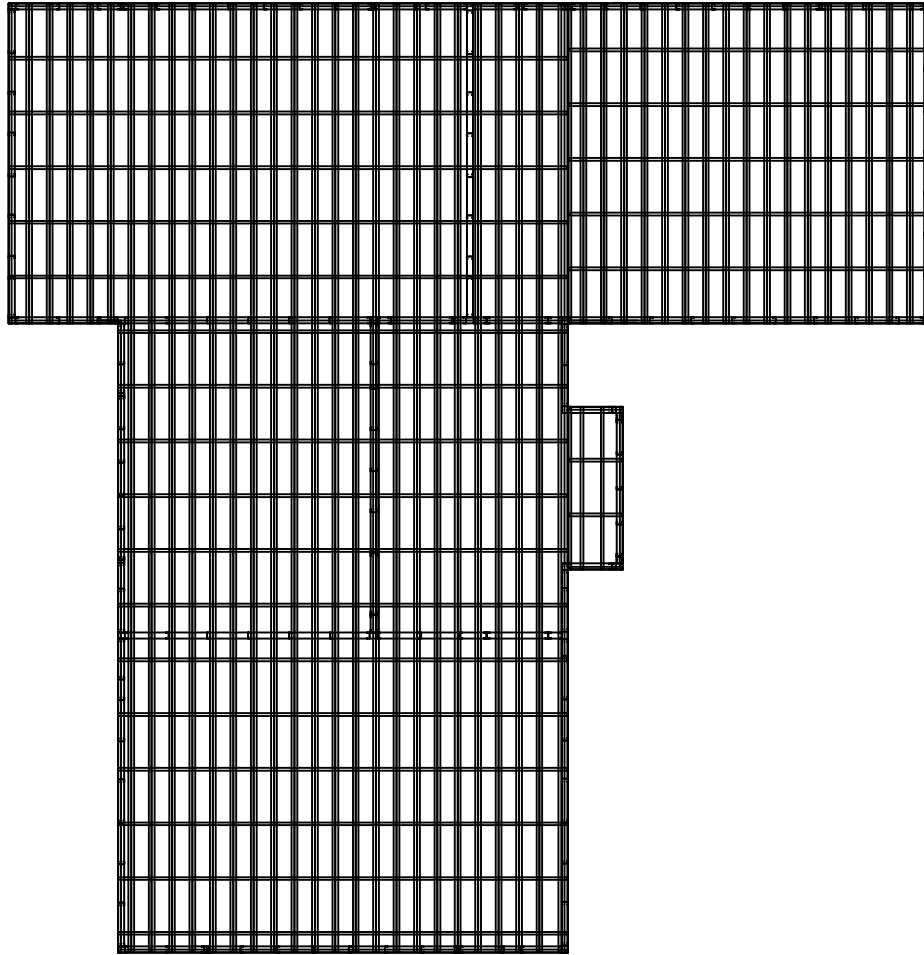
Force values shown in kN's



DO NOT SCALE.
IF IN DOUBT, ASK.

Bracing and Racking Resistance Plan

	JOB DETAILS	DRAWN	DATE DRAWN	SCALE	JOB REFERENCE	REVISION
		Detailer Name	14-02-2021	1 : 100		
		DWG FILE	VIEW NAME	ON		
		School M	2 of 3	A4-Sheet		



Roof Frame Layout

DO NOT SCALE.
IF IN DOUBT, ASK.



JOB DETAILS	DRAWN	DATE DRAWN	SCALE	JOB REFERENCE	REVISION
	Detailer Name	14-02-2024	1 : 100		
	DWG FILE	VIEW NAME	ON		
	School M	3 of 3	A4-Sheet		



Panel Layout Report (Openings)

Company:	Company Name	Dwg Name:	School M
Project:		Current View:	1
		Detailer:	Detailer Name
		Print Date:	14-02-2024
Job Number:		Page No:	1

Opening Code	Opening Library	Head Location	Opening Height	Opening Width	Qty	Status
1000h2395	UW	2060	1000	2395	1	Passed
1000h3618	UW	2060	1000	3618	1	Passed
1000h3620	UW	2060	1000	3620	1	Passed
1000h3655	UW	2060	1000	3655	1	Passed
2400h2000	UD	2400	2400	2000	1	Passed
2400h900	UD	2400	2400	900	4	Passed



Panel Layout Report (Reactions)

Company:	Company Name	Dwg Name:	School M
Project:		Current View:	1
		Detailer:	Detailer Name
		Print Date:	14-02-2024
Job Number:		Page No:	1

Wall No.	TP Dn Reaction (kN/m)	TP Up Reaction (kN/m)	BP Dn Reaction (kN/m)	BP Up Reaction (kN/m)
L1	6.843	1.476	7.220	1.193
L2	10.366	0.000	10.698	0.000
L3	14.512	0.000	15.246	0.000
L4	14.512	0.000	15.352	0.000
L5	9.680	0.000	10.119	0.000
L6	9.680	0.000	10.547	0.000
L7	9.680	0.000	10.109	0.000
L8	9.680	0.000	10.114	0.000
L9	10.414	0.000	10.852	0.000
L10	3.199	1.667	3.595	1.370
L11	9.122	0.000	9.475	0.000
L12	15.852	0.000	16.644	0.000
L13	4.976	0.000	5.779	0.000
L14	10.366	0.000	11.206	0.000
L15	6.843	1.476	7.274	1.153
L16	6.843	1.476	7.248	1.172
L17	10.366	0.000	10.735	0.000
L18	14.512	0.000	14.916	0.000
L19	9.122	0.000	9.475	0.000



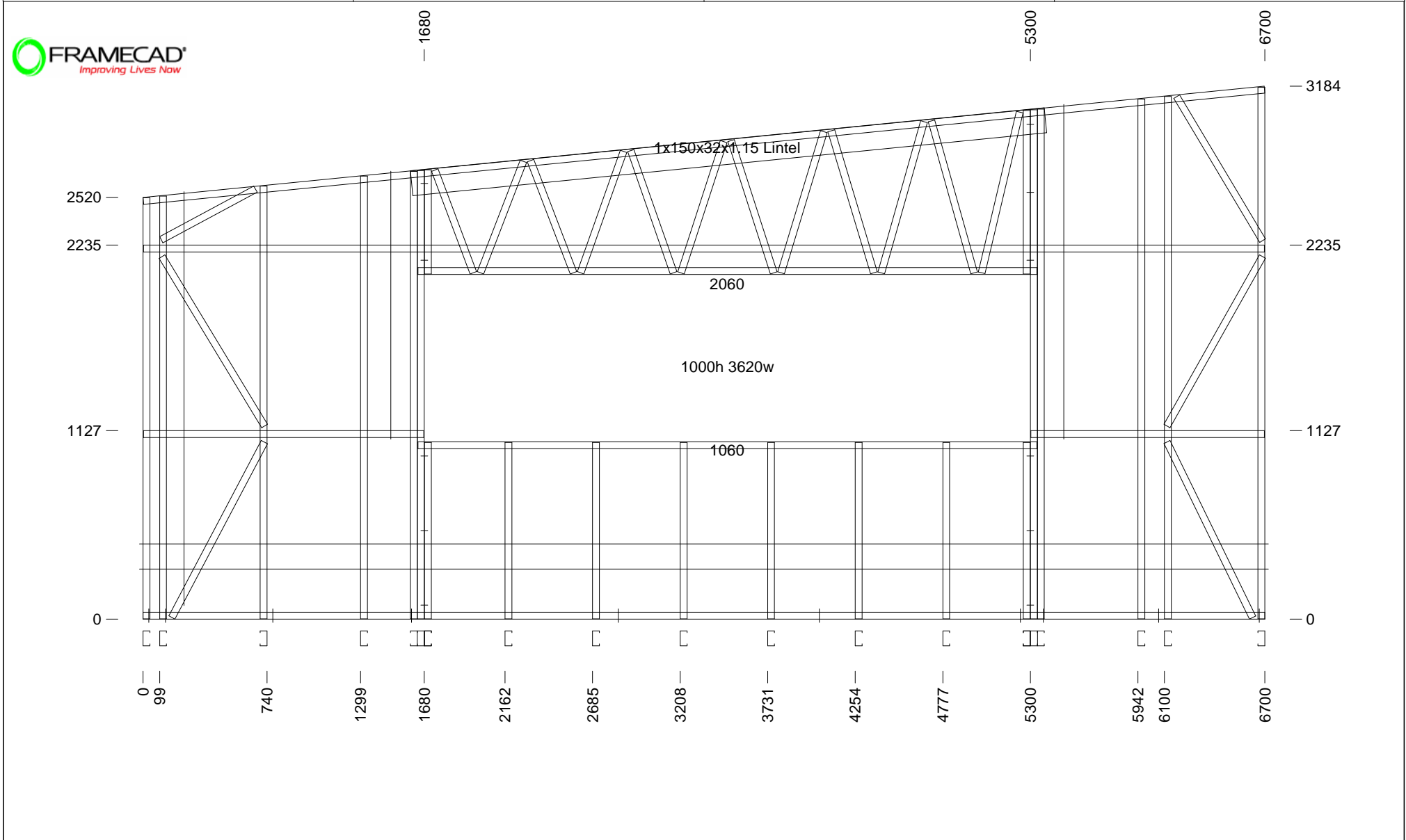
Panel Layout Report (Loads)

Company:	Company Name	Dwg Name:	School M
Project:		Current View:	1
		Detailer:	Detailer Name
		Print Date:	14-02-2024
Job Number:		Page No:	1

Wall No.	Dead Load	Roof Live Load	Wind Load Up	Wind Load Dn	Snow Load	Self Weight	Floor Live Load	Horizontal Wind
	(kN/m)	(kN/m)	(kN/m)	(kN/m)	(kN/m)	(kN/m)	(kN/m)	(kPa)
L1	1.036	0.875	2.408	1.095	3.500	0.314	0.000	1.501
L2	3.378	0.625	1.720	0.782	1.875	0.277	3.750	1.501
L3	4.729	0.875	2.408	1.095	2.625	0.612	5.25	0.500
L4	4.729	0.875	2.408	1.095	2.625	0.700	5.25	0.500
L5	3.196	0.650	1.789	0.813	1.725	0.365	3.450	1.501
L6	3.196	0.650	1.789	0.813	1.725	0.722	3.450	0.500
L7	3.196	0.650	1.789	0.813	1.725	0.357	3.450	1.501
L8	3.196	0.650	1.789	0.813	1.725	0.361	3.450	1.501
L9	3.407	0.650	1.789	0.813	1.875	0.365	3.750	1.501
L10	1.206	1.000	2.752	1.251	0.000	0.330	0.000	1.501
L11	2.972	0.550	1.514	0.688	1.650	0.295	3.300	1.501
L12	5.19	1.000	2.752	1.251	2.850	0.660	5.70	0.500
L13	1.621	0.300	0.826	0.375	0.900	0.670	1.800	0.500
L14	3.378	0.625	1.720	0.782	1.875	0.700	3.750	0.500
L15	1.036	0.875	2.408	1.095	3.500	0.359	0.000	1.501
L16	1.036	0.875	2.408	1.095	3.500	0.337	0.000	1.501
L17	3.378	0.625	1.720	0.782	1.875	0.308	3.750	1.501
L18	4.729	0.875	2.408	1.095	2.625	0.337	5.25	1.501
L19	2.972	0.550	1.514	0.688	1.650	0.295	3.300	1.501

150x32x1.15 Lintel	1	3803mm	89S41-095-350	1	1000mm	89S41-095-350	8	1055mm	89S41-095-350	1	1162mm	89S41-095-350	1	1166mm
89S41-095-350		1182mm	89S41-095-350		1185mm	89S41-095-350		1394mm	89S41-095-350		1674mm	89S41-095-350		2516mm
89S41-095-350		2526mm	89S41-095-350		2585mm	89S41-095-350		2645mm	89S41-095-350		2674mm	89S41-095-350		2678mm
89S41-095-350		3041mm	89S41-095-350		3046mm	89S41-095-350		3105mm	89S41-095-350		3121mm	89S41-095-350		3176mm
89S41-095-350		3696mm	89S41-095-350		622mm	89S41-095-350		639mm	89S41-095-350		655mm	89S41-095-350		6694mm
89S41-095-350		6700mm	89S41-095-350		6729mm	89S41-095-350		713mm	89S41-095-350		718mm	89S41-095-350		768mm
89S41-095-350		773mm	89S41-095-350		825mm	89S41-095-350		829mm	89S41-095-350		881mm	89S41-095-350		886mm
89S41-095-350		938mm	89S41-095-350		943mm	89S41-095-350		976mm	89S41-095-350		986mm	89S41-095-350		

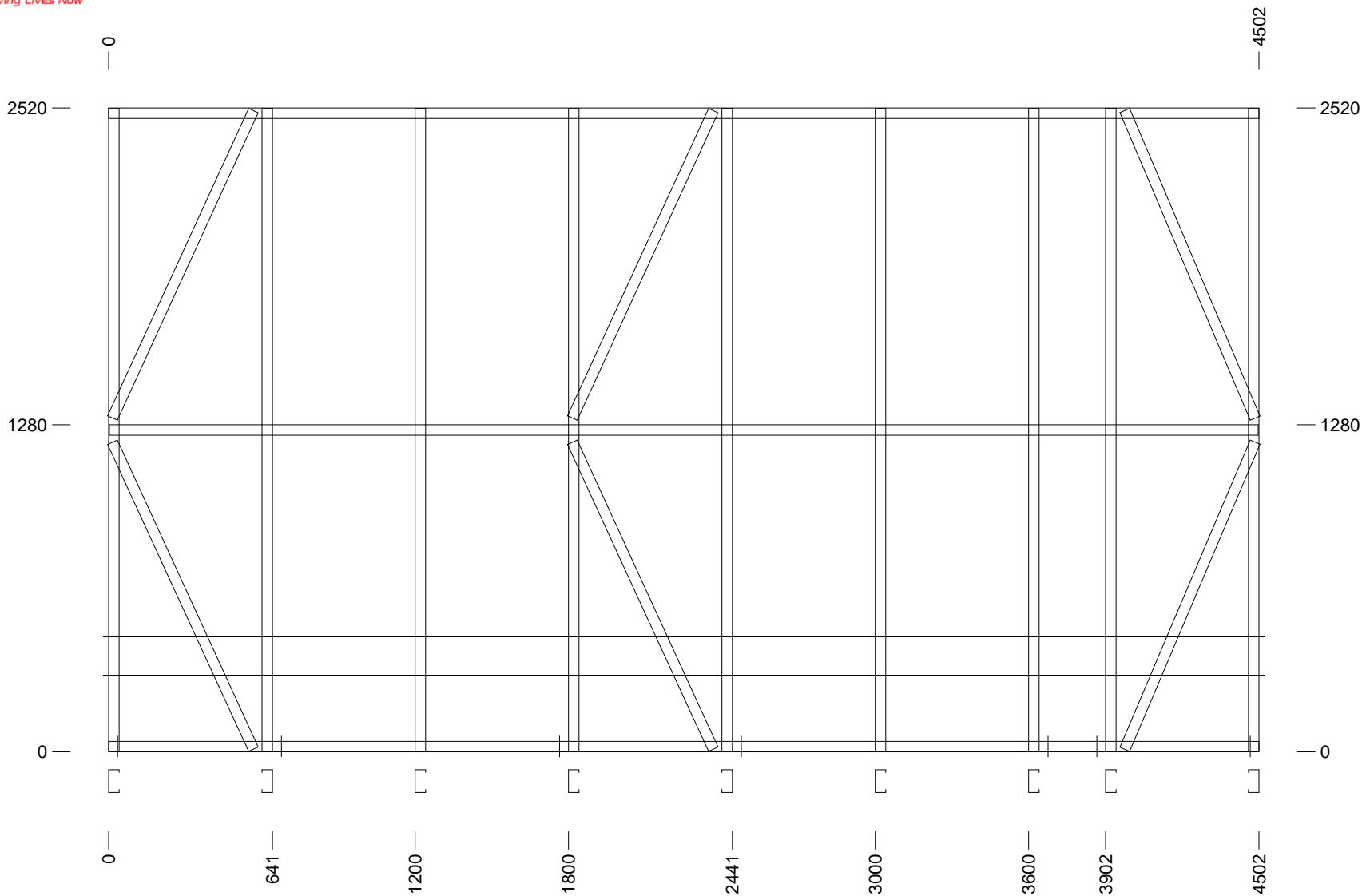
Assembly Weight 129.8kg FRAMECAD 10g-16mm Flathead FRAMECAD 10g-19mm XDrive



<<< Joins L2 Quantity Required = 1 Mark as L1 Header Engineering = Passed Joins L14 >>>

89S41-095-350	1	1306mm	89S41-095-350	1	1307mm	89S41-095-350	2	1322mm	89S41-095-350	2	1323mm	89S41-095-350	9	2516mm	89S41-095-350	1	4496mm
89S41-095-350		4502mm															

Assembly Weight 61.7kg FRAMECAD 10g-19mm XDrive



<<< Joins L1

Quantity Required = 1 Mark as L2 Header Engineering = Passed

Joins L3 >>>

Company Name

Dwg School M

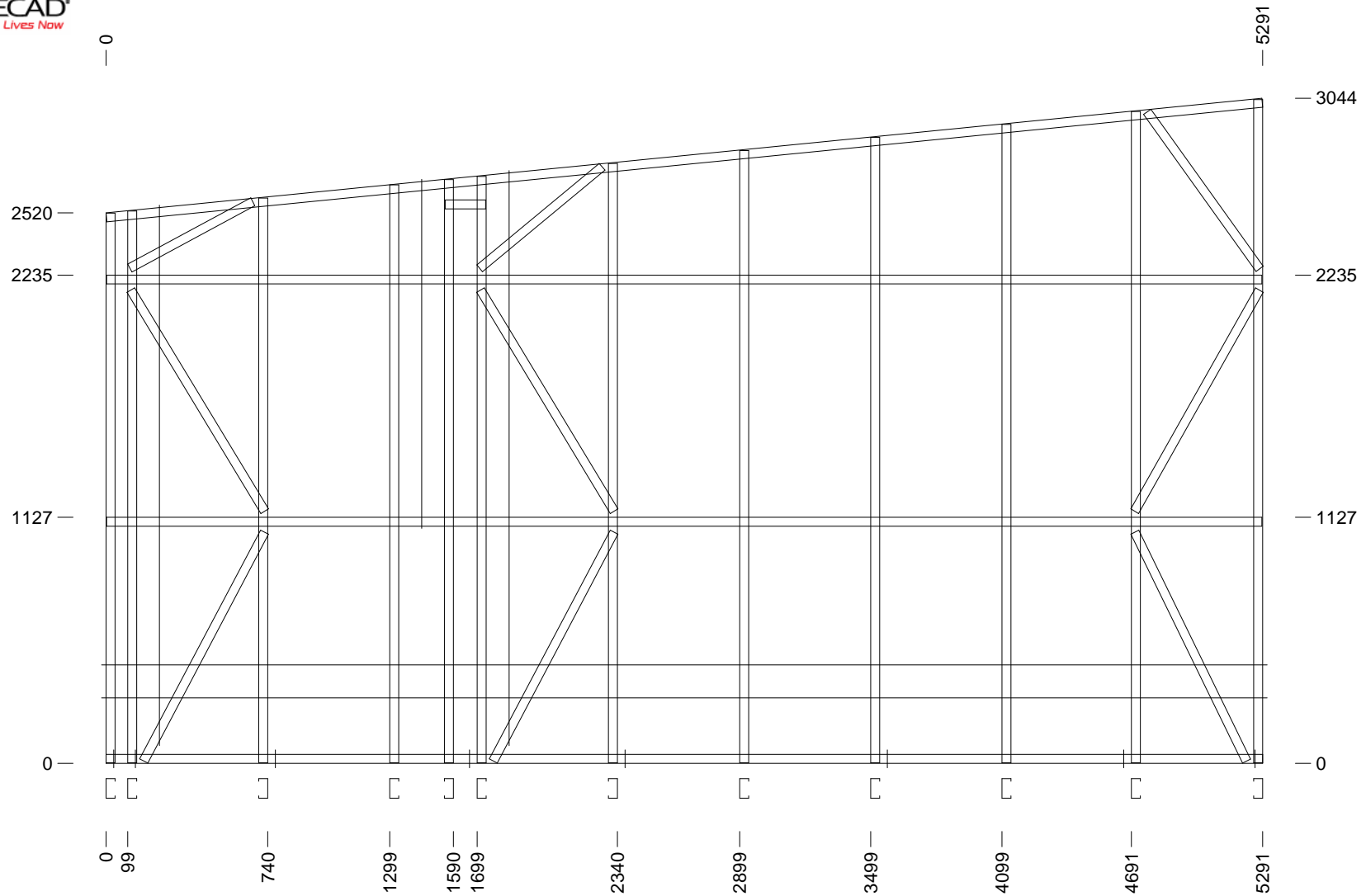
Sheet 2 of 19

Client Layouts

J/No. 180

89S41-095-350	1	1162mm	89S41-095-350	1	1166mm	89S41-095-350	2	1182mm	89S41-095-350	2	1185mm	89S41-095-350	1	185mm	89S41-095-350	1	2516mm
89S41-095-350		2526mm	89S41-095-350		2585mm	89S41-095-350		2645mm	89S41-095-350		2670mm	89S41-095-350		2684mm	89S41-095-350		2744mm
89S41-095-350		2803mm	89S41-095-350		2863mm	89S41-095-350		2922mm	89S41-095-350		2981mm	89S41-095-350		3036mm	89S41-095-350		5285mm
89S41-095-350		5291mm	89S41-095-350		5313mm	89S41-095-350		639mm	89S41-095-350		728mm	89S41-095-350		883mm			

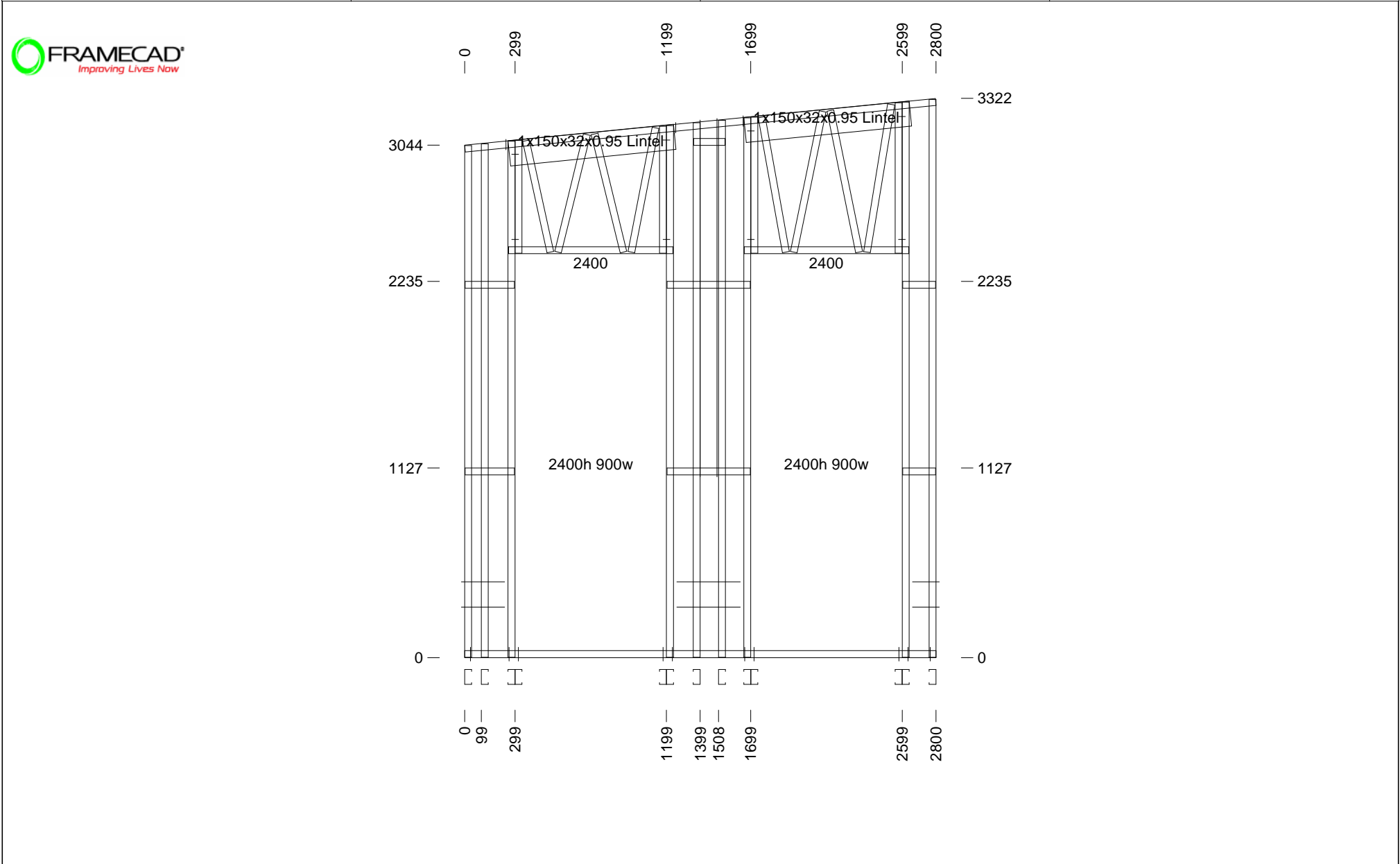
Assembly Weight	89.1kg	FRAMECAD 10g-19mm XDrive		
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<<< Joins L2 Quantity Required = 1 Mark as L3 Header Engineering = Passed Joins L4 >>>

150x32x0.95 Lintel	2	987mm	89S41-095-350	1	185mm	89S41-095-350	2	195mm	89S41-095-350	1	2800mm	89S41-095-350	1	2810mm
89S41-095-350		293mm	89S41-095-350		3040mm	89S41-095-350		3050mm	89S41-095-350		3066mm	89S41-095-350		3159mm
89S41-095-350		3175mm	89S41-095-350		3190mm	89S41-095-350		3205mm	89S41-095-350		3298mm	89S41-095-350		3314mm
89S41-095-350		494mm	89S41-095-350		669mm	89S41-095-350		678mm	89S41-095-350		718mm	89S41-095-350		723mm
89S41-095-350		752mm	89S41-095-350		754mm	89S41-095-350		808mm	89S41-095-350		814mm	89S41-095-350		854mm
89S41-095-350		859mm	89S41-095-350		889mm	89S41-095-350		893mm	89S41-095-350		976mm			

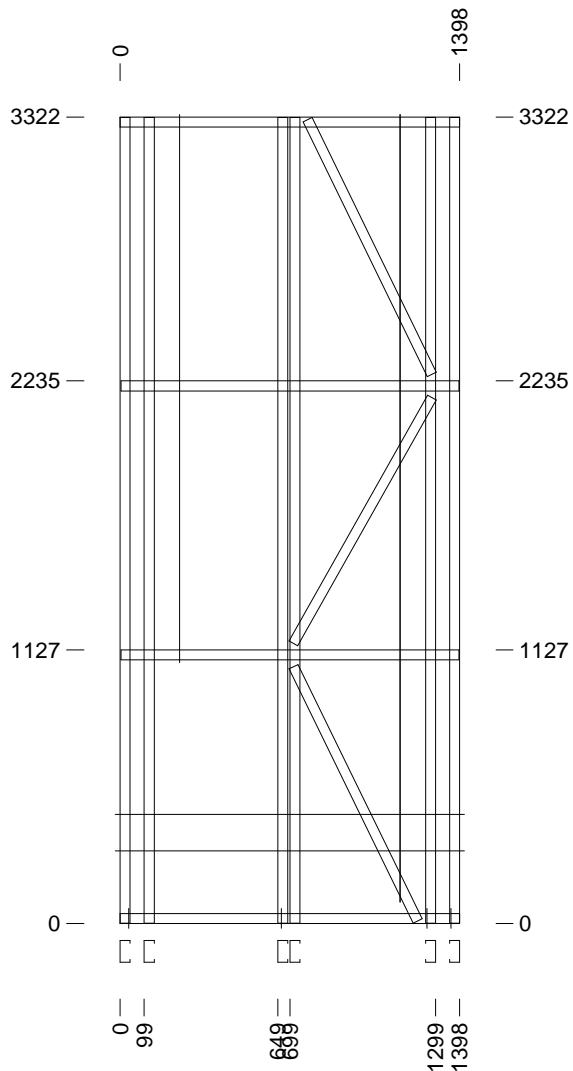
Assembly Weight	69.5kg	FRAMECAD 10g-16mm Flathead	FRAMECAD 10g-19mm XDrive
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<<< Joins L3 Quantity Required = 1 Mark as L4 Header Engineering = Passed Joins L5 >>>

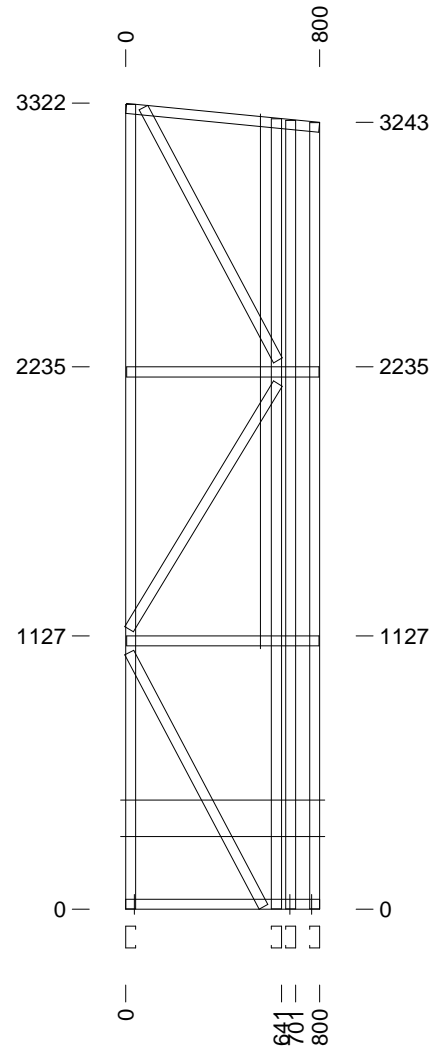
89S41-095-350	1	1162mm	89S41-095-350	1	1166mm	89S41-095-350	1	1167mm	89S41-095-350	2	1392mm	89S41-095-350	2	1398mm	89S41-095-350	6	3318mm
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Assembly Weight 40.6kg FRAMECAD 10g-19mm XDrive



89S41-095-350	1	1179mm	89S41-095-350	1	1182mm	89S41-095-350	1	1185mm	89S41-095-350	1	3239mm	89S41-095-350	1	3249mm	89S41-095-350	1	3255mm
89S41-095-350		3314mm	89S41-095-350		794mm	89S41-095-350		800mm									

Assembly Weight	27.7kg	FRAMECAD 10g-19mm XDrive
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<<< Joins L5

Quantity Required = 1 Mark as L6 Header Engineering = Passed

Joins L7 >>>

Company Name

Dwg School M

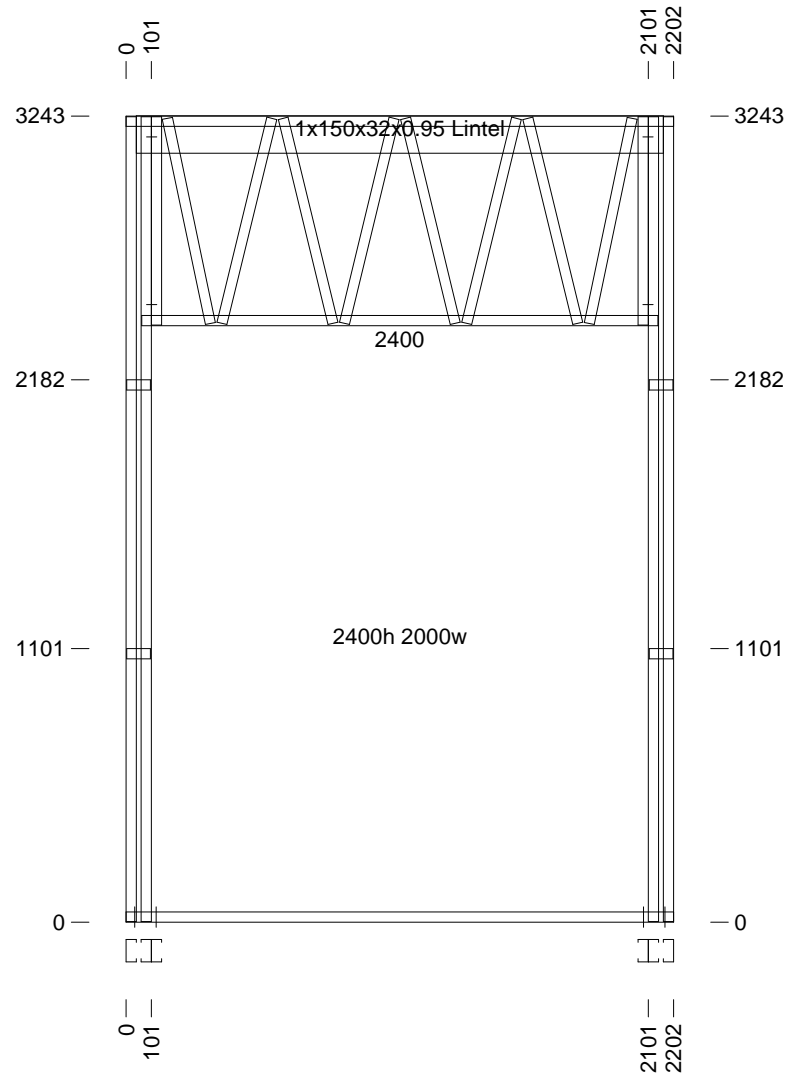
Sheet 6 of 19

Client Layouts

J/No. 180

150x32x0.95 Lintel 89S41-095-350	1	2120mm 842mm	89S41-095-350 89S41-095-350	1	2076mm 848mm	89S41-095-350 89S41-095-350	2	2202mm 95mm	89S41-095-350	4	3239mm	89S41-095-350	2	838mm
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Assembly Weight	42.7kg	FRAMECAD 10g-16mm Flathead	FRAMECAD 10g-19mm XDrive
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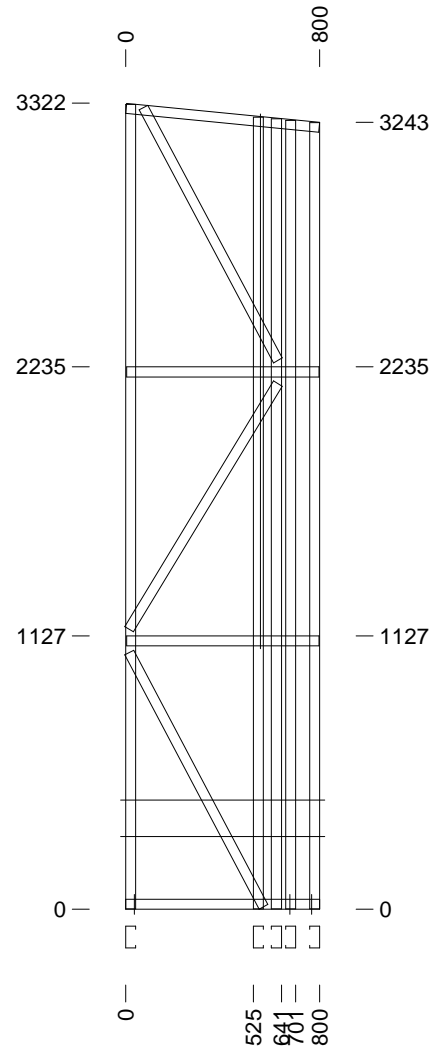
<<< Joins L8

Quantity Required = 1 Mark as L7 Header Engineering = Passed

Joins L6 >>>

89S41-095-350	1	1179mm	89S41-095-350	1	1182mm	89S41-095-350	1	1185mm	89S41-095-350	1	3239mm	89S41-095-350	1	3249mm	89S41-095-350	1	3255mm
89S41-095-350		3262mm	89S41-095-350		3314mm	89S41-095-350		794mm	89S41-095-350		800mm						

Assembly Weight	32.3kg	FRAMECAD 10g-19mm XDrive
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<<< Joins L9

Quantity Required = 1 Mark as L8 Header Engineering = Passed

Joins L7 >>>

Company Name

Dwg School M

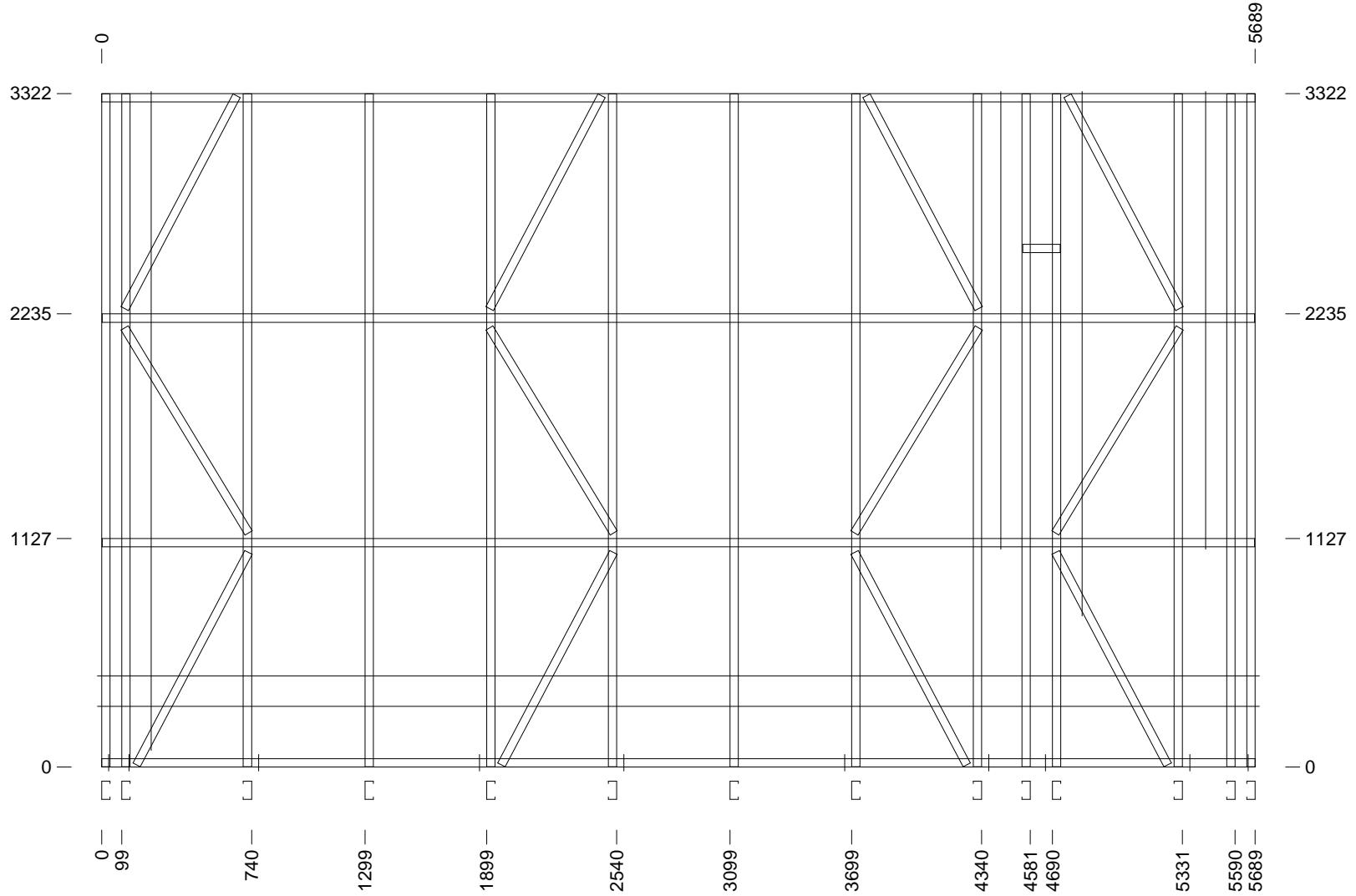
Sheet 8 of 19

Client Layouts

J/No. 180

89S41-095-350 89S41-095-350	4 1182mm 5683mm \varnothing	89S41-095-350 89S41-095-350	4 1185mm 5689mm \varnothing	89S41-095-350	4 1186mm	89S41-095-350	1 185mm	89S41-095-350	14 3318mm
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Assembly Weight 117.0kg FRAMECAD 10g-19mm XDrive



<<< Joins L10

Quantity Required = 1 Mark as L9 Header Engineering = Passed

Joins L8 >>>

Company Name

Dwg School M

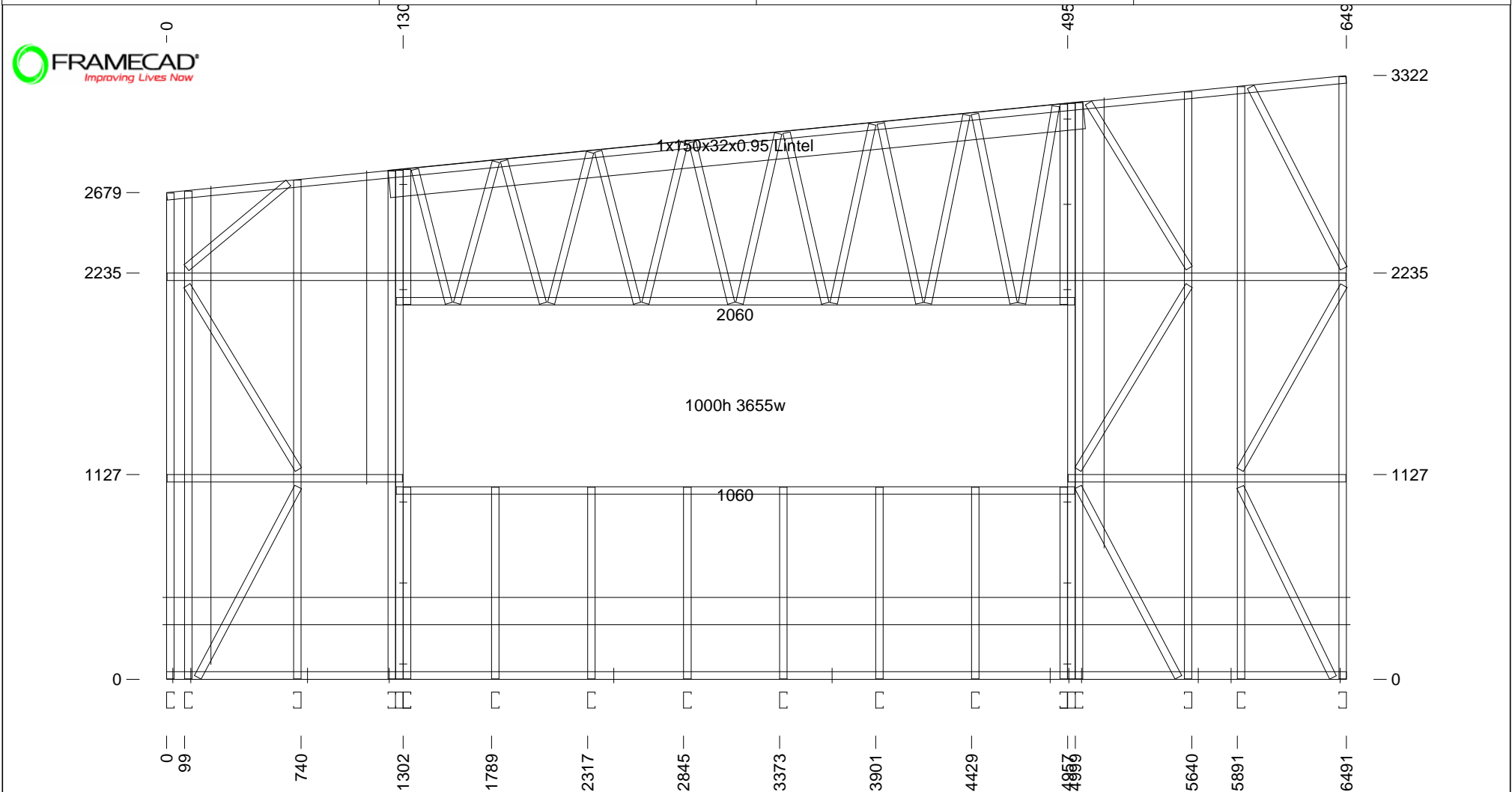
Sheet 9 of 19

Client Layouts

J/No. 180

150x32x0.95 Lintel	1	3839mm	89S41-095-350	1	1007mm	89S41-095-350	1	1012mm	89S41-095-350	8	1055mm	89S41-095-350	1	1058mm
89S41-095-350		1063mm	89S41-095-350		1064mm	89S41-095-350		1101mm	89S41-095-350		1121mm	89S41-095-350		1162mm
89S41-095-350		1166mm	89S41-095-350		1182mm	89S41-095-350		1185mm	89S41-095-350		1296mm	89S41-095-350		1527mm
89S41-095-350		2675mm	89S41-095-350		2684mm	89S41-095-350		2744mm	89S41-095-350		2795mm	89S41-095-350		2800mm
89S41-095-350		3166mm	89S41-095-350		3170mm	89S41-095-350		3230mm	89S41-095-350		3259mm	89S41-095-350		3314mm
89S41-095-350		3731mm	89S41-095-350		6485mm	89S41-095-350		6491mm	89S41-095-350		6519mm	89S41-095-350		728mm
89S41-095-350		743mm	89S41-095-350		759mm	89S41-095-350		808mm	89S41-095-350		813mm	89S41-095-350		857mm
89S41-095-350		862mm	89S41-095-350		907mm	89S41-095-350		912mm	89S41-095-350		957mm	89S41-095-350		962mm

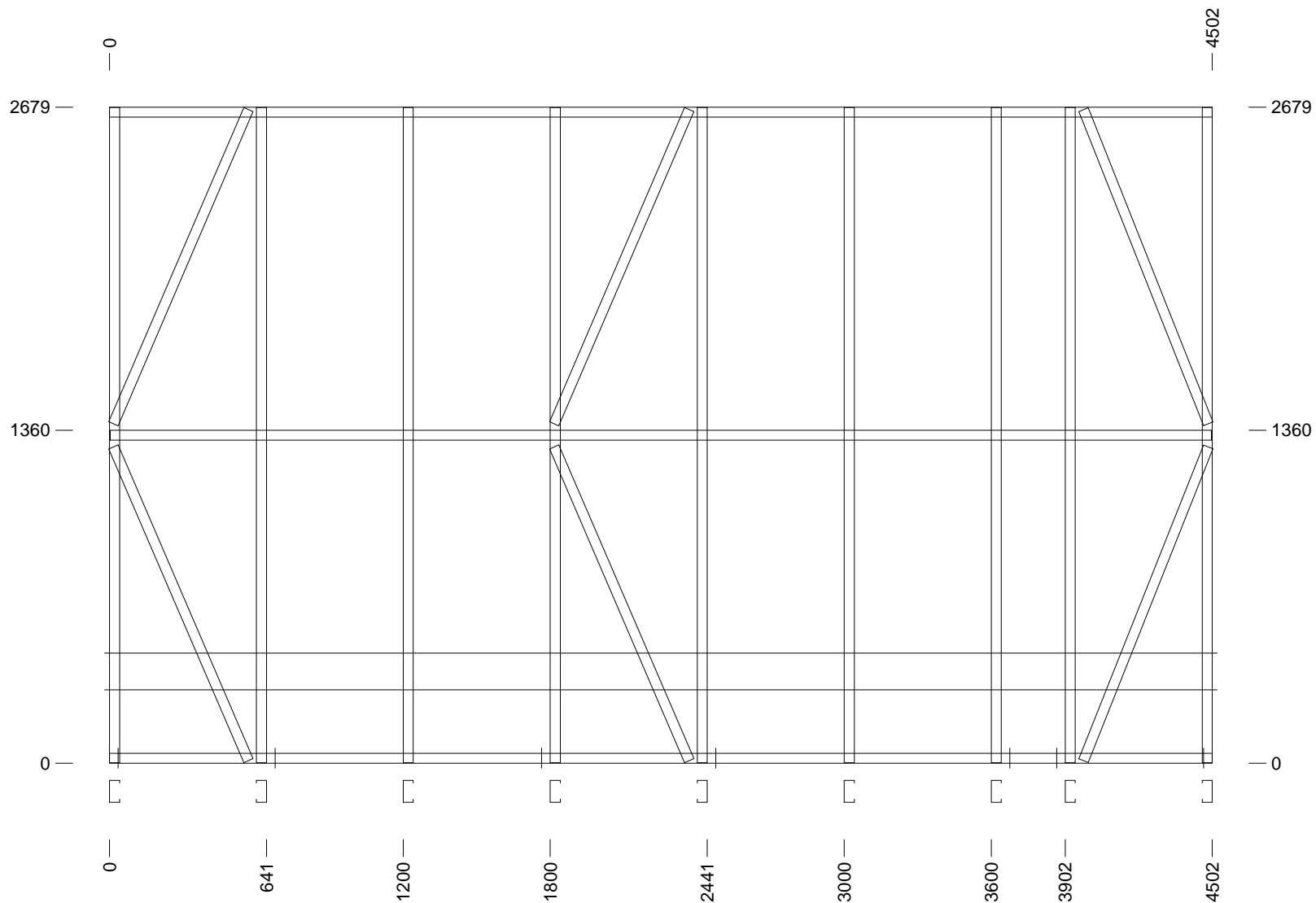
Assembly Weight 135.7kg FRAMECAD 10g-16mm Flathead FRAMECAD 10g-19mm XDrive



<<< Joins L11 Quantity Required = 1 Mark as L10 Header Engineering = Passed Joins L9 >>>

89S41-095-350	2 1380mm	89S41-095-350	4 1395mm	89S41-095-350	9 2675mm	89S41-095-350	1 4496mm	89S41-095-350	2 4502mm
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Assembly Weight	64.3kg	FRAMECAD 10g-19mm XDrive		
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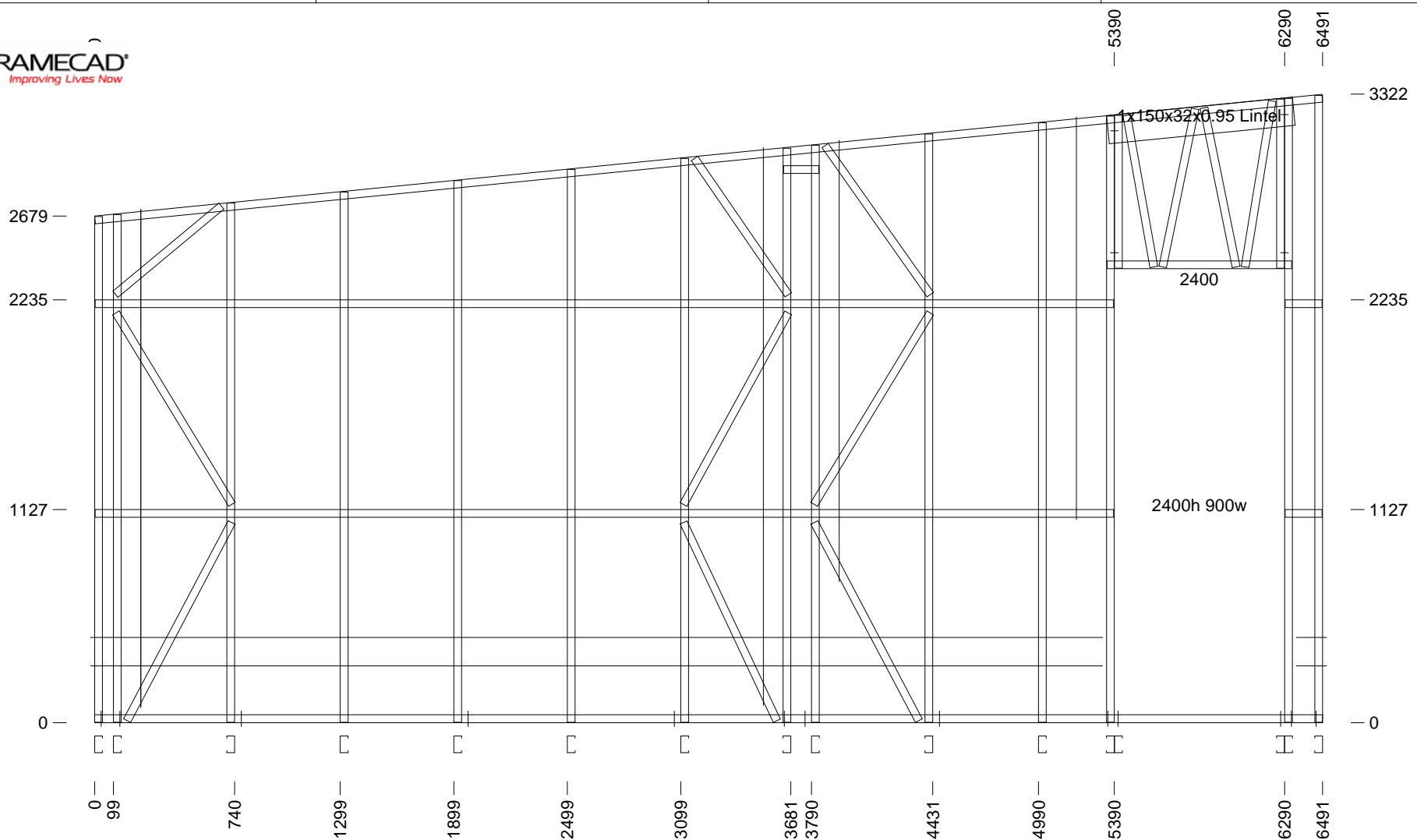
<<< Joins L10

Quantity Required = 1 Mark as L11 Header Engineering = Passed

Joins L12 >>>

150x32x0.95 Lintel	1	987mm	89S41-095-350	1	1153mm	89S41-095-350	1	1159mm	89S41-095-350	2	1182mm	89S41-095-350	2	1185mm
89S41-095-350		185mm	89S41-095-350		195mm	89S41-095-350		2675mm	89S41-095-350		2684mm	89S41-095-350		2744mm
89S41-095-350		2803mm	89S41-095-350		2863mm	89S41-095-350		2922mm	89S41-095-350		2982mm	89S41-095-350		3035mm
89S41-095-350		3050mm	89S41-095-350		3110mm	89S41-095-350		3169mm	89S41-095-350		3205mm	89S41-095-350		3298mm
89S41-095-350		3314mm	89S41-095-350		5384mm	89S41-095-350		6491mm	89S41-095-350		6519mm	89S41-095-350		728mm
89S41-095-350		808mm	89S41-095-350		814mm	89S41-095-350		854mm	89S41-095-350		859mm	89S41-095-350		874mm
89S41-095-350		889mm	89S41-095-350		893mm	89S41-095-350		964mm	89S41-095-350		976mm	89S41-095-350		

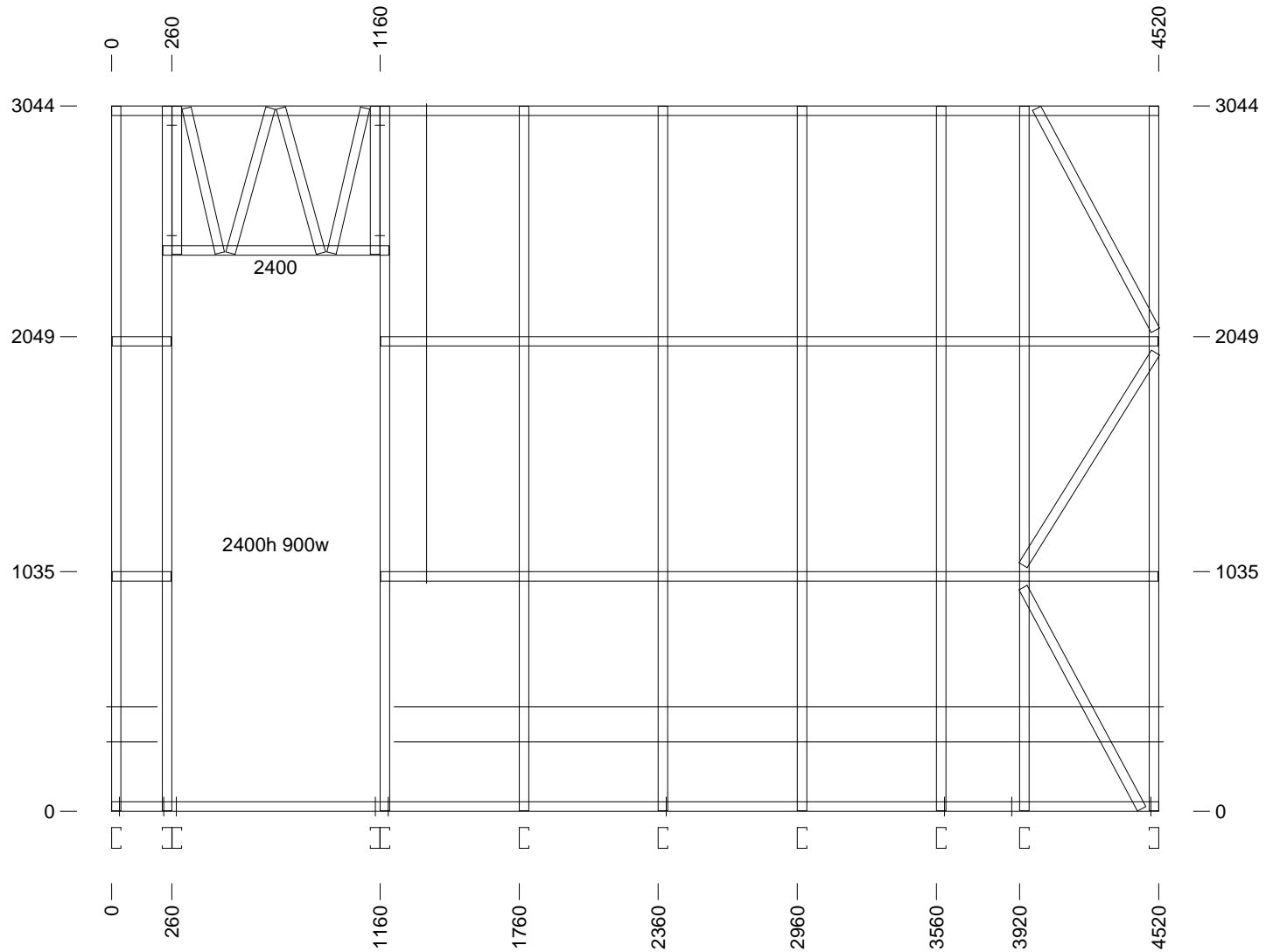
Assembly Weight	116.1kg	FRAMECAD 10g-16mm Flathead	FRAMECAD 10g-19mm XDrive
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<<< Joins L19 Quantity Required = 1 Mark as L12 Header Engineering = Passed Joins L9 >>>

89S41-095-350	1	1081mm	89S41-095-350	2	1085mm	89S41-095-350	2	254mm	89S41-095-350	9	3040mm	89S41-095-350	2	3354mm	89S41-095-350	2	4520mm
89S41-095-350		639mm	89S41-095-350		642mm	89S41-095-350		648mm	89S41-095-350		976mm						

Assembly Weight 72.4kg FRAMECAD 10g-19mm XDrive



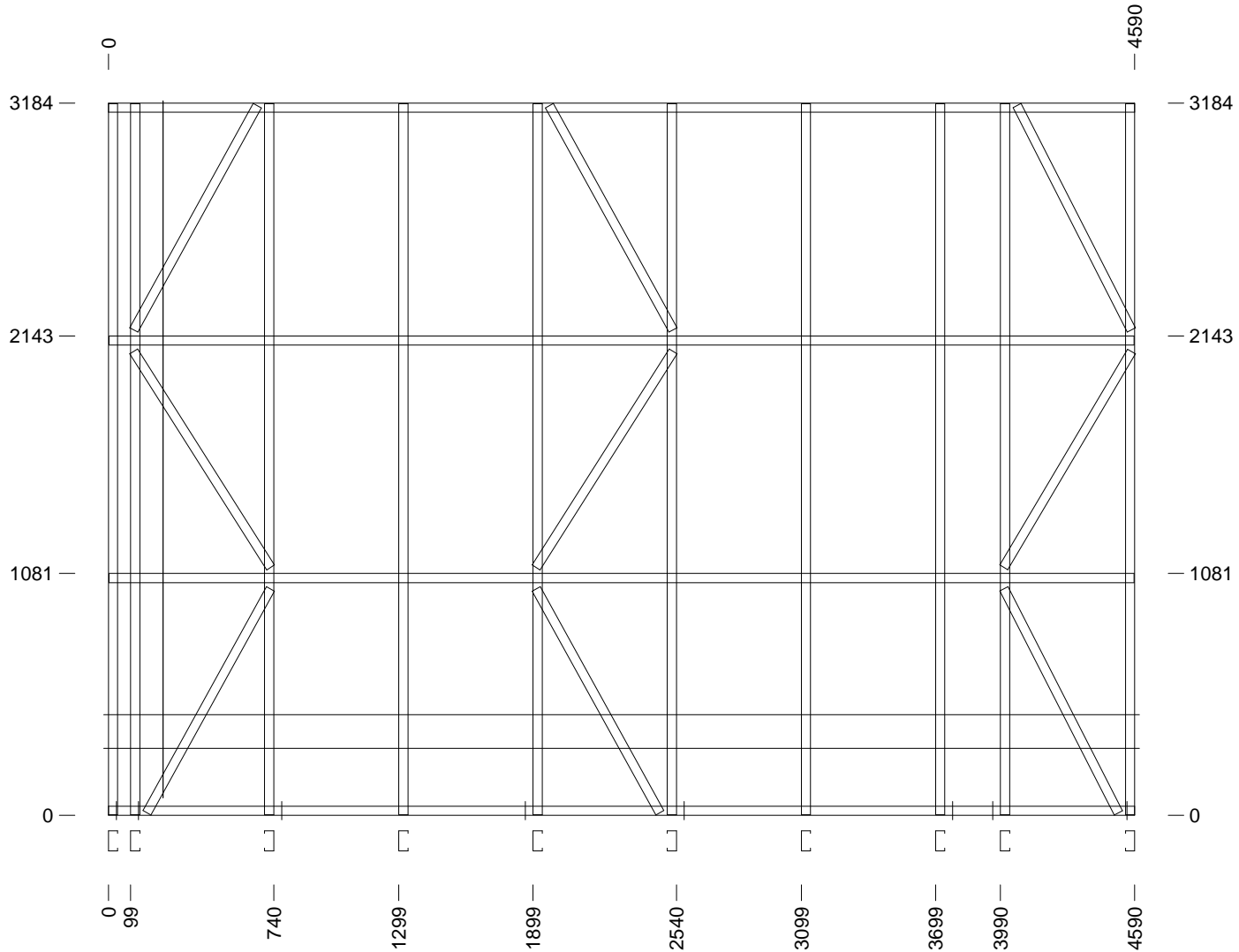
<<< Joins L12

Quantity Required = 1 Mark as L13 Header Engineering = Passed

Joins L4 >>>

89S41-095-350 89S41-095-350	1 3180mm	89S41-095-350 89S41-095-350	1 4584mm	89S41-095-350 89S41-095-350	1 4590mm	89S41-095-350	2 1143mm	89S41-095-350	4 1145mm
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Assembly Weight 84.5kg FRAMECAD 10g-19mm XDrive



<<< Joins L15

Quantity Required = 1 Mark as L14 Header Engineering = Passed

Joins L4 >>>

Company Name

Dwg School M

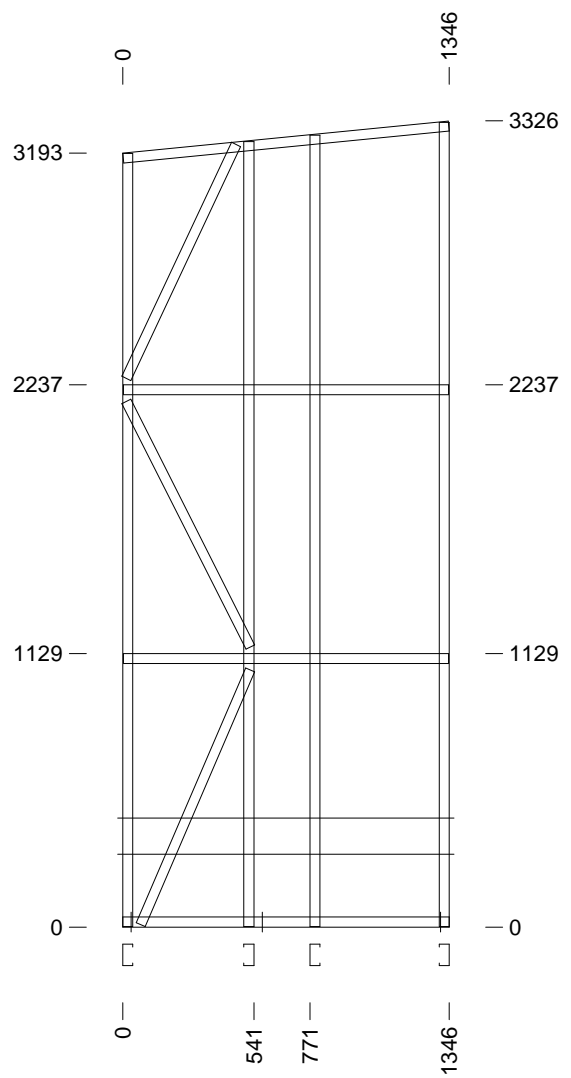
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Client Layouts

J/No. 180

89S41-095-350	1	1065mm	89S41-095-350	1	1134mm	89S41-095-350	1	1144mm	89S41-095-350	2	1340mm	89S41-095-350	1	1346mm	89S41-095-350	1	1349mm
89S41-095-350		3189mm	89S41-095-350		3238mm	89S41-095-350		3265mm	89S41-095-350		3318mm						

Assembly Weight	30.4kg	FRAMECAD 10g-19mm XDrive
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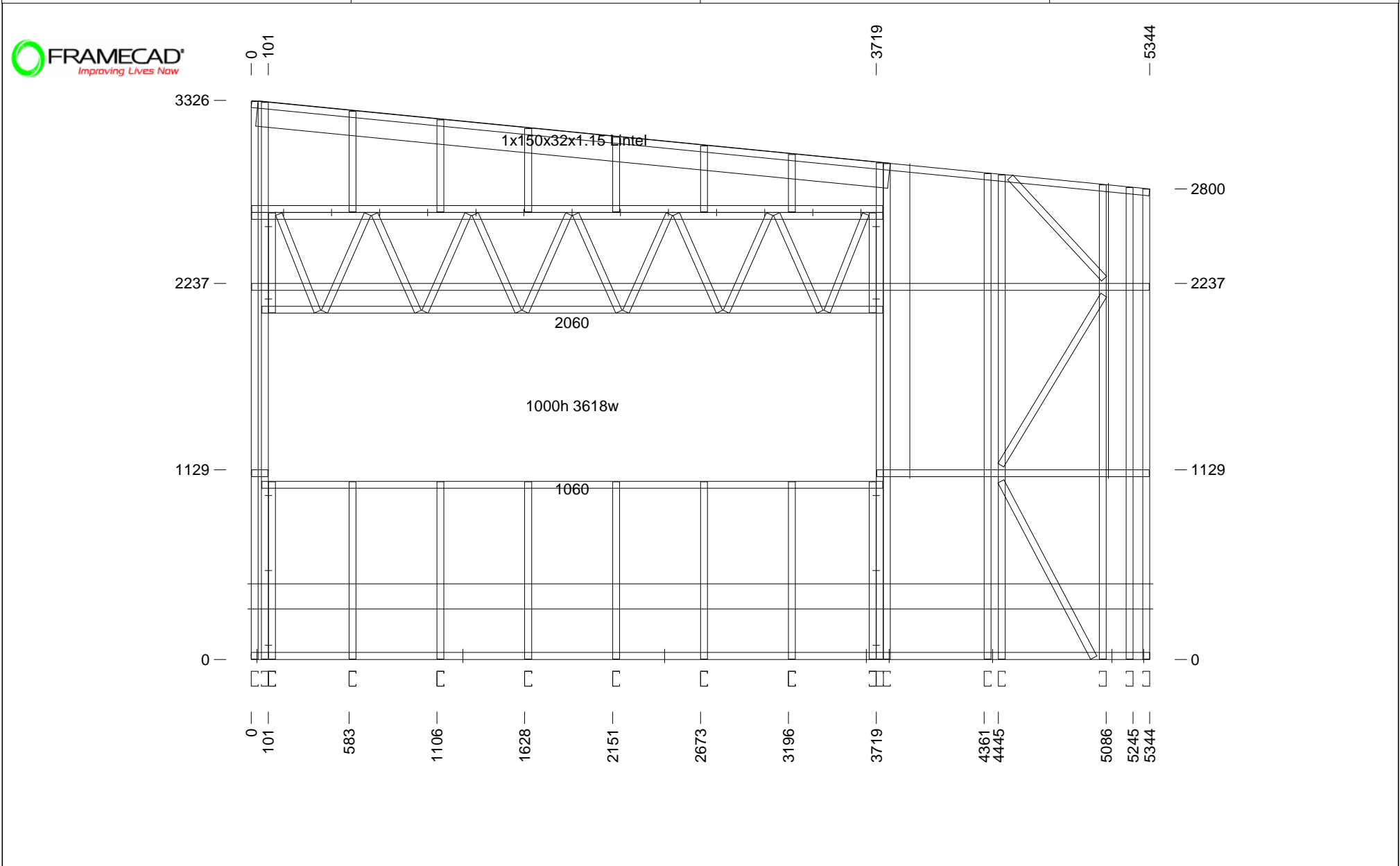
<<< Joins L14

Quantity Required = 1 Mark as L15 Header Engineering = Passed

Joins L16 >>>

150x32x1.15 Lintel	1	3778mm	89S41-095-350	8	1055mm	89S41-095-350	1	1182mm	89S41-095-350	1	1187mm	89S41-095-350	1	1620mm
89S41-095-350		2796mm	89S41-095-350		2806mm	89S41-095-350		2821mm	89S41-095-350		2881mm	89S41-095-350		2889mm
89S41-095-350		2948mm	89S41-095-350		2952mm	89S41-095-350		3312mm	89S41-095-350		3318mm	89S41-095-350		341mm
89S41-095-350		3694mm	89S41-095-350		3754mm	89S41-095-350		393mm	89S41-095-350		444mm	89S41-095-350		496mm
89S41-095-350		5338mm	89S41-095-350		5344mm	89S41-095-350		5366mm	89S41-095-350		547mm	89S41-095-350		594mm
89S41-095-350		599mm	89S41-095-350		624mm	89S41-095-350		634mm	89S41-095-350		821mm	89S41-095-350		95mm

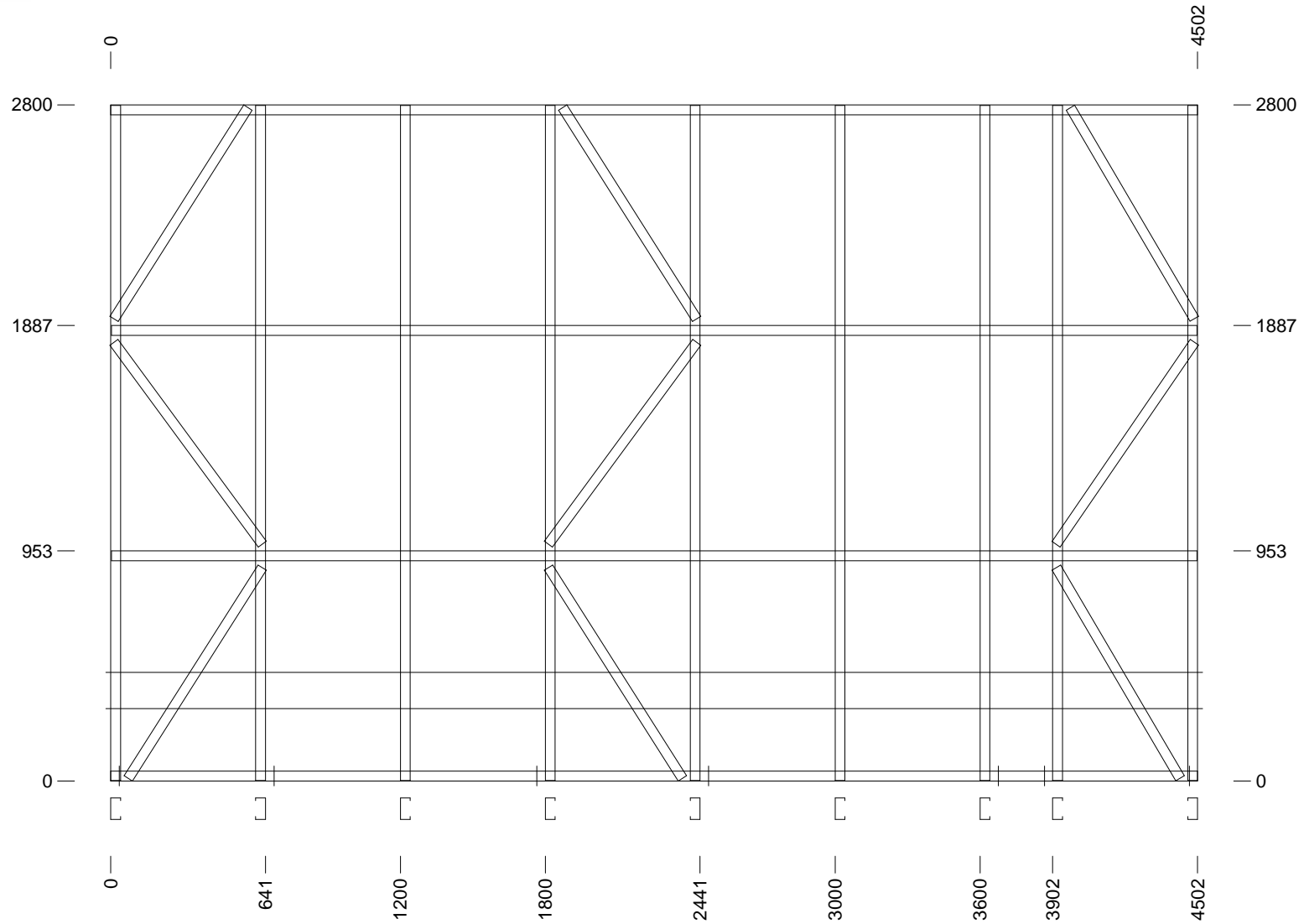
Assembly Weight	122.3kg	FRAMECAD 10g-16mm Flathead	FRAMECAD 10g-19mm HWH Hex	FRAMECAD 10g-19mm XDrive
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<<< Joins L15 Quantity Required = 1 Mark as L16 Header Engineering = Passed Joins L17 >>>

89S41-095-350 89S41-095-350	1 4496mm \varnothing	1013mm	89S41-095-350 89S41-095-350	2 4502mm \varnothing	1014mm	89S41-095-350	2	1034mm	89S41-095-350	2	1035mm	89S41-095-350	2	1038mm	89S41-095-350	9	2796mm
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Assembly Weight	73.4kg	FRAMECAD 10g-19mm XDrive
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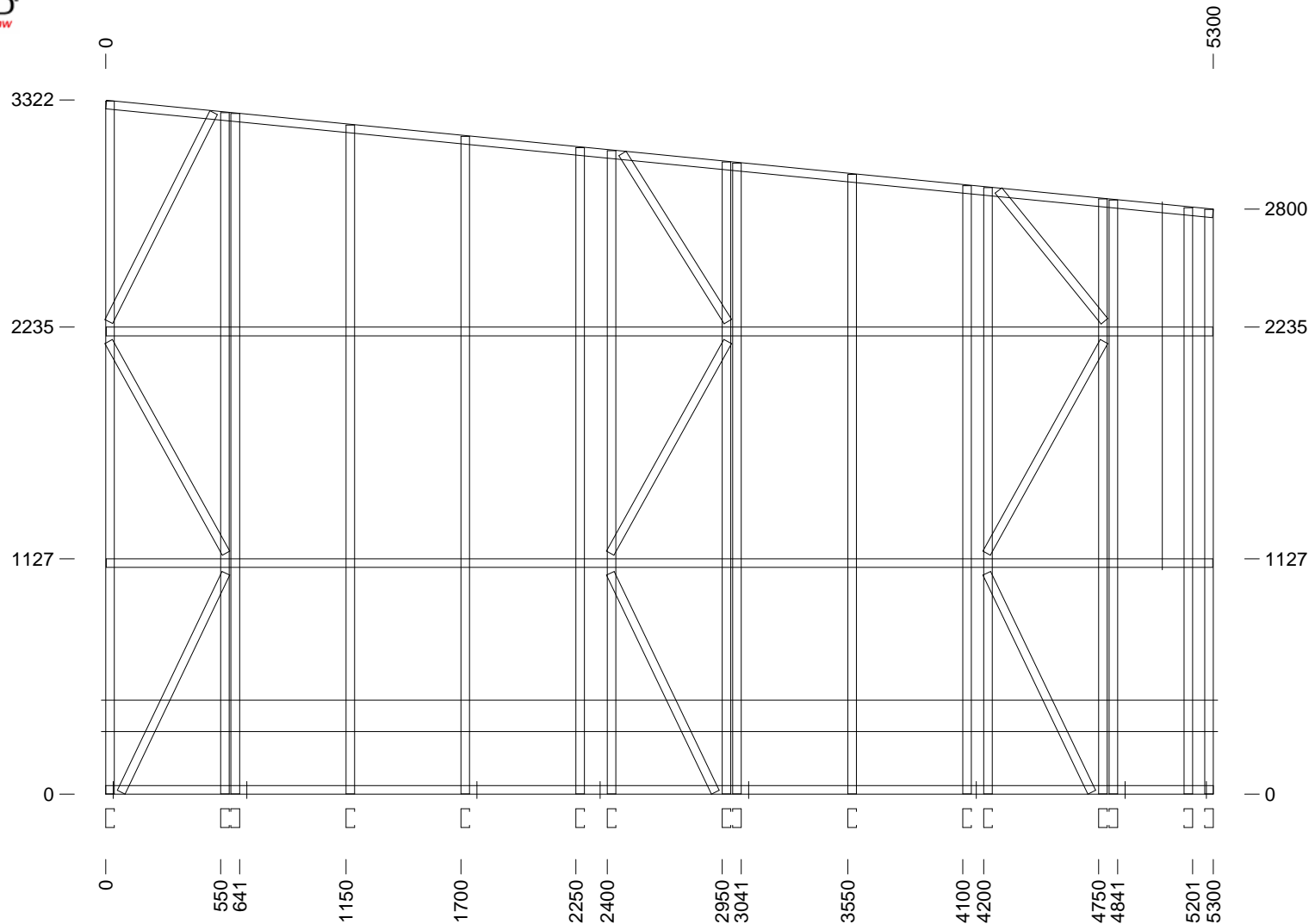
<<< Joins L18

Quantity Required = 1 Mark as L17 Header Engineering = Passed

Joins L16 >>>

89S41-095-350	1	1118mm	89S41-095-350	3	1157mm	89S41-095-350	3	1163mm	89S41-095-350	1	2796mm	89S41-095-350	1	2806mm	89S41-095-350	1	2841mm
89S41-095-350		2846mm	89S41-095-350		2900mm	89S41-095-350		2910mm	89S41-095-350		2964mm	89S41-095-350		3018mm	89S41-095-350		3023mm
89S41-095-350		3078mm	89S41-095-350		3092mm	89S41-095-350		3147mm	89S41-095-350		3201mm	89S41-095-350		3255mm	89S41-095-350		3260mm
89S41-095-350		3314mm	89S41-095-350		5294mm	89S41-095-350		5300mm	89S41-095-350		5322mm	89S41-095-350		805mm	89S41-095-350		949mm

Assembly Weight	111.3kg	FRAMECAD 10g-19mm XDrive
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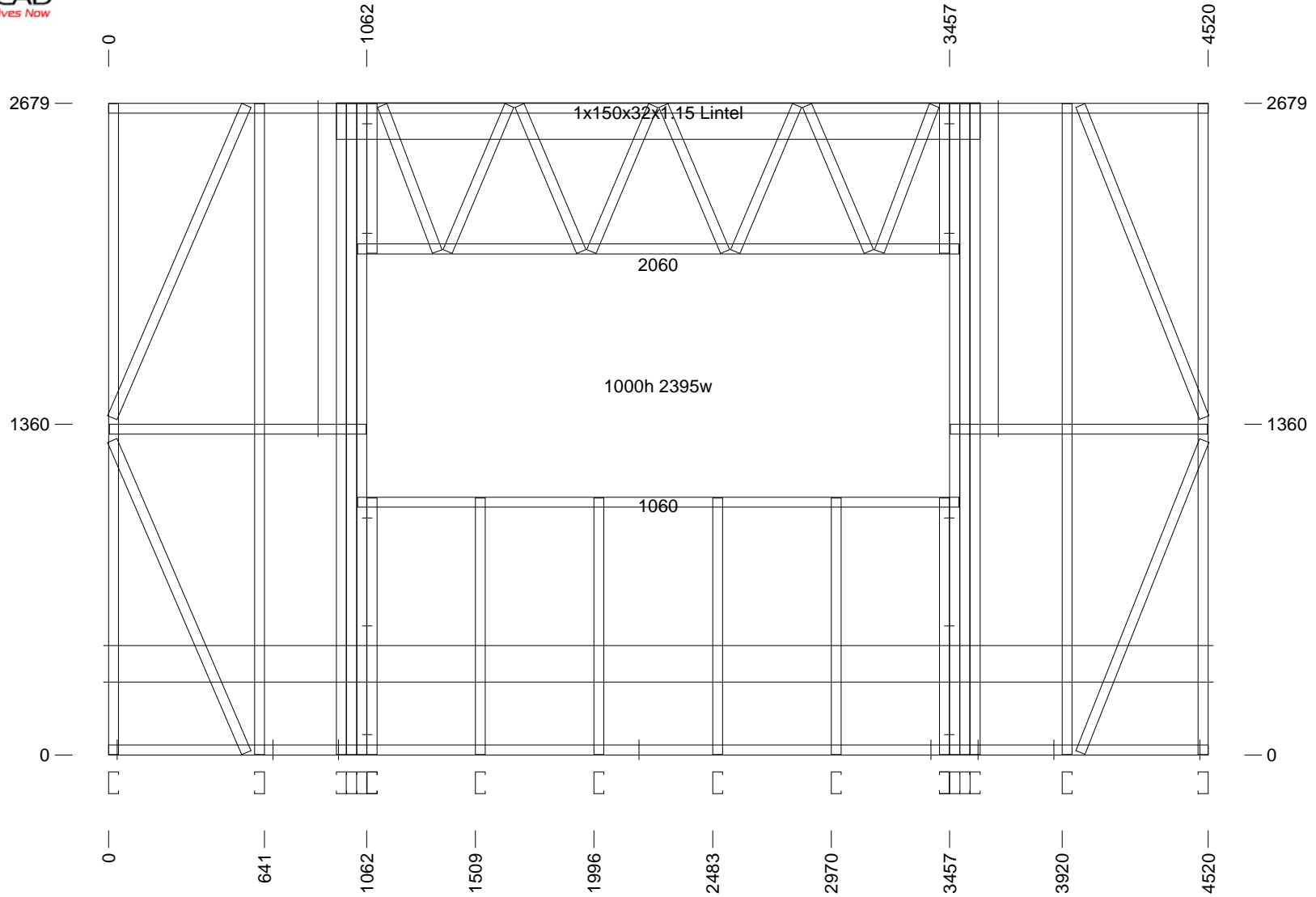
<<< Joins L5

Quantity Required = 1 Mark as L18 Header Engineering = Passed

Joins L17 >>>

150x32x1.15 Lintel 89S41-095-350 89S41-095-350	1 2645mm 1395mm 641mm	89S41-095-350 89S41-095-350 89S41-095-350	6 1055mm 2471mm 651mm	89S41-095-350 89S41-095-350	1 1056mm 2675mm	89S41-095-350 89S41-095-350	1 1057mm 4520mm	89S41-095-350 89S41-095-350	2 1380mm 614mm
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Assembly Weight	90.2kg	FRAMECAD 10g-16mm Flathead	FRAMECAD 10g-19mm XDrive
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<<< Joins L12

Quantity Required = 1 Mark as L19 Header Engineering = Passed

Joins L3 >>>

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	1.036 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	0.875 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.875 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	0.000 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	0.875 kN/m	Centroid Top	44.02 mm
Snow Load (S)	3.500 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	2.408 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	1.095 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.314 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	7198 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	6357 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	2780 mm	Shear Capacity ΦvVn	9.46 kN
1.2G + 1.6P1	9000 mm	Tension Capacity ΦtTn	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	728 mm	Compression Capacity ΦcPno	33.08 kN
0.9G + 1.0Wu + 1.0Wh	853 mm	Compression Capacity ΦcPn	19.03 kN
0.42Wh	1026 mm	Bending Capacity ΦbMnxo-	1438.05 Nm
P2	1664 mm	Bending Capacity ΦbMnx-	1265.51 Nm
Design Results:		Bending Capacity ΦbMnxo	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity ΦbMnx	1265.51 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	2812 mm		
Nominal Noggin Spacing	1127 mm		
Maximum Nominal Stud Spacing	1500 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	%		
Manually Altered	Yes		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	3.378 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	3.750 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.625 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	3.750 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	4.375 kN/m	Centroid Top	44.02 mm
Snow Load (S)	1.875 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	1.720 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	0.782 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.277 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	2034 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1629 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1657 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	3983 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	792 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	967 mm	Compression Capacity $\Phi_c P_n$	17.90 kN
0.42Wh	1496 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	2426 mm	Bending Capacity $\Phi_b M_{nx}$	1202.69 Nm
Design Results:		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity $\Phi_b M_{nx}$	1202.69 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	2480 mm		
Nominal Noggin Spacing	1280 mm		
Maximum Nominal Stud Spacing	775 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	77 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	Internal	Tensile Strength	420 MPa
Dead Load (G)	4.729 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	5.250 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.875 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	5.250 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	6.125 kN/m	Centroid Top	44.02 mm
Snow Load (S)	2.625 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	2.408 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	1.095 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	0.500 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.612 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	1427 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1143 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1162 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	2788 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	1087 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	2190 mm	Compression Capacity $\Phi_c P_n$	19.32 kN
0.42Wh	3320 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	1795 mm	Bending Capacity $\Phi_b M_{nx}$	1265.51 Nm
Design Results:		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity $\Phi_b M_{nx}$	1265.51 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	2742 mm		
Nominal Noggin Spacing	1127 mm		
Maximum Nominal Stud Spacing	1075 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	56 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	Internal	Tensile Strength	420 MPa
Dead Load (G)	4.729 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	5.250 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.875 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	5.250 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	6.125 kN/m	Centroid Top	44.02 mm
Snow Load (S)	2.625 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	2.408 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	1.095 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	0.500 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.700 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	1427 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1143 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1162 mm	Shear Capacity ΦvVn	9.46 kN
1.2G + 1.6P1	2788 mm	Tension Capacity ΦtTn	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	987 mm	Compression Capacity ΦcPno	33.08 kN
0.9G + 1.0Wu + 1.0Wh	1798 mm	Compression Capacity ΦcPn	17.58 kN
0.42Wh	2205 mm	Bending Capacity ΦbMnxo-	1438.05 Nm
P2	1192 mm	Bending Capacity ΦbMnx-	1265.51 Nm
Design Results:		Bending Capacity ΦbMnxo	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity ΦbMnx	1265.51 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	3143 mm		
Nominal Noggin Spacing	1127 mm		
Maximum Nominal Stud Spacing	975 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	62 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	3.196 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	3.450 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.650 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	3.450 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	4.100 kN/m	Centroid Top	44.02 mm
Snow Load (S)	1.725 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	1.789 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	0.813 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.365 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	2112 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1721 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1750 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	4125 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	551 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	601 mm	Compression Capacity $\Phi_c P_n$	16.91 kN
0.42Wh	646 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	1047 mm	Bending Capacity $\Phi_b M_{nx}$	1265.51 Nm
Design Results:		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity $\Phi_b M_{nx}$	1265.51 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	3282 mm		
Nominal Noggin Spacing	1127 mm		
Maximum Nominal Stud Spacing	550 mm		
Actual Nominal Stud Spacing	550 mm		
Stud Engineering Compliance	100 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	Internal	Tensile Strength	420 MPa
Dead Load (G)	3.196 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	3.450 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.650 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	3.450 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	4.100 kN/m	Centroid Top	44.02 mm
Snow Load (S)	1.725 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	1.789 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	0.813 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	0.500 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.722 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	2053 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1673 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1702 mm	Shear Capacity ΦvVn	9.46 kN
1.2G + 1.6P1	3998 mm	Tension Capacity ΦtTn	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	1124 mm	Compression Capacity ΦcPno	33.08 kN
0.9G + 1.0Wu + 1.0Wh	1699 mm	Compression Capacity ΦcPn	17.09 kN
0.42Wh	2008 mm	Bending Capacity ΦbMnxo-	1438.05 Nm
P2	1086 mm	Bending Capacity ΦbMnx-	1265.51 Nm
Design Results:		Bending Capacity ΦbMnxo	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity ΦbMnx	1265.51 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	3243 mm		
Nominal Noggin Spacing	1127 mm		
Maximum Nominal Stud Spacing	1075 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	56 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	3.196 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	3.450 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.650 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	3.450 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	4.100 kN/m	Centroid Top	44.02 mm
Snow Load (S)	1.725 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	1.789 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	0.813 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.357 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	2115 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1723 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1753 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	4132 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	562 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	612 mm	Compression Capacity $\Phi_c P_n$	17.61 kN
0.42Wh	695 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	1126 mm	Bending Capacity $\Phi_b M_{nx}$	1275.37 Nm
		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
		Bending Capacity $\Phi_b M_{nx}$	1275.37 Nm
Design Results:			
Stud Material	89S41-095-350		
Stud Spacing Type	Single Absolute		
Nominal Wall Height	3203 mm		
Nominal Noggin Spacing	1101 mm		
Maximum Nominal Stud Spacing	550 mm		
Actual Nominal Stud Spacing	550 mm		
Stud Engineering Compliance	100 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	3.196 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	3.450 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.650 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	3.450 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	4.100 kN/m	Centroid Top	44.02 mm
Snow Load (S)	1.725 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	1.789 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	0.813 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.361 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	2053 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1673 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1702 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	3998 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	541 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	591 mm	Compression Capacity $\Phi_c P_n$	17.09 kN
0.42Wh	669 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	1086 mm	Bending Capacity $\Phi_b M_{nx}$	1265.51 Nm
Design Results:		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity $\Phi_b M_{nx}$	1265.51 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	3243 mm		
Nominal Noggin Spacing	1127 mm		
Maximum Nominal Stud Spacing	525 mm		
Actual Nominal Stud Spacing	525 mm		
Stud Engineering Compliance	100 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	3.407 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	3.750 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.650 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	3.750 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	4.400 kN/m	Centroid Top	44.02 mm
Snow Load (S)	1.875 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	1.789 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	0.813 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.365 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	1980 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1595 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1622 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	3870 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	526 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	576 mm	Compression Capacity $\Phi_c P_n$	16.91 kN
0.42Wh	646 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	1047 mm	Bending Capacity $\Phi_b M_{nx}$	1265.51 Nm
		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
		Bending Capacity $\Phi_b M_{nx}$	1265.51 Nm
Design Results:			
Stud Material	89S41-095-350		
Stud Spacing Type	Single Absolute		
Nominal Wall Height	3282 mm		
Nominal Noggin Spacing	1127 mm		
Maximum Nominal Stud Spacing	800 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	%		
Manually Altered	Yes		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	1.206 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	1.000 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	1.000 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	0.000 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	1.000 kN/m	Centroid Top	44.02 mm
Snow Load (S)	0.000 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	2.752 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	1.251 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.330 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	6037 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	9000 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	9000 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	9000 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	695 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	770 mm	Compression Capacity $\Phi_c P_n$	18.40 kN
0.42Wh	880 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	1427 mm	Bending Capacity $\Phi_b M_{nx}$	1265.51 Nm
Design Results:		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity $\Phi_b M_{nx}$	1265.51 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	2960 mm		
Nominal Noggin Spacing	1127 mm		
Maximum Nominal Stud Spacing	1500 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	%		
Manually Altered	Yes		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	2.972 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	3.300 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.550 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	3.300 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	3.850 kN/m	Centroid Top	44.02 mm
Snow Load (S)	1.650 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	1.514 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	0.688 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.295 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	2091 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1674 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1704 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	4047 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	718 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	818 mm	Compression Capacity $\Phi_c P_n$	16.20 kN
0.42Wh	1242 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	2014 mm	Bending Capacity $\Phi_b M_{nx}$	1166.53 Nm
		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
		Bending Capacity $\Phi_b M_{nx}$	1166.53 Nm
Design Results:			
Stud Material	89S41-095-350		
Stud Spacing Type	Single Absolute		
Nominal Wall Height	2639 mm		
Nominal Noggin Spacing	1360 mm		
Maximum Nominal Stud Spacing	700 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	86 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	Internal	Tensile Strength	420 MPa
Dead Load (G)	5.193 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	5.700 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	1.000 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	5.700 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	6.700 kN/m	Centroid Top	44.02 mm
Snow Load (S)	2.850 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	2.752 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	1.251 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	0.500 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.660 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	1360 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1097 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1116 mm	Shear Capacity ΦvVn	9.46 kN
1.2G + 1.6P1	2670 mm	Tension Capacity ΦtTn	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	1020 mm	Compression Capacity ΦcPno	33.08 kN
0.9G + 1.0Wu + 1.0Wh	1984 mm	Compression Capacity ΦcPn	18.40 kN
0.42Wh	2639 mm	Bending Capacity ΦbMnxo-	1438.05 Nm
P2	1427 mm	Bending Capacity ΦbMnx-	1265.51 Nm
Design Results:		Bending Capacity ΦbMnxo	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity ΦbMnx	1265.51 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	2960 mm		
Nominal Noggin Spacing	1127 mm		
Maximum Nominal Stud Spacing	1000 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	60 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	Internal	Tensile Strength	420 MPa
Dead Load (G)	1.621 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	1.800 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.300 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	1.800 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	2.100 kN/m	Centroid Top	44.02 mm
Snow Load (S)	0.900 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	0.826 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	0.375 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	0.500 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.670 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	4581 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	3669 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	3733 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	9000 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	1752 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	2127 mm	Compression Capacity $\Phi_c P_n$	19.36 kN
0.42Wh	2526 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	1365 mm	Bending Capacity $\Phi_b M_{nx}$	1299.34 Nm
Design Results:		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity $\Phi_b M_{nx}$	1299.34 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	3004 mm		
Nominal Noggin Spacing	1035 mm		
Maximum Nominal Stud Spacing	1350 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	44 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	Internal	Tensile Strength	420 MPa
Dead Load (G)	3.378 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	3.750 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.625 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	3.750 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	4.375 kN/m	Centroid Top	44.02 mm
Snow Load (S)	1.875 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	1.720 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	0.782 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	0.500 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.700 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	2059 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1649 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1678 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	4038 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	1175 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	1800 mm	Compression Capacity $\Phi_c P_n$	18.13 kN
0.42Wh	2203 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	1191 mm	Bending Capacity $\Phi_b M_{nx}$	1282.79 Nm
		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
		Bending Capacity $\Phi_b M_{nx}$	1282.79 Nm
Design Results:			
Stud Material	89S41-095-350		
Stud Spacing Type	Single Absolute		
Nominal Wall Height	3144 mm		
Nominal Noggin Spacing	1081 mm		
Maximum Nominal Stud Spacing	1150 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	52 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	1.036 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	0.875 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.875 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	0.000 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	0.875 kN/m	Centroid Top	44.02 mm
Snow Load (S)	3.500 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	2.408 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	1.095 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.359 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	6501 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	5741 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	2511 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	9000 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	575 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	650 mm	Compression Capacity $\Phi_c P_n$	17.18 kN
0.42Wh	684 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	1109 mm	Bending Capacity $\Phi_b M_{nx}$	1264.74 Nm
Design Results:		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity $\Phi_b M_{nx}$	1264.74 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	3219 mm		
Nominal Noggin Spacing	1129 mm		
Maximum Nominal Stud Spacing	575 mm		
Actual Nominal Stud Spacing	575 mm		
Stud Engineering Compliance	100 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	1.036 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	0.875 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.875 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	0.000 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	0.875 kN/m	Centroid Top	44.02 mm
Snow Load (S)	3.500 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	2.408 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	1.095 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.337 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	6846 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	6046 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	2644 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	9000 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	638 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	738 mm	Compression Capacity $\Phi_c P_n$	18.10 kN
0.42Wh	826 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	1340 mm	Bending Capacity $\Phi_b M_{nx}$	1264.74 Nm
Design Results:		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity $\Phi_b M_{nx}$	1264.74 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	3023 mm		
Nominal Noggin Spacing	1129 mm		
Maximum Nominal Stud Spacing	1500 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	%		
Manually Altered	Yes		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	3.378 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	3.750 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.625 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	3.750 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	4.375 kN/m	Centroid Top	44.02 mm
Snow Load (S)	1.875 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	1.720 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	0.782 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.308 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	2453 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1964 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1998 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	4893 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	753 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	878 mm	Compression Capacity $\Phi_c P_n$	21.59 kN
0.42Wh	1086 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	1760 mm	Bending Capacity $\Phi_b M_{nx}$	1327.02 Nm
		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
		Bending Capacity $\Phi_b M_{nx}$	1327.02 Nm
Design Results:			
Stud Material	89S41-095-350		
Stud Spacing Type	Single Absolute		
Nominal Wall Height	2760 mm		
Nominal Noggin Spacing	953 mm		
Maximum Nominal Stud Spacing	750 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	80 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	4.729 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	5.250 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.875 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	5.250 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	6.125 kN/m	Centroid Top	44.02 mm
Snow Load (S)	2.625 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	2.408 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	1.095 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.337 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	1544 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1237 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1258 mm	Shear Capacity ΦvVn	9.46 kN
1.2G + 1.6P1	3043 mm	Tension Capacity ΦtTn	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	564 mm	Compression Capacity ΦcPno	33.08 kN
0.9G + 1.0Wu + 1.0Wh	689 mm	Compression Capacity ΦcPn	18.13 kN
0.42Wh	828 mm	Bending Capacity ΦbMnxo-	1438.05 Nm
P2	1342 mm	Bending Capacity ΦbMnx-	1265.51 Nm
Design Results:		Bending Capacity ΦbMnxo	1438.05 Nm
Stud Material	89S41-095-350	Bending Capacity ΦbMnx	1265.51 Nm
Stud Spacing Type	Single Absolute		
Nominal Wall Height	3021 mm		
Nominal Noggin Spacing	1127 mm		
Maximum Nominal Stud Spacing	550 mm		
Actual Nominal Stud Spacing	550 mm		
Stud Engineering Compliance	100 %		
Manually Altered	No		

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Panel Label:	L19	Section Dimensions (single stud):	
Design Basics:		Section Height	89 mm
Steel Design Code	AISI S100-12 LRFD	Section Width	41 mm
Loading Code:	IBC 2015 LRFD	Lip Length	11.50 mm
Wind Speed	W49	Inside Radius	2.00 mm
Snow Slope Factor	1.0	Material Thickness	0.95 mm
Snow Adjustment Factor	1.0	Yield Strength	350 MPa
Wall Location	External	Tensile Strength	420 MPa
Dead Load (G)	2.972 kN/m	Section Properties (single stud):	
Live Load (Q1 = max(Q2,Q3))	3.300 kN/m	Gross Area	176.653 mm ²
Roof Live Load (Q2)	0.550 kN/m	Section Mass	1.387 kg/m
Floor Live Load (Q3)	3.300 kN/m	Centroid Left	12.92 mm
Live Load (Q4 = Q2+Q3)	3.850 kN/m	Centroid Top	44.02 mm
Snow Load (S)	1.650 kN/m	Second Moment of Inertia Ix	224850 mm ⁴
Wind Up Load (Wu)	1.514 kN/m	Second Moment of Inertia Iy	41508 mm ⁴
Wind Down Load (Wd)	0.688 kN/m	Radius of Gyration rx	35.68 mm
Wind Horizontal Load (Wh)	1.501 kPa	Radius of Gyration ry	15.33 mm
Panel Self Weight	0.295 kN/m	Shear Centre x	32.60 mm
Applied Point Load (P)	1.1 kN	Shear Centre y	0.00 mm
Impact Load (P2)	0.7 kN	Polar Gyration ro	50.91 mm
Load Case Results (single stud)	Maximum Stud Spacing	Torsion Constant J	53 mm ⁴
1.2G + +1.6Q2 + 1.0Q3	2091 mm	Warping Constant Cw	72.90 E06mm ⁶
1.2G + 0.5Q2 + 1.6Q3	1674 mm	Section Capacities (single stud):	
1.2G + 1.0Q3 + 1.6S	1704 mm	Shear Capacity $\Phi_v V_n$	9.46 kN
1.2G + 1.6P1	4047 mm	Tension Capacity $\Phi_t T_n$	51.85 kN
1.2G + 0.5Q4 + 1.0Wh	718 mm	Compression Capacity $\Phi_c P_{no}$	33.08 kN
0.9G + 1.0Wu + 1.0Wh	818 mm	Compression Capacity $\Phi_c P_n$	16.20 kN
0.42Wh	1242 mm	Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
P2	2014 mm	Bending Capacity $\Phi_b M_{nx}$	1166.53 Nm
		Bending Capacity $\Phi_b M_{nxo}$	1438.05 Nm
		Bending Capacity $\Phi_b M_{nx}$	1166.53 Nm
Design Results:			
Stud Material	89S41-095-350		
Stud Spacing Type	Single Absolute		
Nominal Wall Height	2639 mm		
Nominal Noggin Spacing	1360 mm		
Maximum Nominal Stud Spacing	700 mm		
Actual Nominal Stud Spacing	600 mm		
Stud Engineering Compliance	86 %		
Manually Altered	No		

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