



COMPANY

PROJECT

RESULTS by GROUP - CSA-086-19

SUGGESTED SECTIONS by GROUP for LEVEL 2 - ROOF

Floor_Jst1	Lumber	S-P-F	No.1/No.2	64x140 @488
ConstBeam	Timber	D.Fir-L	No.2	292x394
RoofMainBeam	Glulam-E	Spruce-Pine	20f-E	130x684
RoofSecondBeam	Glulam-EX	Spruce-Pine	20f-EX	80x418
Column2	Glulam-c	D. Fir-L	16c-E	175x152

SUGGESTED SECTIONS by GROUP for LEVEL 1 - FLOOR

Floor_Jst1	Lumber	S-P-F	No.1/No.2	89x286 @488
ConstBeam	Timber	D.Fir-L	No.2	292x394
FloorBeam	Glulam-E	Spruce-Pine	20f-E	175x608
Column1	Glulam-c	D. Fir-L	16c-E	175x190

CRITICAL MEMBERS and DESIGN CRITERIA

Group	Member	Criterion	Analysis/Design Values
Floor_Jst1	j11	Vibration	0.91
ConstBeam	b27	Bending	0.98
FloorBeam	b48	Shear	0.78
RoofMainBeam	b40	Bending	0.94
RoofSecondBeam	b44	Bending	0.99
Column1	c5	Axial	0.97
Column2	c23	Axial	0.74

DESIGN NOTES:

1. Please verify that the default deflection limits are appropriate for your application.
2. DESIGN GROUP OCCURS ON MULTIPLE LEVELS: the lower level result is considered the final design and appears in the Materials List.
3. Live and snow loads entered on roof level are considered on exterior surface and not combined. Add an empty roof level to bypass this interpretation.
4. BEARING: the designer is responsible for ensuring that adequate bearing is provided.
5. JOISTS: a Case 2 system factor is used when lumber joists are spaced not more than 610 mm (24 in.) apart.
6. KL calculated as per O86 7.5.6.4
7. BEAMS require restraint against lateral displacement and rotation at points of bearing (O86 6.5.3.2.3).
8. KL calculated as per O86 7.5.6.4