

B-607-SB2

all conform to Section 508 of the Standard Specifications. All nensions are nominal sizes. All horizontal or vertical face boards be 2" nominal thickness and tongue and grooved.

All posts are A36 or A572 steel. All posts, deck screws, carriage bolts, nuts, washers, and nails shall be galvanized.

Carriage bolts shall be $\frac{1}{4}$ diameter and have nuts and lockwashers and peened threads. Tighten carriage bolts to set head flush with the surface of the wood. Deck screws shall be between $2^{1}/_{2}$ " and 3" long.

4. The entire wood portion of the fence above ground shall receive a coat of boiled linseed oil at the rate of 150 SF Max per gallon to retard

5. Use the 27 psf design in Boulder County, in the Front Range foothills, in exposed open terrain, high exposed locations, or within 10' of a high speed roadway pavement.

6. Rails or horizontal face boards shall be placed in accordance with combination simple span and two-span continuous layup of AITC Specification 118.

7. For fences with 5 or or more rails, vertical facing boards may be full length or may be placed such the each board bears on at least 3 rails, and all butt joints fall over the rails and are staggered by at least one rail in adjacent boards.

8. Single-faced fences shall have open knots plugged.

9. All timber shall have moisture content no higher then 17% at the time of

10. 1x3 vertical battens shall be attached with 10d ring shank nails at 2'-0" Max. 2x8 vertical battens shall be attached with deck screws at 2'-0" Max.

11. Top of the post may be flush with the top of the top horizontal rail or top horizontal face board.

12. The fence shall not retain more then 1'-0" of fill.

AASHTO Standard Specifications for Structural Design of Sound Barrier,

Wind load = 27 psf Exposure C

Wind load = 12 psf Exposure B1

Timber: Fb = 1000 psi Min Nom 1769 psi Min for wind Fv = 65 psiMin Nom 110 psifor wind

Steel: ASTM A36, fy = 36,000 psi, ASTM A572 may be substituted

ASSUMED SOIL PROPERTIES

Weight = 120 Lb/CF ϕ = 32° or compact coarse and fine sand. medium stiff clay, or soil slope of height = post embedment suitable for a 2:1 depth, "L", and construction traffic.

WOOD SOUND BARRIER			Project No./Code
(STEEL POST)			Project Number
ner: XXXXXXX	X Structure	X-XX-XX	Code
ler: XXXXXXX	χ Numbers	X-XX-XX	
t Subset: BRIDG	E Subset Sh	eets: BXX of XXX	Sheet Number