

[RUSHED STAINLESS STEEL BACKGROUND—McCANN FABRICATION]

3/4" THICK FLAT CUT-OUT ACRYLIC GRAPHICS PAINTED TO MATCH PANTONE 2757 (BLUE LETTERS & SMALL RECTANGLE), PANTONE 5625 (GREEN SQUARE) AND WHITE (RULE)

GREEN SQUARE INCISED WITH MINIMAL RELIEF TO RECEIVE RULE, CO-PLANAR

GRAPHICS ADHERED TO BACKGROUND WITH EPOXY ADHESIVE USING INSET 1/4" SPACERS; SMALL BLUE RECTANGLE ADHERED FLUSH TO GREEN SQUARE AND RULE WITH EPOXY ADHESIVE; NOTE: ADD STUDS TO RULE AS NEEDED
SEE MOUNTING DETAILS, DRAWING 2

SINGLE FACE NON-ILLUMINATED WALL SIGN

SCALE: 1"=1'-0" (1) REQUIRED

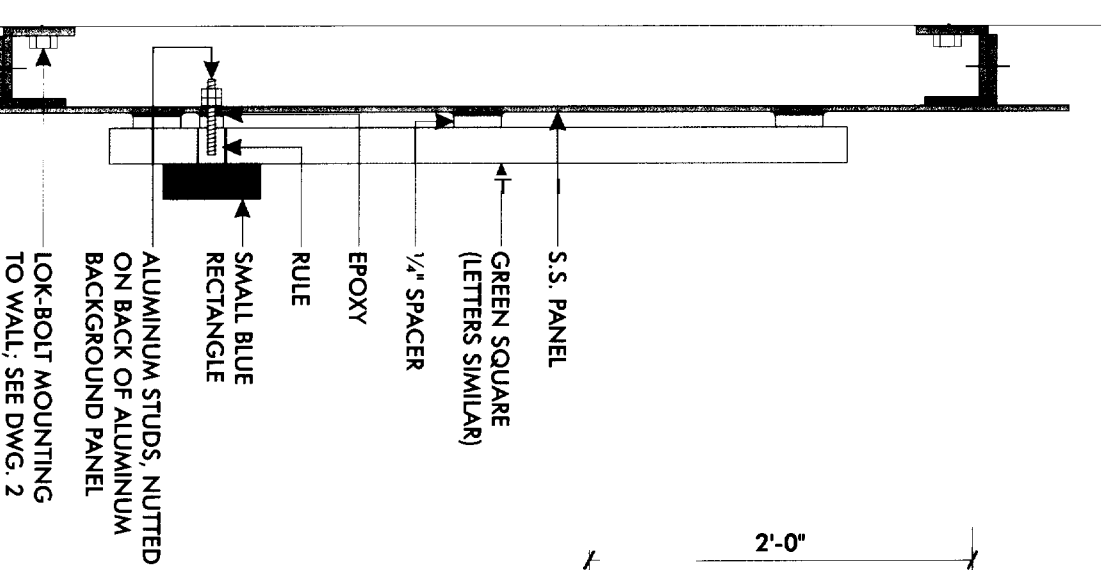


PHOTO-COMPOSITE

NOT TO SCALE

SECTION

SCALE: 3"=1'-0"



Assumptions and Facts

The point of failure will be the aluminum screws in shear at the minor thread diameter.
144 mph wind speed is equal to 82.7 lbs./sq. ft. (0.574 lbs./sq.in.)
Tensile strength at break for 3003 Aluminum is 16,000 psi.
Minor thread area in shear of a 10-24 aluminum screw is .015 sq. in. at 2 threads depth.
Therefore, each screw has a holding force in shear of 240 lbs..
Average face area of a sign letter is 0.6 x height squared.

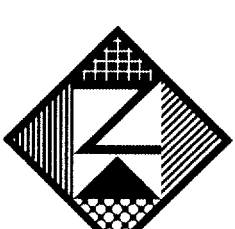
Wind Load Calculations on Cast or Flat Cut-out Gennini Letters

Size	Wind Face Load lbs.	Wind Side Load lbs.	Screw Shear Strength lbs. Force
6	12	5	720
12	50	11	960
14	68	15	960
18	112	22	960
24	198	36	1440
36	447	65	1920

Gennini Letter Data

Height in.	Face Area sq.in.	Side Area sq.in.	Screws each	Screw Area psi.	Total Screw sq.in.
6	21.6	9	3	0.015	0.045
12	86.4	18	4	0.015	0.06
14	117.6	24.5	4	0.015	0.06
18	194.4	36	4	0.015	0.06
24	345.6	60	6	0.015	0.09
36	777.6	108	8	0.015	0.12

Neokraft
SIGN S



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Pierce Promotions
3069

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Portland, ME
Drawing No.: 1 of 2
Drawn by: DS
Date: 12.22.2004
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