SOUND WALL PROFILE

- AREA = 6.013 IN²
- Ixx = 12.872 IN⁴
- Sxx = 7.355 IN³
- WT = 4.5 LB/FT

An Company
Composite Structures

REV  DESCRIPTION  DATE  BY
0  FOR REVIEW/QUOTATION  08-22-05  EAL
0  CHANGED MANDREL RADIUS  10-18-05  EAL

SOUND WALL PANEL

B-01307
NOTES:
1. Site specific designs must be performed by a registered professional engineer who verifies wind load requirements and actual soil conditions.
2. Wind loads are per Guide Specifications for Structural Design of Sound Barriers, Copyright 1989 and Interim Revisions.
5. Final deflections must be verified based on the criteria of the local governing body.
ALTERNATE SOLDIER PILE CONFIGURATION

1 ELEVATION

SOLDIER PILE
PROPOSED GRADE
FIBERGLASS PANEL
EMBEDED ANCHORS
DRILL SHAFT

DRILL SHAFT DIAMETER

EMBED PENETRATION

1015 W. Broadway, Fort Worth, Texas 76104
Consulting Engineers
Fax (817) 336-8620
fwna-eng.com
(817) 332-1944

* Registered Brand in Tarrant County
SOLDIER PILE

FIBERGLASS PANEL

L3x3x1/4

1/4 2@4

TYPICAL SOUND WALL-WELDED ANGLE

1 SECTION

FRANK W. NEAL & ASSOC, INC.

SOLDIER PILE DESIGN DRAWINGS FOR:

FIBERGRATE

SOUND WALL

FWNA PROJECT # 205622
PLAN

TYPICAL CORNER CONDITION

1/4 2@4

1/4

1/4 PLATE

BENT P 3x5x5/16

FIBERGLASS PANEL TYP.

NOTE: ADJUST BEAM DEPTH AS REQ'D. TO ALLOW PANEL INSTALLATION PER REQ'D. ANGLE DEVIATION.

SOLDIER PILE

PLANK RESTRAINT HARDWARE GALVANIZED
A325 5/8"Ø BOLT. SET 2 1/2" FROM TOP OF POST. (1) PER POST / PANEL ONLY

1/4 PLATE

1/4

1/4

1/4

2@4

2@4

2@4

NOTE: ADJUST BEAM DEPTH AS REQ'D. TO ALLOW PANEL INSTALLATION PER REQ'D. ANGLE DEVIATION.

2 DETAIL

TYPICAL CORNER CONDITION

PLANK RESTRAINT HARDWARE GALVANIZED A325 5/8"Ø BOLT. SET 2 1/2" FROM TOP OF POST. (1) PER POST / PANEL ONLY

FIBERGLASS PANEL TYP.

L3x3x1/4

NOTE: ADJUST BEAM DEPTH AS REQ'D. TO ALLOW PANEL INSTALLATION PER REQ'D. ANGLE DEVIATION.

SOLDIER PILE

BENT P 3x5x5/16

1/4 PLATE

1/4

1/4

1/4

2@4

2@4

FWNA PROJECT # 205622

FIBERGRATE SOUND WALL

S4

SOLDIER PILE DESIGN DRAWINGS FOR:

REVISIONS

DATE: 09-08-06

SHEET #
TYPICAL SOUND WALL-BOLTED ANGLE

SECTION 1

SOLDIER PILE
FIBERGLASS PANEL
L3x3x1/4

5/8"Ø GALV. A325 BOLTS
6" FROM END OF ANGLE
& 1'-6" O.C. MAX. TYP.
PLAN
TYPICAL CONDITION- WELDED

DETAIL 1

FIBERGLASS PANEL TYP.

L3x3x1/4

1/4 2@4

SOLDIER PILE

NOTE: ADJUST BEAM DEPTH AS REQ'D. TO ALLOW PANEL INSTALLATION PER REQ'D. ANGLE DEVIATION.

PLAN
TYPICAL CONDITION- BOLTED

DETAIL 2

FIBERGLASS PANEL TYP.

L3x3x1/4

5/8" Ø GALV. A325 BOLTS 6" FROM END OF ANGLE & 1'-6" O.C. MAX. TYP.

SOLDIER PILE

NOTE: ADJUST BEAM DEPTH AS REQ'D. TO ALLOW PANEL INSTALLATION PER REQ'D. ANGLE DEVIATION.