

STRUCTURAL LOAD CALCULATION CHECK SHEET

- ❑ Calculate snow-loading conditions in accordance with the 1996 BOCA Building Code, Section 1610. (a) Ground snow load and (b) Roof snow load.
- ❑ Minimum uniform loading conditions (live and dead) as specified in 1996 BOCA Building Code, Sections 1605, 1606, 1609 and ASCE 7-93.
- ❑ All types of rafters (worst case).
- ❑ All cantilevered floor joists.
- ❑ All floor joists for different loading conditions (worst case).
- ❑ All load bearing headers.
- ❑ All other non-conventional materials and construction (i.e. steel flitch plate beams).
- ❑ Bending and axial stresses imposed on exterior walls or resolve stresses imposed on exterior walls (i.e. bending and axial loads or shear wall and diaphragms).
- ❑ All engineered beams.
- ❑ Verification of foundation, such as capacity and minimum dimensions (Sections 1810, 1812).
- ❑ Specifications for building materials to be used should accompany this report. There is a big difference between the different species of lumber. Specifications should include:
 - Minimum depth requirements of footing, Section 1806.
 - Bending stress and modulus of elasticity minimum requirements for all conventional and engineered lumber.
 - Soil bearing capacity.
 - Anchor bolt/strap requirements.
 - Steel beams shall conform to ASTM A36 specifications.
 - Reinforcing steel specifications.
 - All nailing patterns shall conform to BOCA, ASCE and manufacturer's specifications.

BASEMENT FOUNDATION

Spread footing: size _____ Reinforcement _____

Bleeders: spacing _____ Size _____

Poured wall _____ Size _____ Reinforcement _____

Block wall _____ Size _____ Reinforcement _____

Is a membrane tile being used? Yes _____ No _____

Is basement being damp proofed? _____ Waterproofed? _____

Beam size _____ Column pad size _____ Spacing _____ Reinforcement _____

Is there four inches of pea stone under basement slab? Yes _____ No _____

Is visqueen under basement slab? Yes _____ No _____

FRAMING

Exterior walls: 2x4 _____ 2x6 _____ Steel studs _____

Interior walls: 2x4 _____ 2x6 _____ Steel studs _____

Floor joist: First floor size _____ species _____ location _____

Second floor size _____ species _____ location _____

I joist: First floor size _____ species _____ location _____

Second floor size _____ species _____ location _____

Manufacturer: _____

- If I-Joists are used shop drawings must be supplied at time of rough inspection.

Laminated Beams: Size _____ Location _____ Size _____ Location _____

Manufacturer: _____

STAIRS

Riser Height _____ Tread Width _____

Are stair nosings being used: Yes ___ No ___ Size _____

Are Treads wood _____ carpet _____ vinyl _____

Trusses _____ 2x4 _____ 2x6 manufactured: _____

Rafters _____ Size _____ Species _____

Ceiling joists size _____ Species _____

Are all windows within five feet of tub or shower tempered? Yes _____ No _____

Is ice and water shield at 90# rolled roofing being used in all valley and eaves? Yes _____
No _____

Does the entire roof have H15 felt paper? Yes _____ No _____

Do the submitted plans reflect what is being built? Yes _____ No _____

If not, list changes

Are plans reversed? Yes _____ No _____

The City of Hazel Park **does not** accept plans marked reversed. Plans must reflect what is being constructed.

Applicant Signature: _____

Date: _____