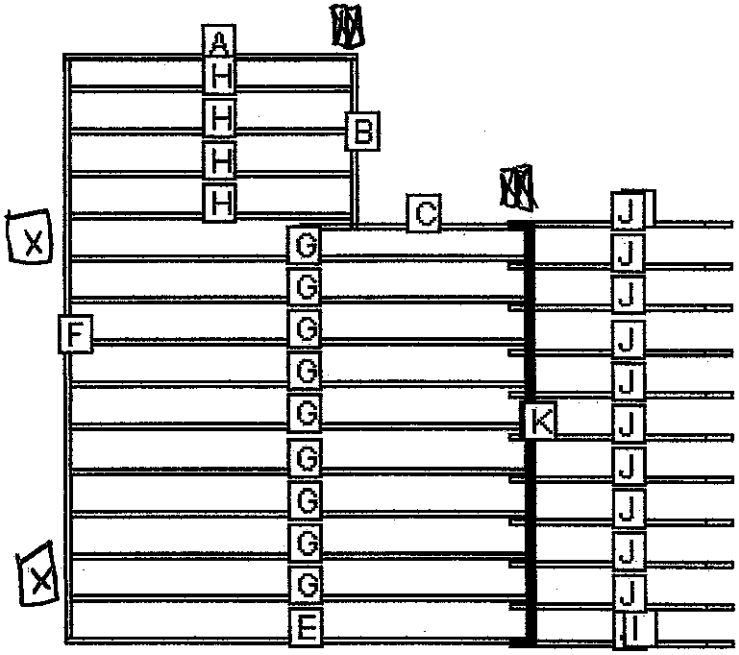
Materials Cut List: Level 1

3. FRAMING MEMBERS

(POSTS ARE ON PRIOR PAGE)



DECK ATTACHMENT FOR LATERAL LOAD PER IRC 2009 R502.2.2.3

LOWER DECK VIEW

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Rim Joist	1	6' 10 1/4"	0, 0	G	Internal Joist	9	10' 7 1/4"	0, 0
B	Header	2	4'	0, 0	H	Internal Joist	4	6' 7 1/4"	0, 0
C	Rim Joist	1	5' 3 3/4"	0, 0	I	Cladding	2	5' 10"	0, 0
D	Header	1	9' 7 1/4"	0, 0	J	Pre Cut Stringer	11	5' 10"	0, 0
E	Rim Joist	1	10' 10 1/4"	0, 0	K	Stringer Support	2	10'	0, 0
F	Header	1	13' 7 1/4"	0, 0					

Cut Angles: L=Left, R=Right, F=Front, S=Side

LEDGER 2" X 12" X 14' #2 PT

FASTENER FOR LEDGER 1/2" X 8" HOT DIPPED GALV HEX BOLT STAGGERED PER 12"

ALL FRAMING LUMBER IS 2" X 12" #2 PT 12" OC

JOIST HANGERS ARE USP 2" X 12" TRIPLE ZINC SLANT NAIL + USP 1 1/2" X 6 1/2" TRIPLE ZINC RAFTER TIES

PER IRC 2009 TABLE R502.2.2.1

IRC 2009

TABLE R502.2.2.1
FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER AND A 2-INCH NOMINAL SOLID-SAWN SPRUCE-PINE-FIR BAND JOIST[c, f, g]
(Deck live load = 40 psf, deck dead load = 10 psf)

JOIST SPAN	6′ and less	6′1″ to 8′	8′1″ to 10′	10′1″ to 12′	12′1″ to 14′	14′1″ to 16′	16′1″ to 18′
Connection details	On-center spacing of fasteners[d, e]						
1/2-inch diameter lag screw with $^{15}/_{32}$ inch maximum sheathing[a]	30	23	18	15	13	11	10
1/2-inch diameter bolt with $^{15}/_{32}$ inch maximum sheathing	36	36	34	29	24	21	19
1/2-inch diameter bolt with $^{15}/_{32}$ inch maximum sheathing and $^1/_2$ inch stacked washers[b, h]	36	36	29	24	21	18	16

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm. 1 pound per square foot = 0.0479 kPa.

a. The tip of the lag screw shall fully extend beyond the inside face of the band joist.

b. The maximum gap between the face of the ledger board and face of the wall sheathing shall be $^1/_2$″.

c. Ledgers shall be flashed to prevent water from contacting the house band joist.

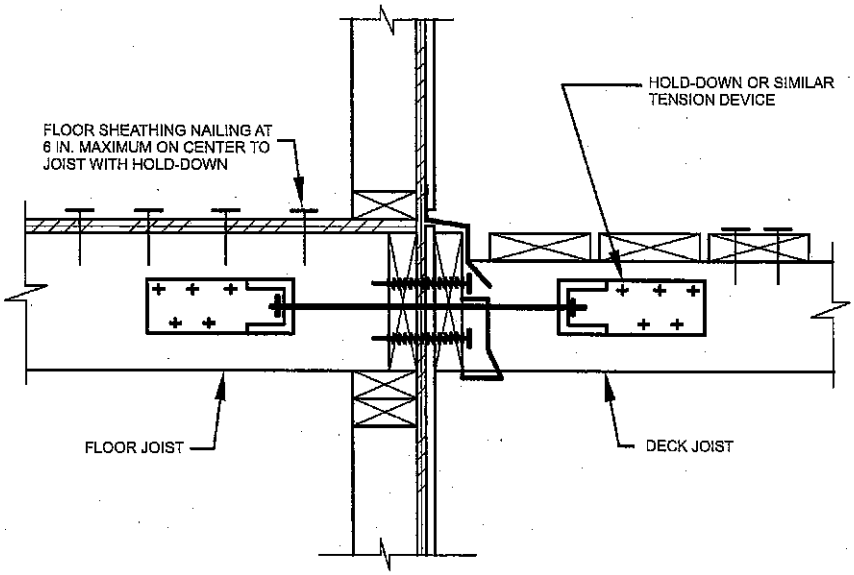
d. Lag screws and bolts shall be staggered in accordance with Section R502.2.2.1.1.

e. Deck ledger shall be minimum 2 × 8 pressure-preservative-treated No.2 grade lumber, or other approved materials as established by standard engineering practice.

f. When solid-sawn pressure-preservative-treated deck ledgers are attached to a minimum 1 inch thick engineered wood product (structural composite lumber, laminated veneer lumber or wood structural panel band joist), the ledger attachment shall be designed in accordance with accepted engineering practice.

g. A minimum 1 × $9^1/_2$ Douglas Fir laminated veneer lumber rimboard shall be permitted in lieu of the 2-inch nominal band joist.

h. Wood structural panel sheathing, gypsum board sheathing or foam sheathing not exceeding 1 inch in thickness shall be permitted. The maximum distance between the face of the ledger board and the face of the band joist shall be 1 inch.



For SI: 1 inch = 25.4 mm.

FIGURE R502.2.2.3
DECK ATTACHMENT FOR LATERAL LOADS

R502.3 Allowable joist spans. Spans for floor joists shall be in accordance with Tables R502.3.1(1) and R502.3.1(2). For other grades and species and for other loading conditions, refer to the AF&PA Span Tables for Joists and Rafters.

R502.3.1 Sleeping areas and attic joists. Table R502.3.1(1) shall be used to determine the maximum allowable span of floor joists that support sleeping areas and *attics* that are accessed by means of a fixed stairway in accordance with Section R311.7 provided that the design live load does not exceed 30 pounds per square foot (1.44 kPa) and the design dead load does not exceed 20 pounds per square foot (0.96 kPa). The allowable span of ceiling joists that support *attics* used for limited storage or no storage shall be determined in accordance with Section R802.4.