



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