

**DECK**

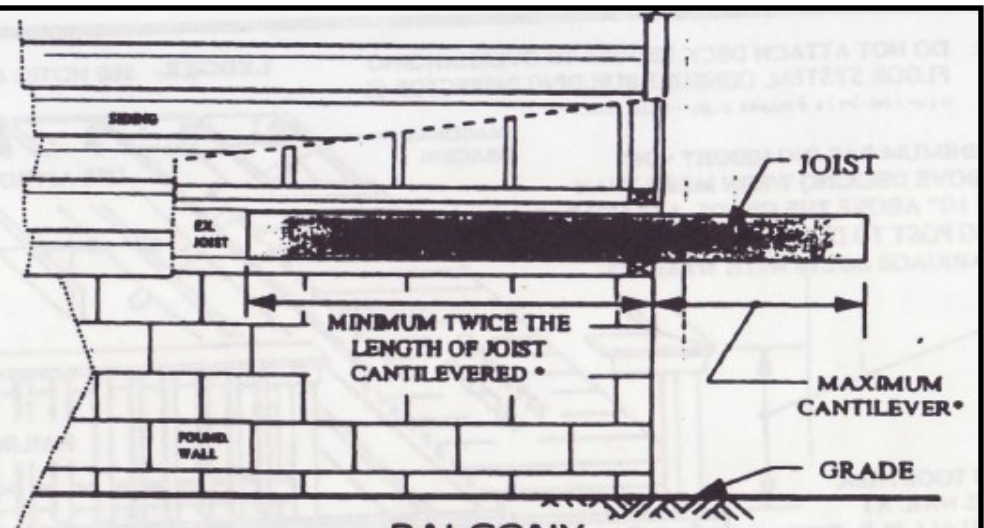
SUPPORTED BY HOUSE ON ONE SIDE AND BY POSTS AND BEAM ON THE OTHER.

40 psf LIVE LOAD ON SUPPORTED SECTION OF JOIST.  
60 psf LIVE LOAD ON CANTILEVER.

FOR MAXIMUM CANTILEVER, USE SPAN SHOWN IN BALCONY CHART.

SPAN TABLE - DECK JOISTS (PRESSURE TREATED S. YELLOW PINE # 2)

JOIST SIZE	SPACING	MAXIMUM SPAN
2" x 6"	12" ON CENTER	10' - 9"
	16" ON CENTER	9' - 9"
	24" ON CENTER	7' - 9"
2" x 8"	12" ON CENTER	14' - 2"
	16" ON CENTER	12' - 10"
	24" ON CENTER	10' - 2"
2" x 10"	12" ON CENTER	18' - 0"
	16" ON CENTER	16' - 1"
	24" ON CENTER	13' - 0"
2" x 12"	12" ON CENTER	21' - 9"
	16" ON CENTER	18' - 10"
	24" ON CENTER	15' - 10"



**BALCONY**

PROJECTING FROM AND SUPPORTED BY HOUSE WITH NO OTHER SUPPORTS.

60 psf LIVE LOAD

\* FOR EVERY FOOT OF JOIST CANTILEVERED PAST THE WALL (OR PAST THE DECK BEAM), THERE MUST BE AT LEAST 2 FEET OF JOIST BEHIND THE WALL OR BEAM.

SPAN TABLE - BALCONY JOISTS & CANTILEVER ON DECK JOISTS (PRESSURE TREATED S. YELLOW PINE # 2)

JOIST SIZE	SPACING	MAXIMUM CANTILEVER
2" x 6"	12" ON CENTER	4' - 2"
	16" ON CENTER	3' - 9"
	24" ON CENTER	3' - 1"
2" x 8"	12" ON CENTER	5' - 9"
	16" ON CENTER	5' - 3"
	24" ON CENTER	4' - 3"
2" x 10"	12" ON CENTER	6' - 0"
	16" ON CENTER	6' - 0"
	24" ON CENTER	5' - 6"
2" x 12"	12" ON CENTER	6' - 0"
	16" ON CENTER	6' - 0"
	24" ON CENTER	6' - 0"

DECK & BALCONY  
CONSTRUCTION DETAILS

PLANS REVIEW & PERMITS  
417 E. FAYETTE STREET, ROOM 101  
BALTIMORE, MD 21202  
OFFICE: 410-396-3460 FAX: 410-545-0892

**WARNING: DO NOT ATTACH DECK LEDGER TO OVERHANGING FLOOR SYSTEM. CONSULT BUILDING INSPECTOR @ 910-320-3471 FROM 7:30 - 8:30 AM.**

MINIMUM RAILING HEIGHT = 36" ABOVE DECKING WHEN MORE THAN 15 1/2" ABOVE THE GRADE. ATTACH RAILING POST TO DECK WITH 3/8" LAG OR CARRIAGE BOLTS WITH WASHERS.

NAIL BEAMS TOGETHER WITH 3 ROWS NAIL AT 24" O C THRU ALL PLY.

MAXIMUM UNSUPPORTED POST HEIGHT

4" x 4" 8'-5"  
6" x 6" 12'-6"  
8" x 8" 15'-0"

MINIMUM 30" BELOW GRADE

BEAM SPAN (FOR 12' FT. JOIST SPAN)	FOOTING SIZE:
2 - 2" x 8"	MAX. SPAN = 8' - 0" 15" DIA. OR 13" SQ.
3 - 2" x 8"	MAX. SPAN = 10' - 0" 17" DIA. OR 15" SQ.
2 - 2" x 10"	MAX. SPAN = 10' - 0" 17" DIA. OR 15" SQ.
3 - 2" x 10"	MAX. SPAN = 12' - 0" 18" DIA. OR 16" SQ.
2 - 2" x 12"	MAX. SPAN = 12' - 0" 18" DIA. OR 16" SQ.
3 - 2" x 12"	MAX. SPAN = 14' - 0" 19" DIA. OR 17" SQ.
4 - 2" x 12"	MAX. SPAN = 17' - 0" 23" DIA. OR 20" SQ.

LEDGER- SEE NOTES & WARNING

USE APPROVED FLASHING

SIDING

EXTERIOR FINISH

DIAGONAL BRACING

USE APPROVED JOIST HANGERS

FLOOR JOIST SPACING (SEE SPAN TABLE)

LEDGER BOARD

HOUSE BAND BOARD

FOUND WALL

APPROVED DECKING

RAILING

SEE SPAN TABLE  
SEE REVERSE SIDE

NOTES :

IF LEDGER BOARD IS TO BE ATTACHED TO :

1.) BRICK VENEER- LEDGER BOARD SUPPORTED BY POST AS REQUIRED

2.) BRICK w/BLOCK OR BLOCK ONLY- USE 1/2" CARRIAGE BOLTS AND WASHERS THROUGH BOLTED TO FULL DEPTH OF THE WALL WITH CONTINUOUS 2" x 4" BACKER BOARD

3.) CONCRETE POURED- USE 1/2" LAG BOLTS, WASHERS AND SHIELDS. MINIMUM 4" EMBEDMENT

4.) HOUSE BAND BOARD- USE MINIMUM 1/2" CARRIAGE BOLTS STAGGER BOLTED 16" ON CENTER

5.) FOR DECKS UP TO 5'-0" ABOVE GRADE, 1/2" x 5" LAG BOLTS AND WASHERS MAY BE USED.

6.) A.P.A. PERFORMANCE RATED RIM BOARD- USE MINIMUM 1/2" CARRIAGE BOLTS STAGGER BOLTED AS FOLLOWS.

UP TO 12 FT. SPAN 18" ON CENTER  
13 FT. - 15 FT. SPAN 12" ON CENTER  
GREATER THAN 16 FT. SPAN 9" ON CENTER

7.) PROVIDE A CONTINUOUS 1" x 4" (MINIMUM) DIAGONAL BRACING TO THE UNDERSIDE OF DECK JOISTS FOR DECKS OVER 5'-0" ABOVE NATURAL GRADE.

4" ON CENTER SPACING

USE APPROVED ANCHORING SYSTEM

CARRIAGE BOLT SUPPORT BEAMS TO POST WITH 1/2" SIZE BOLTS & WASHERS

GRADE LINE

MINIMUM 8" THICK CONCRETE

SQUARE FOOTING

CIRCULAR FOOTING

LAG BOLT

CARRIAGE BOLT



WASHER

NUT

**ALL NAILS, BOLTS & HANGERS MUST BE HOT DIP GALVANIZED, STAINLESS STEEL OR TRIPLE COATED ZINC POLYMER MATERIAL.**