**AVALON ALUMINUM RAIL AND BALUSTER DETAILS**

**LEVEL RAIL PANEL**
W/ SQ BALUSTERS

**STAIR AVAILABLE IN**
6' AND 8' LENGTHS,
36" AND 42" RAIL HEIGHTS

**STAIR SECTIONS HAVE**
A WORKING RANGE OF
0-38 DEGREES.

**NOTE:**
(A) FINISHED RAIL HEIGHT = 36", 42"
(B) PANEL LENGTH = 71.75", 95.75"
(C) MAX IRC AND IBC SPANS = 98.5"X36", 98.5"X42"

**STAIR RAIL PANEL**
W/ SQUARE BALUSTERS

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NOTE:
1. FOR OTT, A TOP RAIL LONGER THAN PANEL LENGTH IS NEEDED AND THERE IS A MAXIMUM CENTER TO CENTER POST SPACING OF 93.25" ACHIEVED USING A 95.5" RAIL.
3. IBC COMPLIANT FOR SECTIONS INSTALLED BETWEEN POSTS, 72" ON CENTER. IRC COMPLIANT FOR SECTIONS INSTALLED BETWEEN POSTS, 96" ON CENTER. STANDARD INSTALLS DO NOT HAVE THIS LIMITATION.
4. NO STAIRS AVAILABLE FOR AVALON OTT OR GLASS.

NOTE:
(A) FINISHED RAIL HEIGHT = 36", 42"
(B) POST HEIGHT = 33", 39"
(C) MAX IRC AND IBC SPAN = 93.25"X36", 93.25"X42"

NOTE:
(A) FINISHED RAIL HEIGHT = 36", 42"
(B) PANEL LENGTH = 71.75", 95.75"
(C) MAX SPANS = 98.5X36" IRC, 98.5X42" IBC

NOTE:
ANSI Z97.1 2004
16 CFR 1201 C11
SGCC 2975 1/4UA TEMPERED
NOTE:
1. A DECK BOARD MUST BE USED WHEN INSTALLING OBERON.
2. BRACKET COVERS ARE INCLUDED WITH TOP RAIL.
AVALON POST AND SURFACE MOUNT DETAILS

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<th>POSTS</th>
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<th>LENGTH B</th>
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<tr>
<td>AR. POST</td>
<td>108&quot;</td>
<td>4.32&quot;</td>
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</tbody>
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Note:
2.5" posts include factory mounted base plate, two pieces trim, post cap, and leveling shims. 4.3125" post sold separately as components.

POST BASE CONNECTION INTO WOOD WITH THROUGH BOLTS

POST BASE CONNECTION INTO CONCRETE WITH WEDGE ANCHORS

POST PER PLAN
ALUM BASE PLATE
WATER PROOF MEMBRANE BY OTHERS
ANCHOR INTO CONCRETE. SEE MANUFACTURER INSTRUCTIONS FOR DETAILS.

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1. COMMERCIAL APPLICATIONS ARE ALWAYS BOLTED, USE 3/8" DIAMETER A307 THROUGH BOLTS INTO SOLID WOOD BLOCKING.
2. WOOD BLOCKING BY OTHERS.
3. BLOCKING MUST BE DESIGNED TO WITHSTAND PROPER LOADING.

NOTE: IMAGES ONLY REFERENCE 2" AND 2.5" POSTS.
RESIDENTIAL APPLICATIONS

POST PER PLAN

ALUM BASE PLATE

WOOD BLOCKING AND FRAMING BY OTHERS

4 LAG BOLTS INTO SOLID WOOD 3/8" DIAMETER MINIMUM

5" EMBEDMENT INTO SOLID WOOD BLOCKING AND FRAMING

POST BASE CONNECTION INTO WOOD WITH LAG BOLTS

NOTE:
1. WOOD BLOCKING BY OTHERS.
2. BLOCKING MUST BE DESIGNED TO WITHSTAND PROPER LOADING.
Brackets & Accessories

OVER THE POST CORNER BRACKET

CORNER BRACKET

OVER THE POST LINE BRACKET

LINE BRACKET

OVER THE POST END BRACKET

END BRACKET

OVER THE POST LINE BRACKET

LINE COVER

CORNER COVER

OVER THE POST END BRACKET

END COVER

4.25" MOUNTING KIT

108" POST SLEEVE CAN BE USED AS A STRUCTURAL POST (REQUIRES 2 MOUNTING KITS)

4.25" FLAT POST CAP

4.25" TRIM RING

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DETAIL C
SCALE 1 : 4

PLUG

#8 X 1 1/2" PANHEAD

BOTTOM SUPPORT

BOTTOM SUPPORT COVER

DETAIL D
SCALE 1 : 4

POST

COVER

(2) PLUG

(4) 1/4" X 2.5" FLATHEAD MACHINE SCREW