Force Engineering & Testing Inc.
2405 A S. Houston Ave. Suite 500
Humble, Texas 77396
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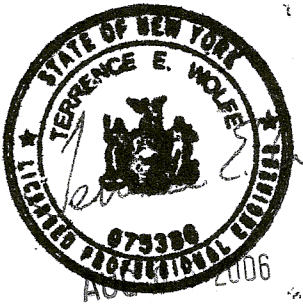
MODEL UAF 200

ULTRA ALUMINUM MFG



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DESIGN SUMMARY FOR UAF 200

DESIGN WIND PRESSURE: 113 PSF = 200 MPH (Per ASCE7-98)

MAX FENCE HEIGHT: 48"

MAX COLUMN SPACING: 72 7/8" O.C.

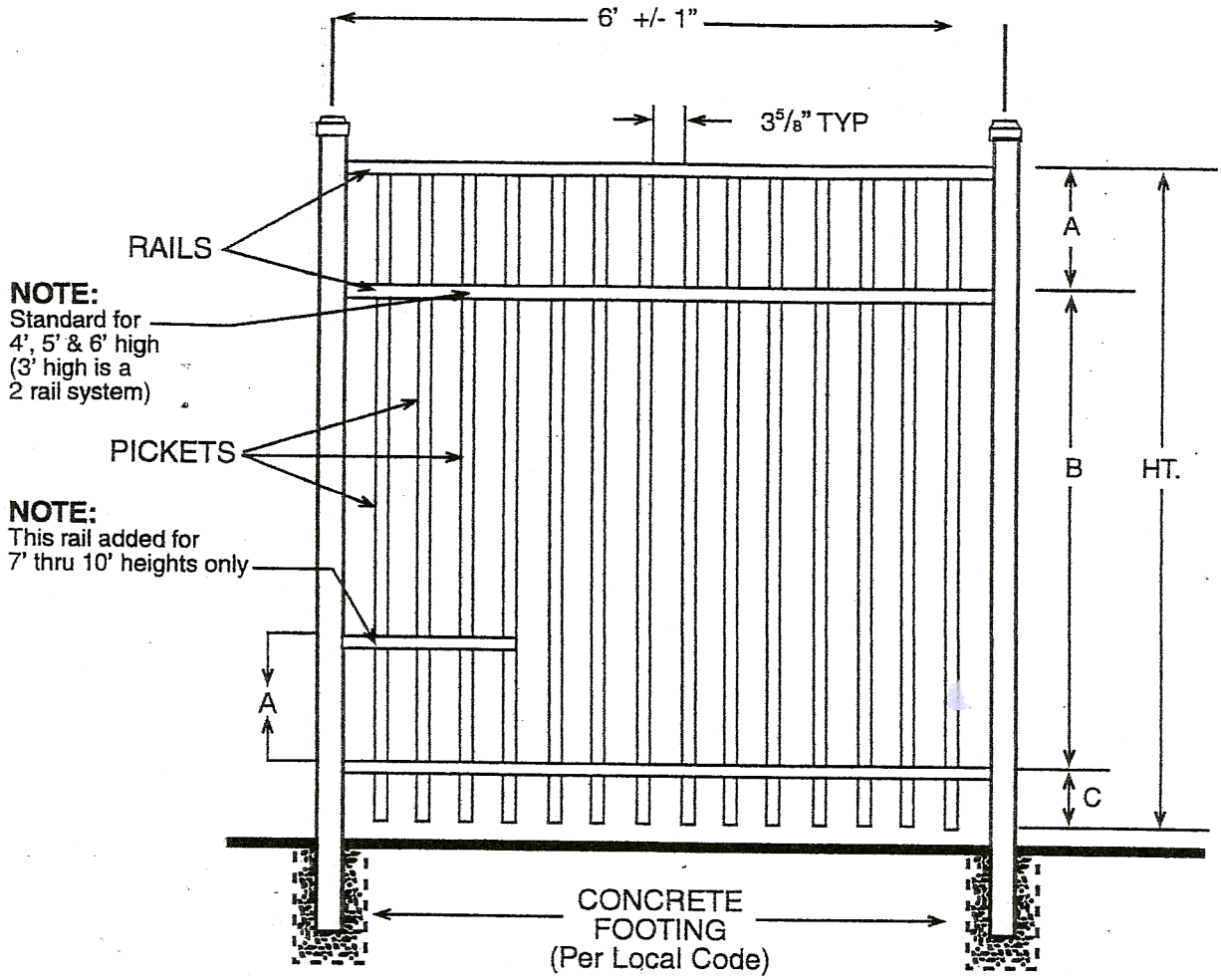
POST: 2-1/2" x 2-1/2" x .100" (6005-T5)

H-RAIL: 1.704" x 1.625" (SIDES: .100" TOP: .070") (6005-T5)

PICKETS: 1" x 1"x .060" (6063-T5)

PICKET SPACING: 4 5/8" O.C.

****DESIGNED IN ACCORDANCE WITH ANSI/ASCE7-98 AND ALUMINUM DESIGN MANUAL 2000***



ULTRA ALUMINUM MFG., INC.

UAF 200
FLAT TOP

SPECIFICATIONS
INDUSTRIAL

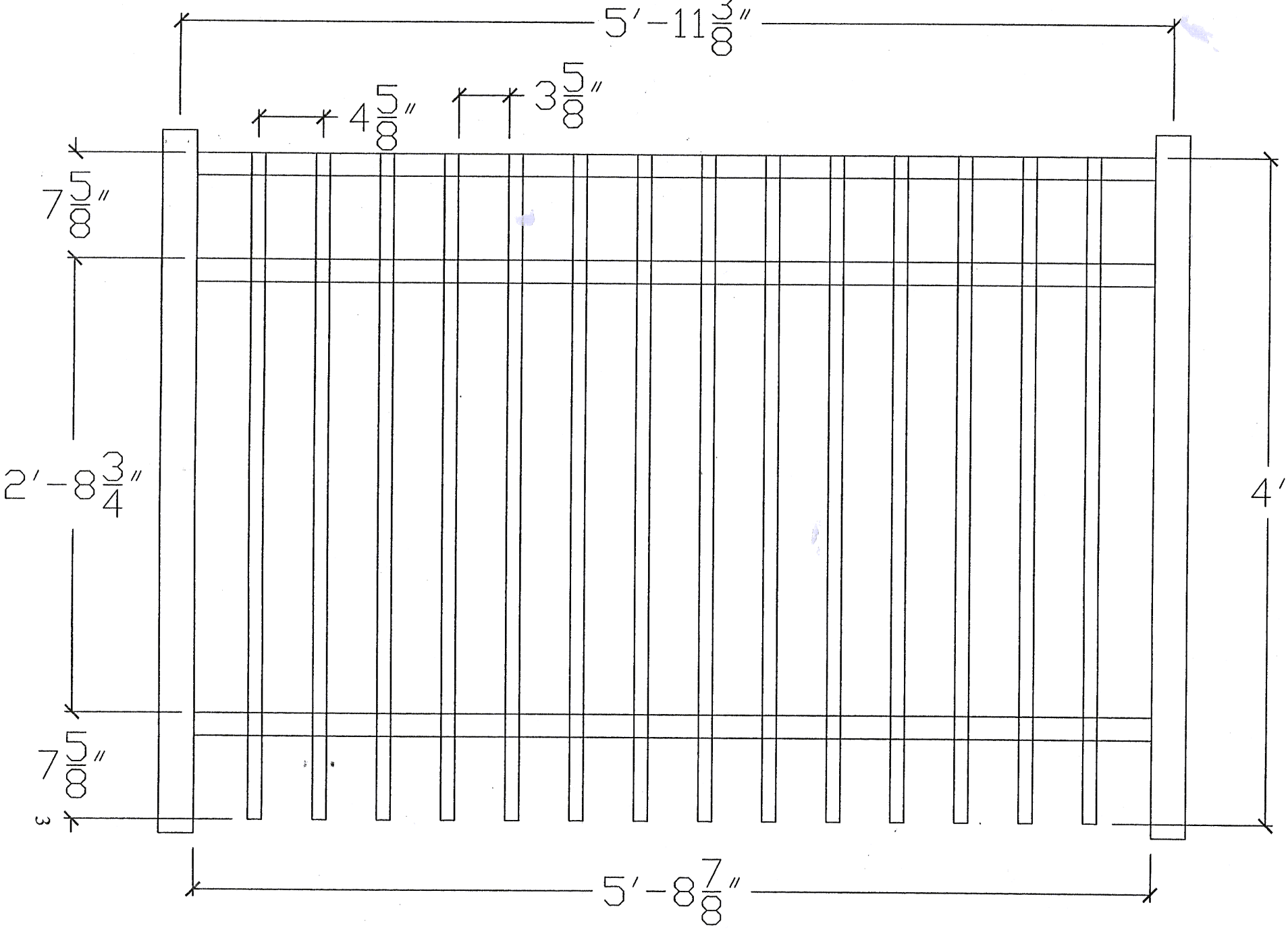
Posts	2½" x 2½" x .100 Wall 3" x 3" x .125 Wall 4" x 4" x .125 Wall
Horizontal Rails Enclosed Bottom Side Walls Top Walls	1⅝" x 1⅝" Available .100" .070"
Pickets Picket Spacing	1" x 1" x .062 Wall 3⅝" or 1½
Available Heights	3, 4, 5, 6, 7, 8, 9, & 10 Ft.

Note: Panels with decorative circles or butterflies have 13 pickets with picket spacing of 4 "

DIMENSIONS

HT	A	B	C	E	F
3'	7⅝"	20¾"	7⅝"	Per Local Code	
4'	7⅝"	32¾"	7⅝"	Per Local Code	
5'	7⅝"	44¾"	7⅝"	Per Local Code	
6'	7⅝"	56¾"	7⅝"	Per Local Code	
7'	10⅝"	62¾"	10⅝"	Per Local Code	
8'	10⅝"	74¾"	10⅝"	Per Local Code	
9'	13⅝"	80¾"	13⅝"	Per Local Code	
10'	13⅝"	92¾"	13⅝"	Per Local Code	

Project:	
Owner:	
Submitted By:	Date:


5′-11 3/8″
4 5/8″
3 5/8″
7 5/8″
2′-8 3/4″
7 5/8″
3
4′
5′-8 7/8″

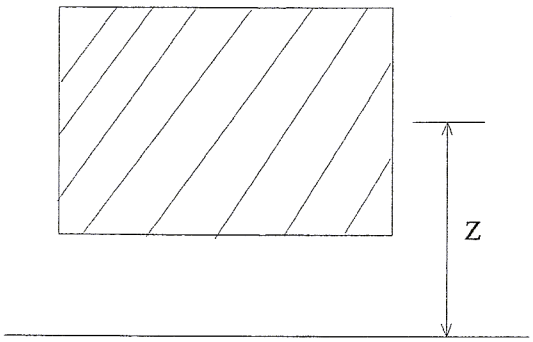
Archwind 98 :

WIND PRESSURE

OPEN STRUCTURE
OPEN SIGNS OR LATTICE FRAMEWORKS

Applied Wind Pressure = 113.19 psf
Center height = 2.20 ft
Apply pressure in both directions.

If pressure is less than 10 psf, use 10 psf for design.
Apply pressure over area of review.



Archwind 98 :

CONSTANTS USED

OPEN STRUCTURE
OPEN SIGNS AND LATTICE FRAMEWORKS

Note, a sign or wall is considered open if openings are greater than 30% of the gross area.
Height to center of structure, Z = 2.20 ft
Gross area of structure = 26.60 sf
Solid area of structure = 7.07 sf
Members are flat members.
Cf = 1.80
G = 0.85
Velocity Pressure, q = 73.98 psf
Exposure Coeff., Kz = 0.85
Wind Speed, V = 200.0 MPH ←
Exposure Cat. = C
Importance Cat. = 2
Topographic Factor, Kzt = 1.00
Wind Direction Factor, Kd = 0.85
Pressure calculation is based on ASCE 7-98, Eq. 6-20