

## C. HEADER SCHEDULE:

- a. shall be identified by the grade mark of a lumber grading or inspection bureau or agency approved by the American Lumber Standards Committee (a/k/a ALSC),
  - b. shall be Group 2 or 3,
  - c. shall not be less than #2, e.g., shall not be stud-grade or utility grade or "thinner" lumber (i.e., 1 1/4" true thickness).
  - d. shall be (in decreasing order of preference) - i. Southern Yellow Pine, ii. Douglas Fir-Larch, iii. Spruce-Pine-Fir,
  - e. shall be naturally continuous for a given member,
  - f. members on application - i. shall not be less than 2 linear inches in nominal thickness, ii. shall contain not more than 12% moisture content, iii. except preservative-treated wood products which shall contain not more than 19% moisture content, iv. shall be determined to have been stored dry before being delivered to a site, v. shall be delivered to a site on other than a rainy day, and vi. shall be stored on a site sheltered from natural elements;
  - g. if engineered or graded, may be ripped if appropriate adjustments are made to performance metrics given the member's post-rip dimensions.
2. Prohibited materials shall include -
- a. these materials - i. standard and utility grade lumber, ii. including all lumber less than #2, iii. lumber finger-jointed, iv. lumber end-jointed, v. members scabbed, vi. members butted, vii. members spliced; viii. stud-grade lumber; ix. "thinner" lumber.
3. A span table reference shall be amended as follows -
- a. for a clearspan - i. considering qualification otherwise for all relevant criteria, e.g., specie, loads, elasticity, etc., the stated maximum length of a framing member, ii. shall be decreased by not less than 15% for application.
4. Headers -
- a. when not less than 4 linear feet in clearspan or when acting as shearwall - i. shall be trimmed at each end by double king studs and ii. shall be supported by double jack studs, or jamb studs, or trimmer studs, and iii. shall be strapped to header studs with not less than 2 Simpson LSTA straps on each end.
  - b. when less than 4 linear feet in clearspan- i. shall be trimmed at each end by not less than a single king stud and ii. supported by not less than a single jack stud, or jamb stud, or trimmer stud, and iii. shall be strapped to header studs with not less than 1 Simpson LSTA strap at each end.
  - c. when acting as shearwall, or braced wall, in corners, shall be run tight to the corner structure,
  - d. when acting as shearwall - i. shall be applied with not less than one tie-down from sill or sole to king studs or jack studs, or jamb studs, or trimmer studs and ii. shall be applied with one steel strap on the interior securely fastened to both top plates, the header and not less than 18 linear inches of jack, or trimmer, or jamb stud(s) in line, iii. shall have cripples at opposing butts plus cripples common-spaced, iv. shall be fastened to their king studs, 1) with not less than 1 not less than 16d common galvanized nail, 2) for each 2 linear inches x 3 linear inches equivalent header member, (e.g., a built-up 2 linear inches x 6 linear inches header would be the equivalent of 4-2 linear inches x 3 linear inches members and therefore 2 nails would be applied on each end) and 3) face nailed through the king studs with not less than 2-6d common galvanized nails into each interior butt, or failing this application, v. shall be fastened to the king studs at each end with header hangers or framing clips, vi. shall be supported by jack, or trimmer, or jamb studs that - 1) shall run without interruption from the header bottom of face to the sole plate top of face and 2) shall not be severed or otherwise amended throughout as, e.g., by butting to a window sill plate top of face.
5. Headers -
- a. in interior bearing applications - i. a flitch shall be plated between the header members for structure in a x 4 linear inches wall or multiples, and 2 flitches in a x 6 linear inches wall, ii. therewith taking up wall stud depth entirely, and iii. the header shall be sized to code plus one size up, 1) except that if code (as amended above in 3.a) requires x 12 linear inches members, 2) then that header shall be specified with engineered lumber.
  - b. in exterior applications - i. either a foam insulation or air space shall be set to the interior face, ii. in bearing application, shall be sized to code plus one size up, 1) except that if code requires x 12 linear inches member, 2) then that header shall be specified with engineered lumber,
  - c. in applications of significant wall amendment by large or numerous door or window features - i. then each header shall be strapped, ii. with longest appropriate length of Simpson TS or equivalent, iii. from header, across top plates, and onto either ceiling joists or braces to ceiling joists, or iv. by solid blocking or bracing,
  - v. in any case at not greater than 24" on center.