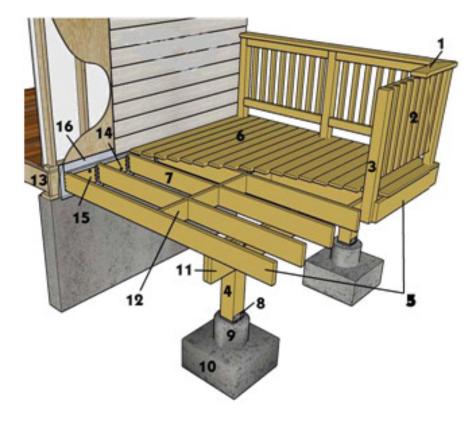


The purpose of this handout is to provide illustrations of common deck construction techniques. It is not the purpose of this handout to endorse any of the methods show or limit designs to those shown here. The techniques shown may not be suitable for some designs, soil types, or locations. While every attempt has been made to insure the correctness of this handout, no guarantees are made to its accuracy or completeness. Responsibility for compliance with applicable codes and ordinances falls on the owner or contractor. For specific questions regarding code requirements, refer to the Connecticut State Building Code or contact the Building Department.

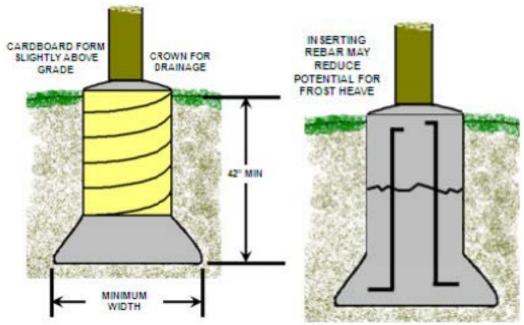
For charts on joist/beam spans, column/footing sizing, and cantilever projections, see the handouts or the 2015 IRC.

## TERMINOLOGY

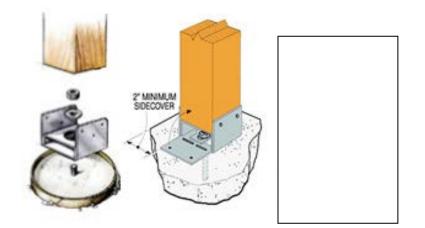
- 1. RAIL TOP CAP
- 2. BALLUSTERS
- 3. RAIL POST
- 4. SUPPORT POST
- RIM OR BAND JOIST
- 6. DECKING
- 7. JOISTS
- POST BASE CONNECTOR
- 9. PIER
- **10. FOOTING**
- 11. DROP BEAM
- 12. BLOCKING
- 13. HOUSE JOIST
- 14. ½" BOLTS
- 15. LEDGER BOARD
- 16. FLASHING



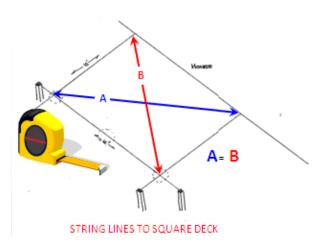
## FOOTINGS

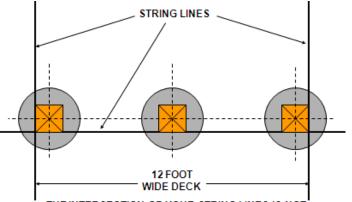


## **ANCHORING POST**



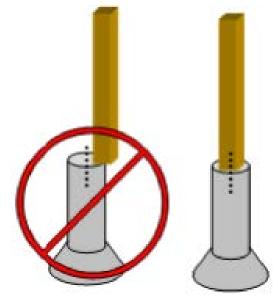
### WHERE DO I PUT MY FOOTINGS?





THE INTERSECTION OF YOUR STRING LINES IS NOT THE CENTER OF THE FOOTING. ADJUST ACCORDING TO THE LOCATION AND SIZE OF YOUR COLUMN.

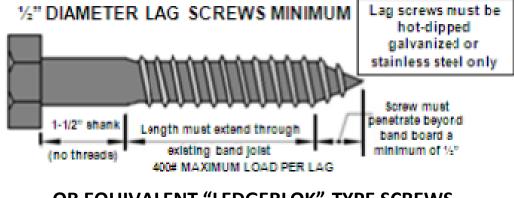
### THE REQUIRED AREA OF THE COLUMN SHOULD FULLY BEAR ON THE FOOTING



# **ATTACHING LEDGERS**

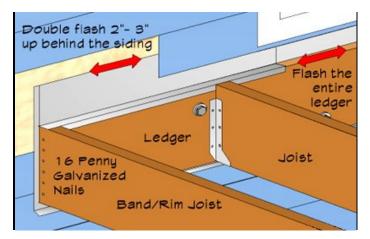
The lag screws or bolts shall be placed 2 inches in from the bottom or top of the deck ledgers and between 2 and 5 inches in from the ends. The lag screws or bolts shall be staggered from the top to the bottom along the horizontal run of the deck ledger.

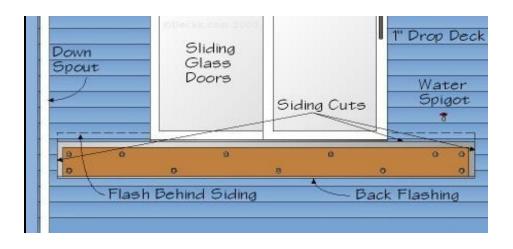


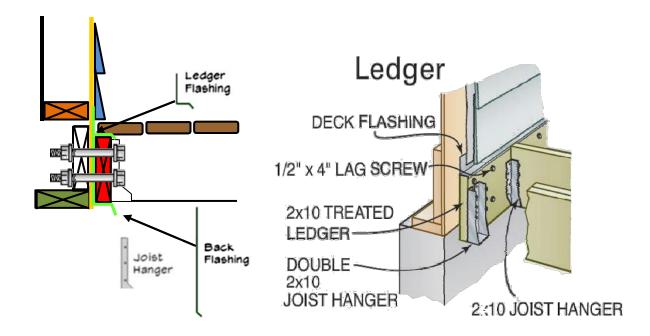


OR EQUIVALENT "LEDGERLOK"-TYPE SCREWS <u>TYPICALLY</u> ONE OR TWO PER JOIST BAY

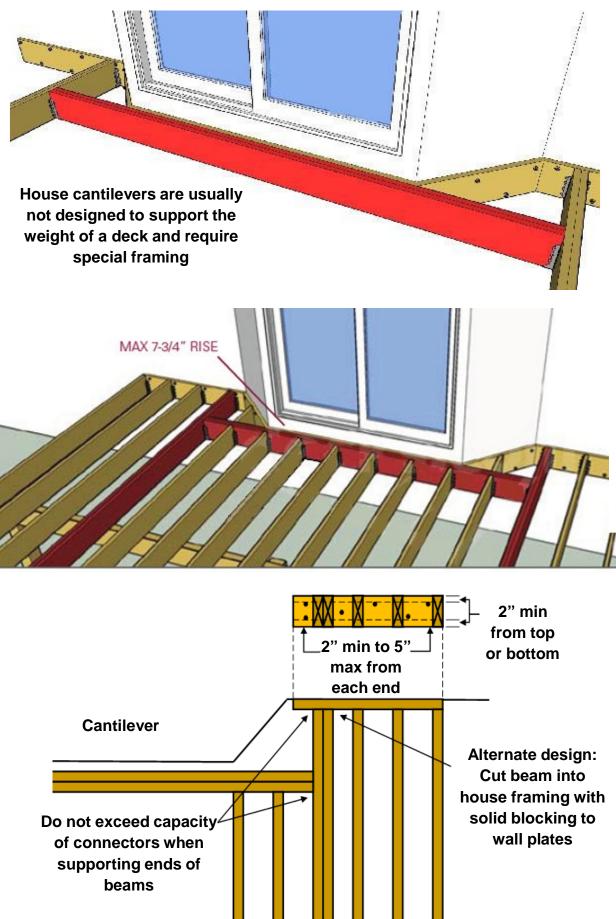
## **FLASHING LEDGERS**

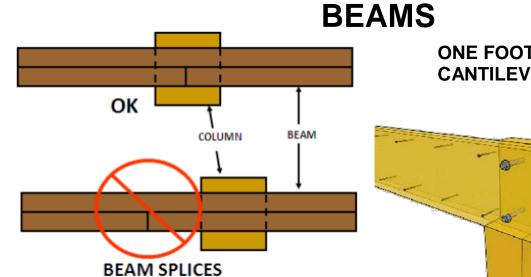




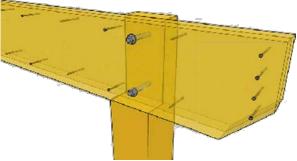


## **HOUSE CANTILEVERS**

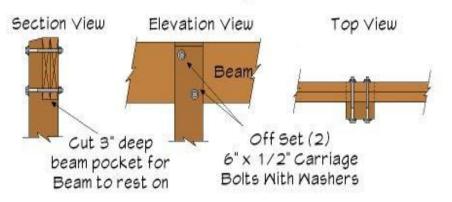


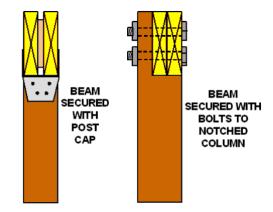


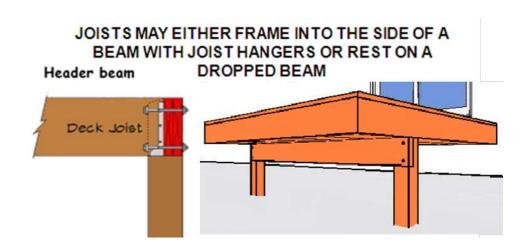
#### ONE FOOT MAXIMUM CANTILEVER BEYOND COLUMN

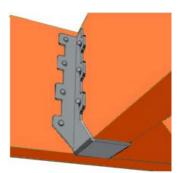


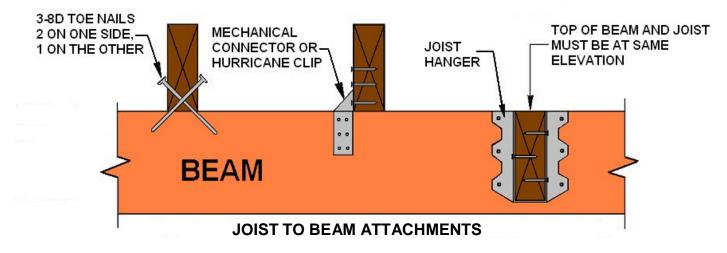
#### Beam Pocket Cut Into A 6x6 Support Post

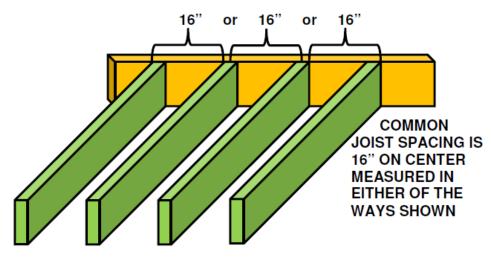






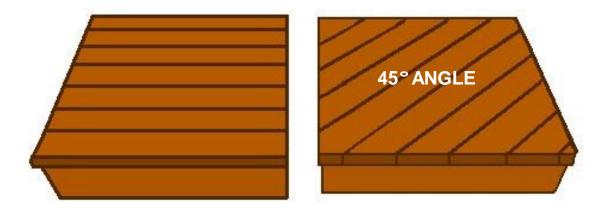


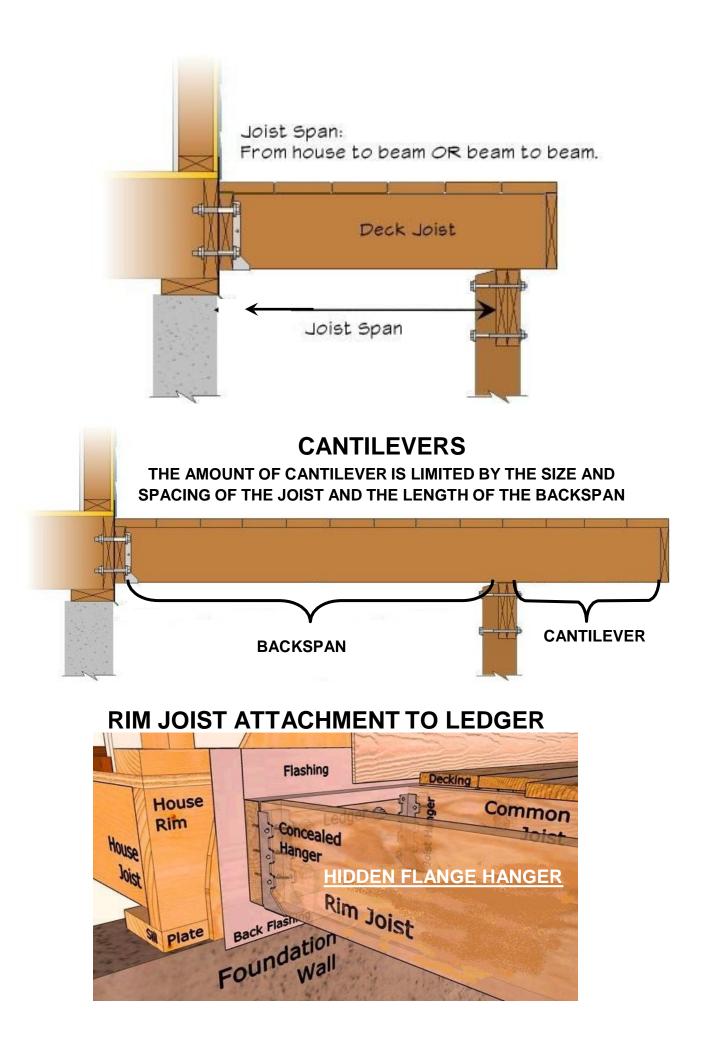




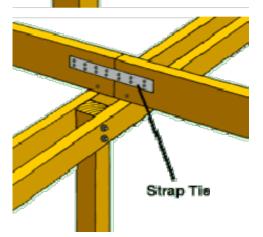
JOIST SPACING IS DETERMINED BY THE TYPE OF DECKING USED. 16" O.C. SPACING MUST BE USED WITH 5/4 DECKING OR WHEN 2X6 OR 2X4 DECKING IS USED AT A 45° ANGLE. 12" O.C. SPACING REQUIRED WHEN 5/4 DECKING IS USED AT A 45° ANGLE.

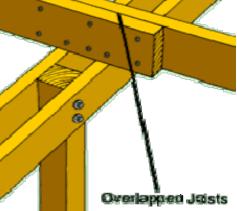


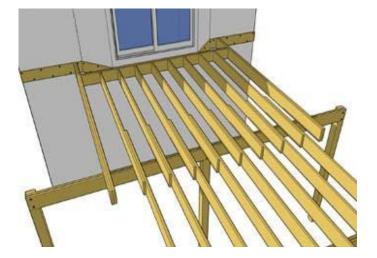


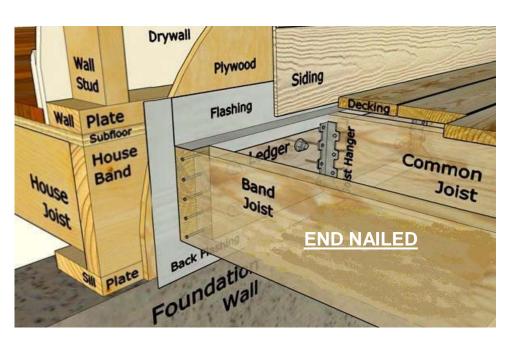


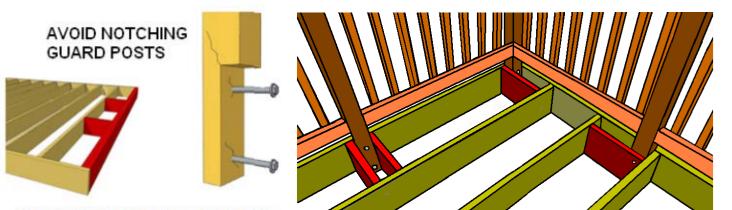
#### JOISTS CROWN UP



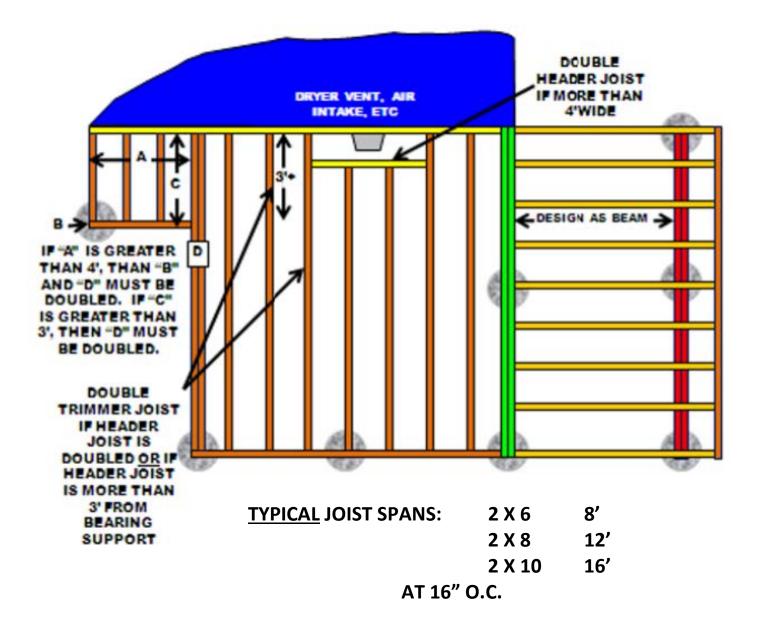


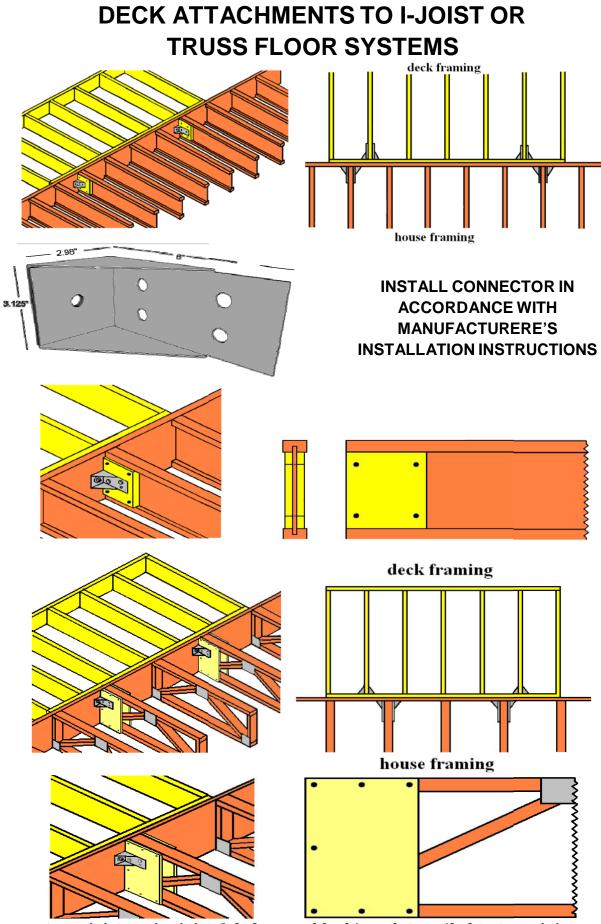






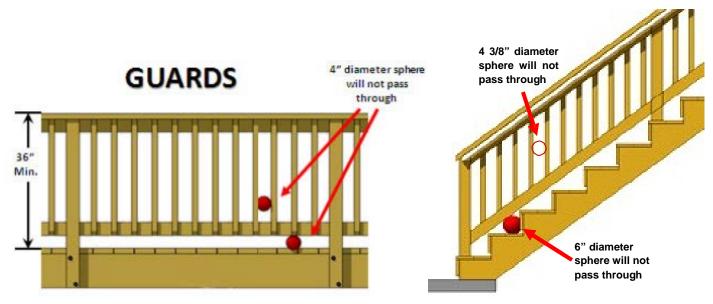
BLOCKING MAY BE ADDED TO STRENGTHEN POST ATTACHMENT





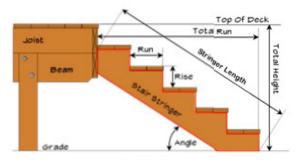
truss joist to rim joist & ledger

blocking plate nailed to truss joist



**GUARD IS REQUIRED IF DECK IS MORE THAN 30 INCHES ABOVE GRADE** 

### STAIR TERMINOLOGY



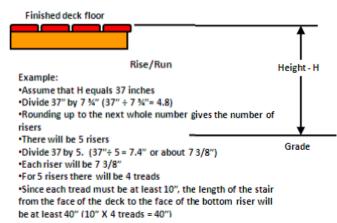
Stair Basics

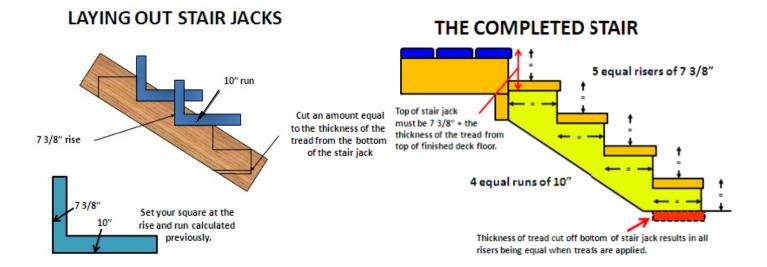
• The maximum riser height is 8¼ inches

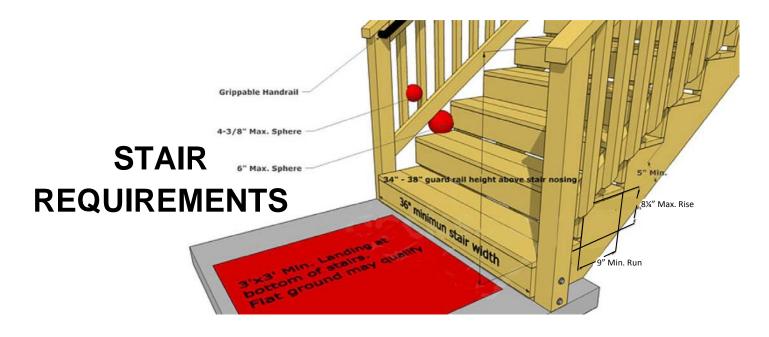
• The minimum tread run is 9 inches

• Treads and risers should be approximately equal with the largest not exceeding the smallest by more than ¾ inch.

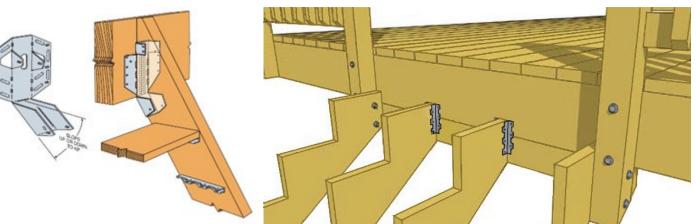
### **DETERMINING RISE/RUN**

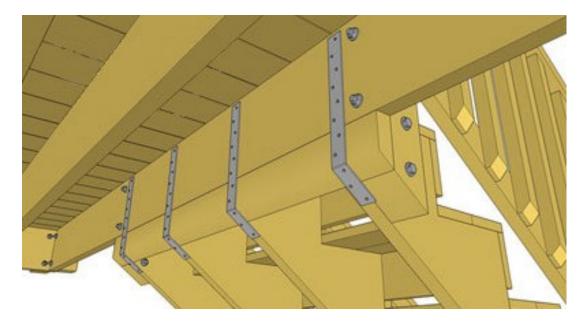




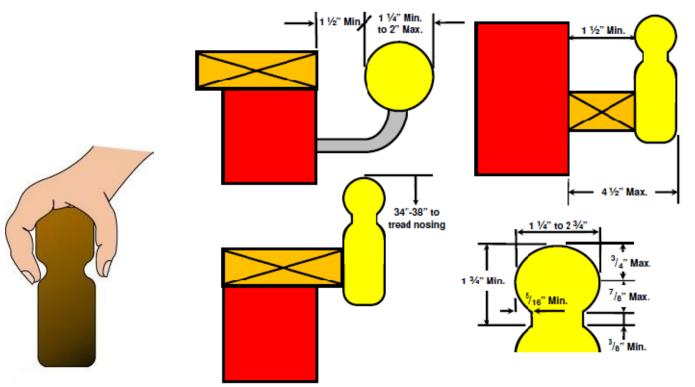


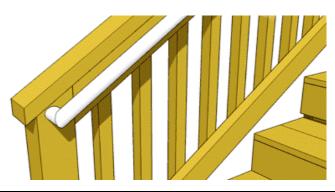
## **STAIR ATTACHMENTS**





### HANDRAILS





HANDRAILS MUST RETURN TO A NEWEL POST AND BE CONTINUOUS WITHOUT INTERUPTION FOR THE LENGTH OF THE FLIGHT

# COMPOSITES AND OTHER DECK/RAILING PRODUCTS

THIS HANDOUT <u>DOES NOT</u> COVER DECK OR RAILING PRODUCTS MADE OF COMPSITES, ALUMINUM, STEEL, GLASS, OR ANY OTHER MAN MADE PRODUCT. THOSE PRODUCTS MAY BE USED IF THE MANUFACTURER HAS A <u>RESEARCH REPORT</u> FROM THE INTERNATIONAL CODE COUNCIL AND THE PRODUCT IS INSTALLED IN STRICT ACCORDANCE WITH THAT REPORT.