



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov

Rubb, Inc.
1 Rubb Lane
Sanford, Maine 04073

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Ferrari Preconstraint 1002 T Tensioned Arch. Textile Fabric Membrane

APPROVAL DOCUMENT: Drawing No. 29810, titled "8' x 16' Test Panel Frame Apparatus Steel work Details, dated May 8, 1998, last revision #D dated May 18, 2000, one sheet, and Drawing No. 29811, titled "8' x 16' Test Panel PVC Details", dated May 8, 1998, last revision #F dated May 18, 2000, one sheet, both drawings signed and sealed by N Dennis Eryou, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each structure shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 03-0512.01** and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
 04/10/2008

NOA No. 08-0303.02
Expiration Date: 06/08/2009
Approval Date: 04/10/2008

Rubb, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 98-1117.01

A. DRAWINGS

1. *Drawing No. 29810, titled "8' x 16' Test Panel Frame Apparatus Steelwork Details", prepared by N Dennis Eryou, P.E., dated May 8, 1998, last revision #D dated May 18, 2000, one sheet, and Drawing No. 29811, titled "8' x 16' Test Panel PVC Details", prepared by N Dennis Eryou, P.E., dated May 8, 1998, last revision #F dated May 18, 2000, one sheet, signed and sealed by N Dennis Eryou, P.E.*

B. TESTS

1. *Test Report No. HETI-98-758, dated October 15, 1998, prepared by Hurricane Engineering & Testing, Inc., on Large Missile Impact Test, PA 201-94, and Cyclic Wind Pressure Test, PA 203-94, signed and sealed by Hector M. Medina, P.E.*

C. CALCULATIONS

1. *Calculations titled "Calculations for test panel Dade County Approval" prepared by N Dennis Eryou, P.E., dated October 27, 1998, 24 sheets, signed and sealed by N Dennis Eryou, P.E.*

D. MATERIAL CERTIFICATIONS

1. *Ferrari Preconstraint 1002 T Tensioned Architecture Textile Fabric Membrane shall be per Product Control Approval #96-1126.16.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #03-0512.01

A. DRAWINGS:

1. *None.*

B. TESTS:

1. *None.*

C. CALCULATIONS:

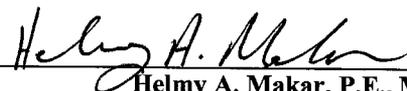
1. *None.*

D. MATERIAL CERTIFICATION:

1. *None.*

E. OTHERS

1. *Letter from Rubb, Inc., dated May 8, 2003, signed by Mr. Gordon S. Collins, Jr., stating that Rubb, Inc. has made no changes to the product.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-0303.02
Expiration Date: 06/08/2009
Approval Date: 04/10/2008

Rubb, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS:

1. *None.*

B. TESTS:

1. *None.*

C. CALCULATIONS:

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATION:

1. *None.*

F. OTHERS

1. *Letter from N Dennis Eryou, P.E., dated February 20, 2008, signed and sealed by N Dennis Eryou, P.E., stating that he is the Engineer of Record on this product, he is still practicing engineering in Florida, and this product in compliance with Florida Building Code.*



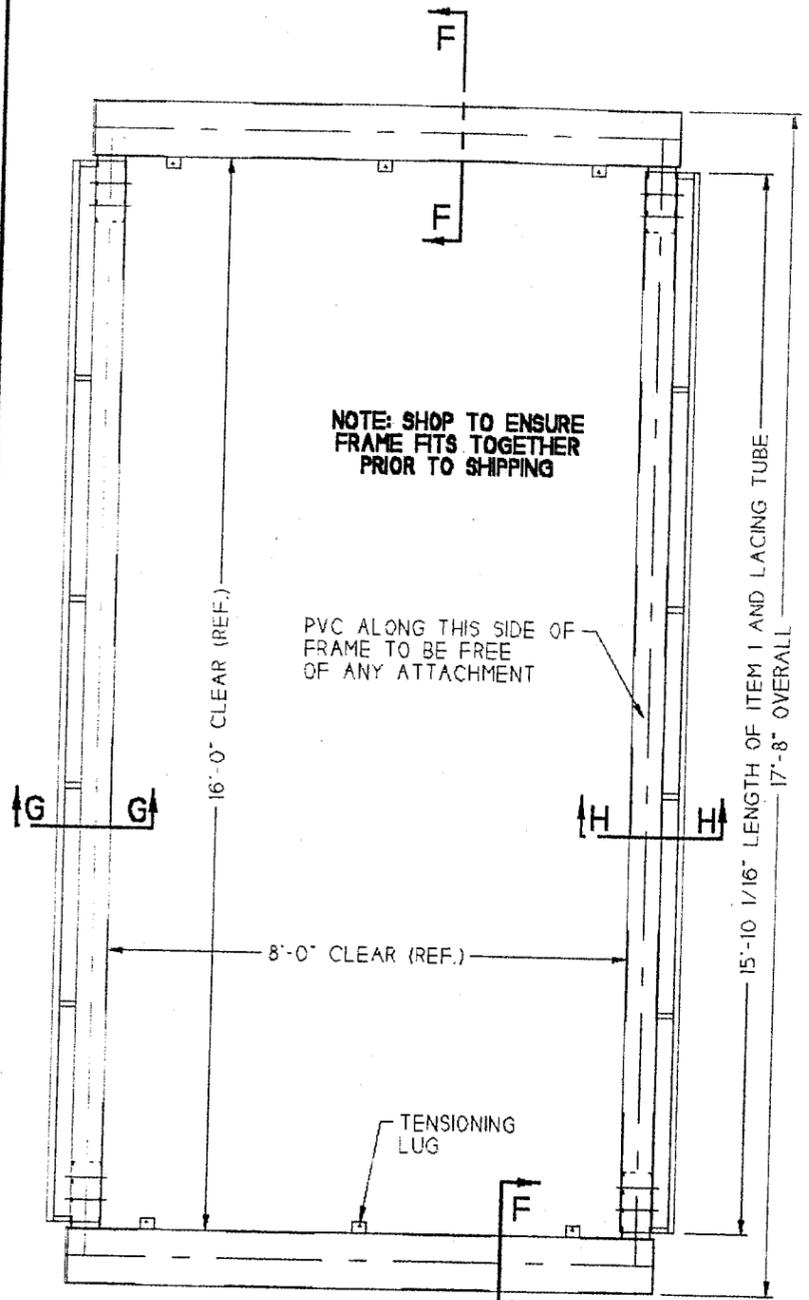
Helmy A. Makar, P.E., M.S.

Product Control Examiner

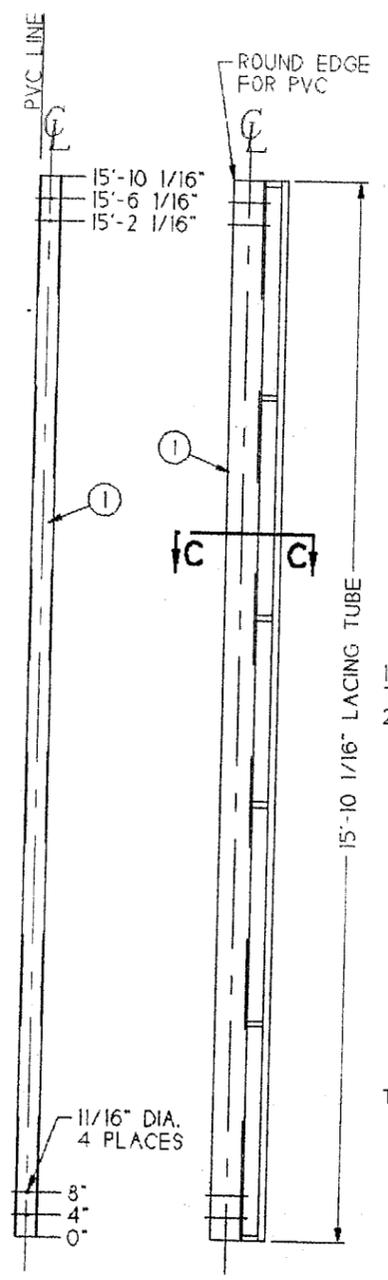
NOA No. 08-0303.02

Expiration Date: 06/08/2009

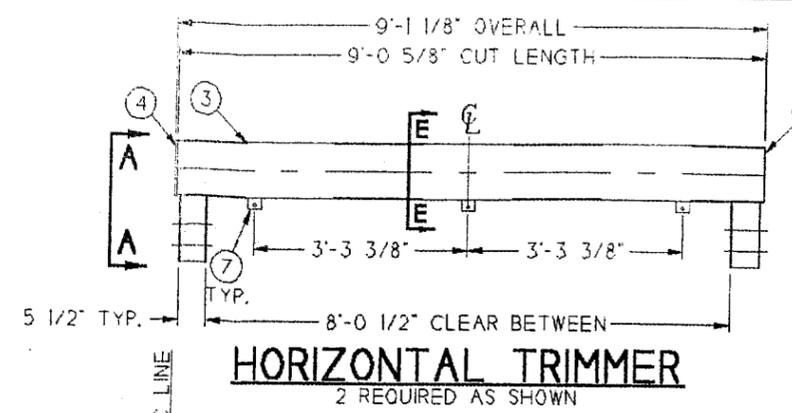
Approval Date: 04/10/2008



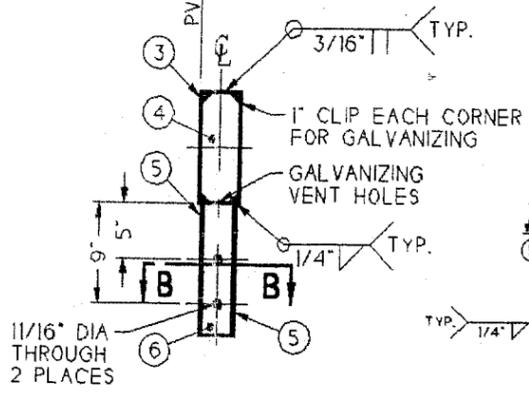
ASSEMBLY VIEW
VIEW ON INSIDE
1 REQUIRED AS SHOWN



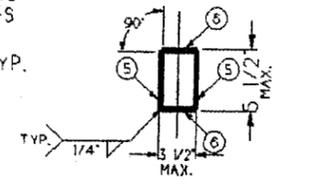
VERTICAL TRIMMER
2 REQUIRED AS SHOWN



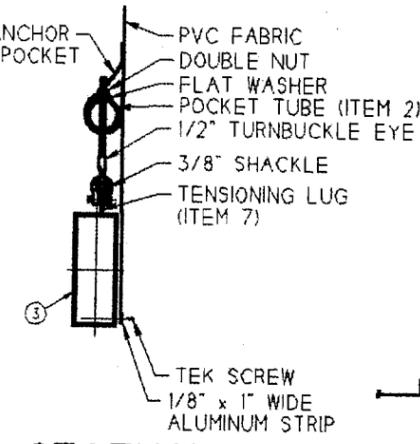
HORIZONTAL TRIMMER
2 REQUIRED AS SHOWN



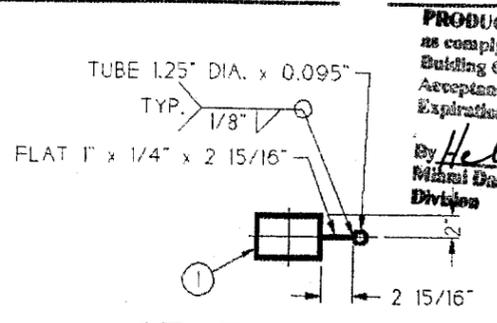
SECTION 'A-A'
2x SCALE



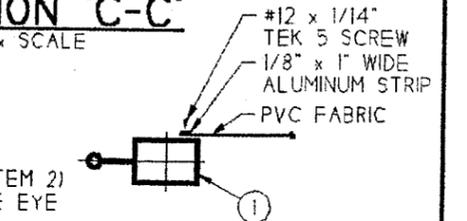
SECTION 'B-B'
2x SCALE



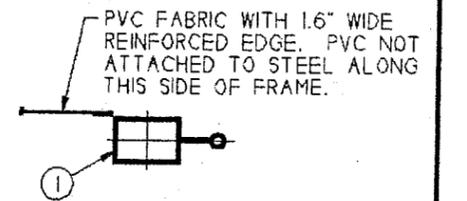
SECTION 'F-F'
SHOWING PVC ANCHORED TO FRAME USING ANCHOR TUBE & POCKET
2x SCALE



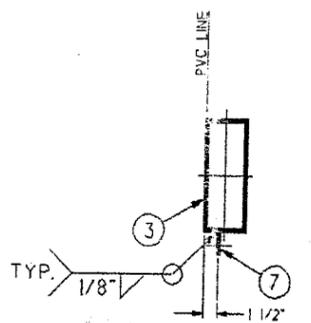
SECTION 'C-C'
2x SCALE



SECTION 'G-G'
SHOWING PVC CONTINUOUSLY AFFIXED TO BOX FRAME
2x SCALE



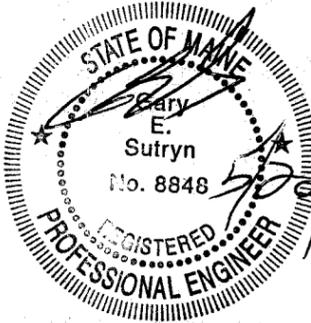
SECTION 'H-H'
SHOWING PVC NOT ATTACHED TO BOX FRAME
2x SCALE



SECTION 'E-E'
2x SCALE

NOTES:
1.) ALL TEST MOCK-UP METAL DETAILS AND SECTIONS SHOWN ON THIS DRAWING ARE NOT PART OF THIS PRODUCT APPROVAL. ACTUAL PROJECTS SHALL USE POCKET TUBES TO SUPPORT THE FABRIC AS SHOWN IN SECTION "F-F". THE SUPPORTING TUBE AND ALL OF THE HARDWARE AS WELL AS THE TENSION IN THE FABRIC SHALL BE DESIGNED BY A FLORIDA REGISTERED ENGINEER ON A CASE BY CASE BASIS AND REVIEWED BY THE CORRESPONDING BUILDING PLANS EXAMINER. THE TUBE SHALL BE CONTINUOUS.
2.) THE MAXIMUM DESIGN TENSION IN FABRIC - 1800# / FT.
3.) THE WIDTH OF THE FABRIC IS UNLIMITED.
4.) THIS MEMBRANE FABRIC IS TESTED IN ACCORDANCE WITH THE FOLLOWING:
PA201-94, IMPACT TEST, LARGE MISSILE
PA203-94, CYCLIC WIND PRESSURE TEST

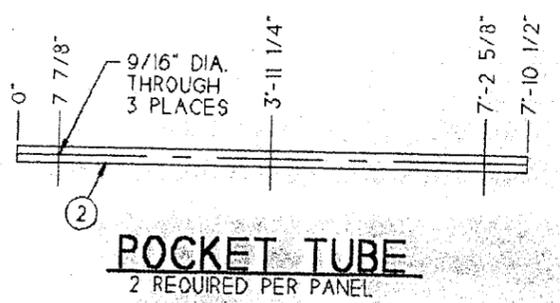
Handwritten: S. 24-00
#46888



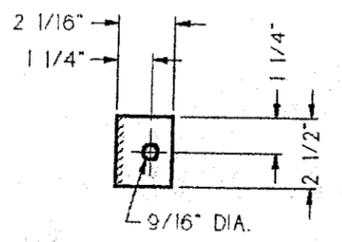
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE June 08, 2000
BY Helmut A. Muehler
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 98-1117-01

NOTES:
1.) BREAK SHARP CORNERS FOR PVC.
2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
3.) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
4.) UNLESS DIMENSIONS ARE IN MILLIMETERS.
5.) VENT FOR GALVANIZING AS REQUIRED.
6.) Fy - 50 KSI MIN FOR A500B MATERIAL.

REV	DESCRIPTION	AR	DATE
D	INCREASED TEXT SIZE	AR	08/15/00
C	ADDED NOTES, SECTION "H-H" AND CHANGED DIMENSIONS TO FEET AND INCHES	AR	
B	ADDED FERRARI SPECIFICATIONS CHART	DFA	GES 12-9-98
A	GENERAL REVISIONS	DTM	GES 10-26-98



POCKET TUBE
2 REQUIRED PER PANEL



DETAIL ITEM 7
"52 LUG" - 5x SCALE

ITEM	QTY.	DESCRIPTION	SPEC.
1	2	TS 6" x 4" x 3/16" x 15'-10 1/16"	A500B
2	2	TUBE 3" DIA. x 0.156" x 7'-10 1/2"	A500B
3	2	TS 10" x 4" x 1/4" x 9'-0 5/8"	A500B
4	2	FLAT 4" x 1/4" x 10"	A36
5	3	FLAT 5" x 1/4" x 11 13/16"	A36
6	3	FLAT 3" x 1/4" x 11 13/16"	A36
7	5	FLAT 2 1/2" x 3/8" x 2 1/16"	A36

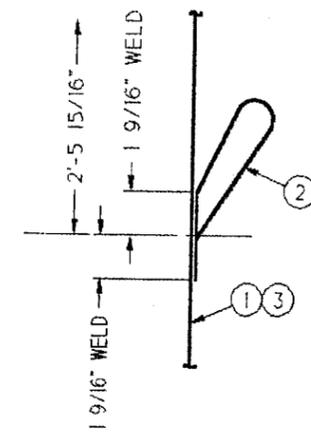
PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 03-0512.01
Expiration Date 06/08/2008
By Helmut A. Muehler
Miami Dade Product Control Division

RUBB
BUILDING SYSTEMS
GLJ 5-5-98
GES 5-8-98
DATE: UAL MIA
RUBB INC. 8450 NW 11th Ave
TEL: 305-224-2577 FAX: 305-224-2347
29310

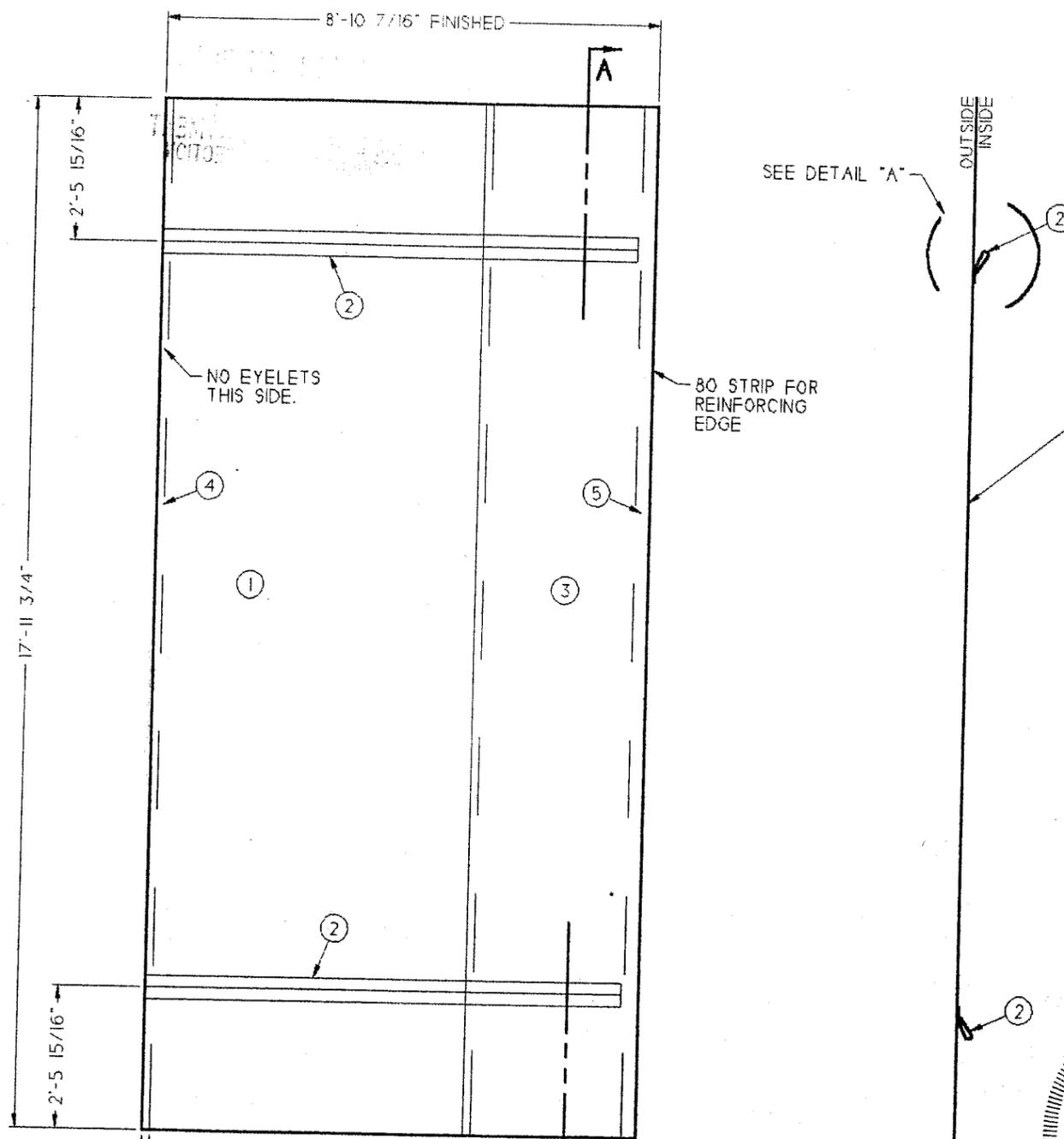
CUTTING LIST

ITEM	QTY.	WIDTH	LENGTH	COLOR	MATERIAL	AREA
1	1	5'-10 7/8"	17'-11 3/4"	WHITE	NON-TED	106.2 sq. ft.
2	2	1'-10 1/16"	8'-6 1/2"	WHITE	NON-TED	15.7 sq. ft.
3	1	3'-1 3/16"	17'-11 3/4"	WHITE	NON-TED	55.7 sq. ft.
4	1	1 9/16"	17'-11 3/4"	WHITE	NON-TED	2.3 sq. ft.
5	1	3 1/8"	17'-11 3/4"	WHITE	NON-TED	4.7 sq. ft.
TOTAL COLOR						0.0
TOTAL WHITE						184.6 sq. ft.

NOTES:
 1.) SEE FERRARI MANUFACTURER'S SPECIFICATIONS CHART ON THIS DRAWING FOR ALL PROPERTIES.
 2.) ITEM 2 IS AN ANCHOR TUBE POCKET.
 3.) CUTTING LIST IS FOR ONE PANEL.



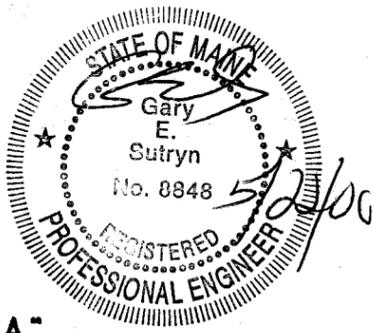
DETAIL "A"
5x SCALE



FERRARI PRECONSTRAINT 1002T TENSIONED ARCHITECTURE TEXTILE FABRIC PER PRODUCT CONTROL APPROVAL #96-1126-16

FERRARI MANUFACTURER'S SPECIFICATIONS:

WIDTH:	71"
BASE FABRIC:	POLYESTER 1100 x 2/1100 Dtex
COATING:	PVC
FINISHED COATED WEIGHT:	31 Oz/sqyd
COATED FABRIC THICKNESS:	.031 in.
GRAB TENSILE STRENGTH Method 5100:	Warp 735/Fill 705 lbs.
STRIP TENSILE STRENGTH Method 5102:	Warp 440/Fill 435 lbs./1.inch
TONGUE TEAR STRENGTH Method 5134:	Warp 115/Fill 105 lbs
TRAPEZOID TEAR STRENGTH Method 5136:	Warp 74/Fill 73 lbs
ADHESION (NFG 31107):	26 lbs/2"
COATING THICKNESS AT THE TOP OF THE YARNS:	350 microns
FLAME RETARDENCY: NFPA 701/California State Fire Marshall/DIN 4102 B1 (Germany) BS 5438/5867 Part 2a & 2b (UK)/SIS 650082 (Scandinavia)/NF M2 (France)	



Handwritten: 5-24-00 #46888

SEPARATE 1 9/16" STRIP WELDED CONTINUOUSLY ALONG EDGE.

SEPARATE 3 1/8" STRIP WELDED CONTINUOUSLY WITH TWO 40 WELDS ALONG EDGE.

VIEW ON INSIDE
SEE PACKING LIST FOR QUANTITY

SECTION "A-A"
NOTE POCKET ORIENTATION

PRODUCT RENEWED as complying with the Florida Building Code
 Acceptance No. 03-0512.01
 Expiration Date 06/08/2008
 By *Helmut A. Mahr*
 Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE: *June 08, 2000*
 By *Helmut A. Mahr*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. *98-1117-01*

PRODUCT RENEWED as complying with the Florida Building Code
 Acceptance No. 08-0303.02
 Expiration Date 06/08/2009
 By *Helmut A. Mahr*
 Miami Dade Product Control Division

REV	DESCRIPTION	BY	DATE
H	INCREASED TEXT SIZE AND ADDED NOTE	AR	08/09/00
G	CHANGED DIMENSIONS TO FEET AND INCHES	AR	
F	MODIFIED NOTE 1 AND ADDED FERRARI SPECIFICATIONS CHART	DFA	GES 12-9-98
E	REVISED WORDING IN NOTE 1	DFA	GES 10-26-98
D	REPLACED RIGHT EYELET SEAM WITH 80 STRIP FOR REINFORCING EDGE	AR	GES 10-13-98
C	REMOVED LEFT EYELET. ADDED 40 STRIP MODIFIED RIGHT EYELET SEAM	MJG	GES 10-6-98
B	INCREASED SIZE OF ANCHOR TUBE POCKET AND ADJUSTED DIMENSION FOR LOCATION	AR	GES 8-3-98
A	INCREASED SIZE OF ANCHOR TUBE POCKET AND ADJUSTED DIMENSION FOR LOCATION	AR	GLJ 6-16-98

8' x 16' TEST PANEL
PVC DETAILS

GLJ 5-5-98
GES 5-8-98

SCALE 1:15
JOB NO. 98017
JOB SITE UAL MIA

RUBB INC. MANFORD MAINE 04093
TEL 207-254-2577 FAX 207-254-2579