



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Aluvetro SRL
30 Chapin Road, Suite 1205
Pine Brook, NJ 07058

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section 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: GARDA SP200 and SP300 Postless Glass Railing System - LMI

APPROVAL DOCUMENT: Drawing No. 20-06D, titled "GARDA SP200/SP300 Postless Glass Railing Systems", sheets 1 through 6 of 6, dated 01/27/20, last revision A dated 07/12/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., on August 09, 2021, bearing Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit 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. The structural adequacy of the supporting structures is not part of this approval & shall be reviewed by the corresponding Building Dept.

This NOA **revises NOA #20-0708.05** 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
11/04/2021

NOA No. 21-0812.02
Expiration Date: 06/25/2025
Approval Date: 11/04/2021
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL 20-0330.07

A. DRAWINGS

1. *Drawing No. 20-06D, titled " GARDA SP300 Postless Glass Railing System ", sheets 1 through 4 of 4, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., on March 08, 2020.*

B. TESTS

1. *Test Report No. BT-AUV-18-001, by Blackwater Testing, Inc., dated January 29, 2020, signed and sealed by Constantin Bortes, P.E.*

C. CALCULATIONS

1. *Calculation titled "Series SP300 Postless Railing System (LMI), 17 sheets, dated January 24, 2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., on March 08, 2020.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. OTHERS

1. *Florida Building Code, 2017 Edition, compliance letter, dated January 24, 2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., on March 08, 2020.*
2. *Distributor Agreement, dated February 07, 2020, signed by Paolo Foroni (manufacturer) and Emil Rosado (Distributor).*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL 20-0708.05

A. DRAWINGS

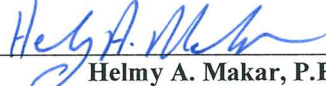
1. *Drawing No. 20-06D, titled " GARDA SP300 Postless Glass Railing System ", sheets 1 through 4 of 4, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., on June 26, 2020.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Calculation titled "Series SP300 Postless Railing System (LMI), 17 sheets, dated January 24, 2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., on June 26, 2020.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 21-0812.02
Expiration Date: 06/25/2025
Approval Date: 11/04/2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. OTHERS

1. *Florida Building Code, 2017 Edition and 2020 Edition, compliance letter, dated January 24, 2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., on June 26, 2020.*
2. *Distributor Agreement, dated February 07, 2020, signed by Paolo Foroni (manufacturer) and Emil Rosado (Distributor).*

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 20-06D, titled "GARDA SP200/SP300 Postless Glass Railing Systems", sheets 1 through 6 of 6, dated 01/27/20, last revision A dated 07/12/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., on August 09, 2021.*

B. TESTS

1. *Test Report No. BW-ALU-21-001, by Blackwater Testing, Inc., dated June 06, 2021, signed and sealed by Constantin Bortes, P.E.*

C. CALCULATIONS

1. *Calculation titled "Series SP200/SP300 Postless Railing System (LMI), 33 sheets, dated August 09, 2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., on August 09, 2021.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. OTHERS

1. *Florida Building Code, 2020 Edition, compliance letter, dated August 09, 2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., on August 09, 2021.*
2. *Distributor Agreement, dated February 07, 2020, signed by Paolo Foroni (manufacturer) and Emil Rosado (Distributor).*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor

NOA No. 21-0812.02

Expiration Date: 06/25/2025

Approval Date: 11/04/2021

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

SERIES GARDA SP-AP 200
SERIES GARDA SP-AP 300
POSTLESS GLASS RAILING SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND FLOOR DRESSING.

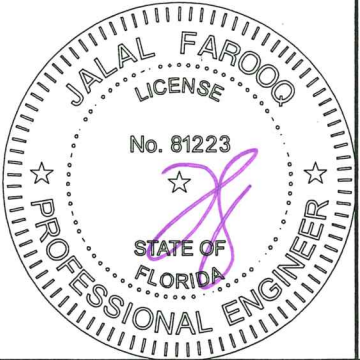
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

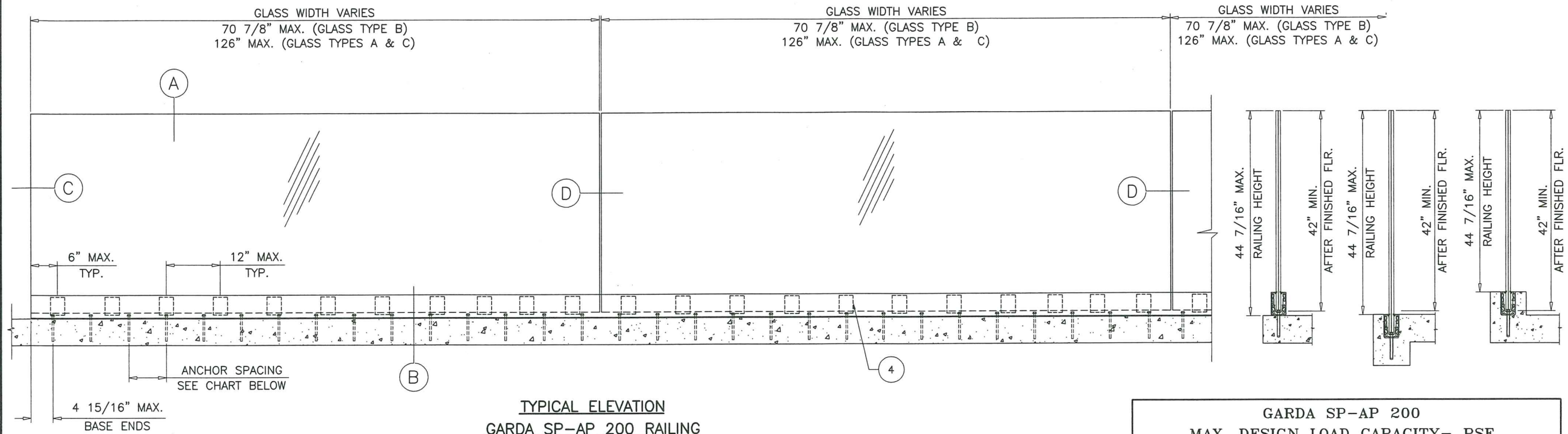
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0812-02
Expiration Date 06/25/2025
By *[Signature]*
Miami Trade Product Control

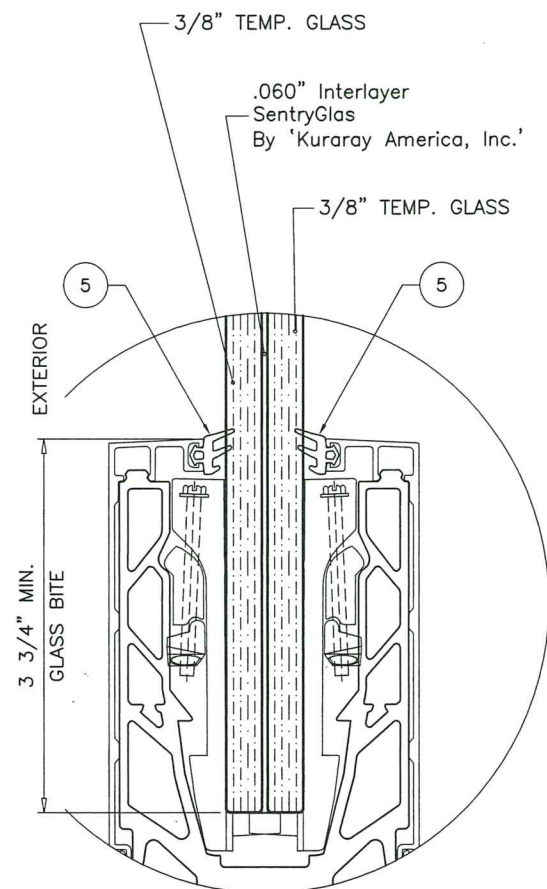
AUG 09 2021



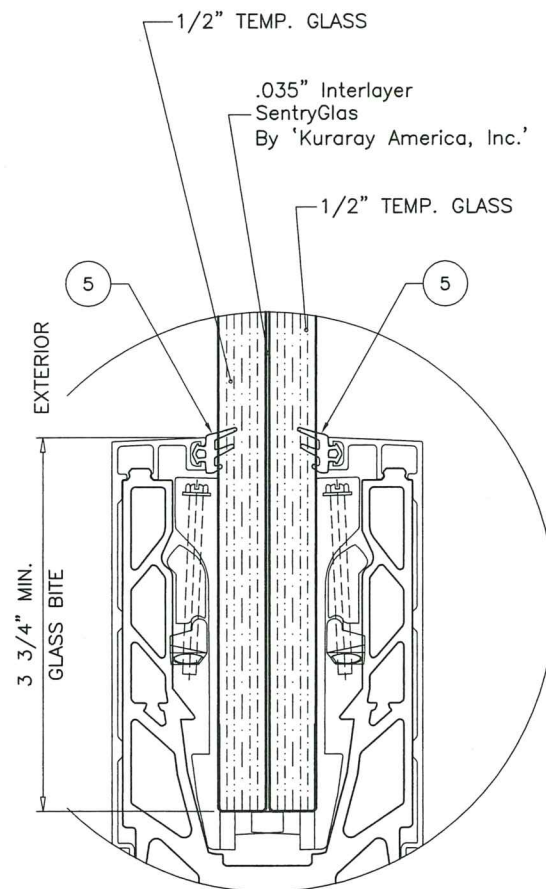
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978		RAILING\20-06D-ALU	
GARDA SP-AP 200/SP-AP 300 POSTLESS GLASS RAILING		Aluetro Via Lombardia 4/6 25034 Orzinuovi (BS) - ITALIA Phone: +39 030 9444433 Fax: +39 030 9946653	
revisions:	no	date	by
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dr. by:	TARIQ	chk. by:	
drawing no.	20-06D		
sheet	1 of 6		



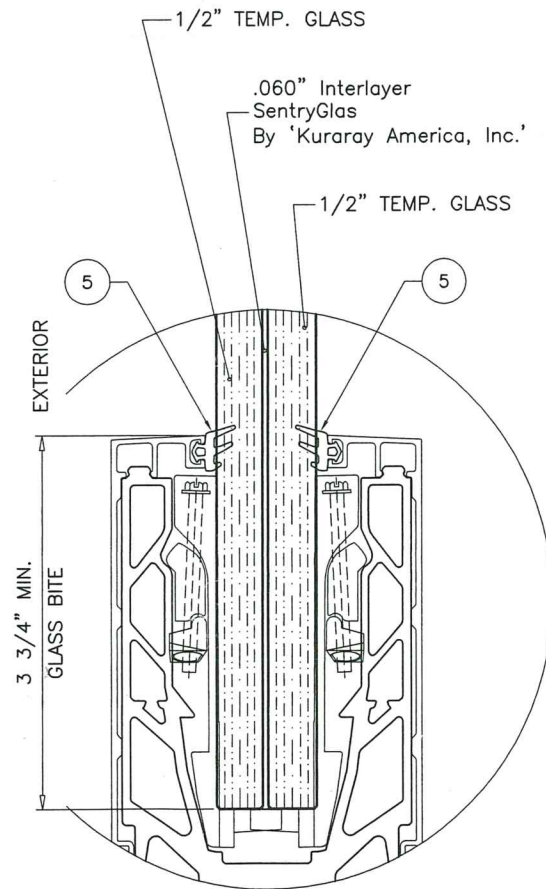
TYPICAL ELEVATION
GARDA SP-AP 200 RAILING



GLASS TYPE 'A'



GLASS TYPE 'B'



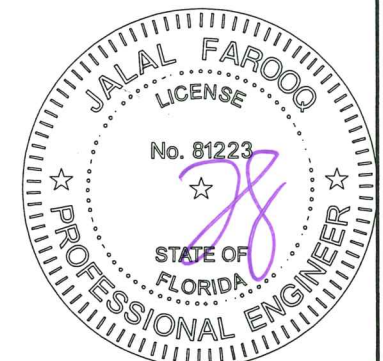
GLASS TYPE 'C'

GARDA SP-AP 200 MAX. DESIGN LOAD CAPACITY- PSF					
SUBSTRATE	ANCHOR EDGE DIST.	ANCHOR TYPES	ANCHOR SPACING		
			4.9\" MAX.	6\" MAX.	9.8\" MAX.
3000 PSI CONCRETE	4-1/2\" MIN.	A	72.7	62.0	39.6
		AA	90.0	90.0	57.3
		B	56.9	50.2	36.8
		BB	73.2	63.5	46.9
4000 PSI CONCRETE		A	86.1	73.5	46.9
		AA	90.0	90.0	67.6
3000 PSI CONCRETE	3-1/2\" MIN.	A	65.0	55.5	35.4
		AA	89.9	79.9	50.2
		B	53.5	47.1	34.6
		BB	69.0	59.8	44.1
4000 PSI CONCRETE		A	77.2	65.9	42.0
		AA	90.0	90.0	59.4
3/8\" THK. A36 STEEL	1\" MIN.	C	90.0	90.0	62.1
		CC	90.0	90.0	90.0

SEE SHEET 4 FOR ANCHOR DESCRIPTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0812-02
Expiration Date 06/25/2025
By *Heidi A. Miller*
Miami Date Product Control

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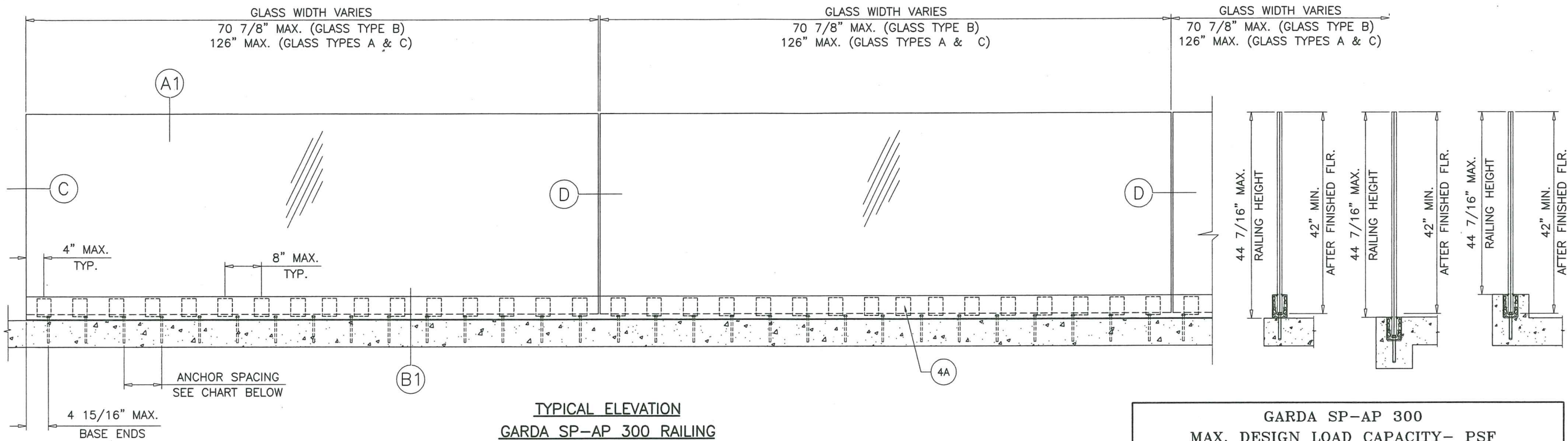
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

GARDA SP-AP 200/SP-AP 300 POSTLESS GLASS RAILING

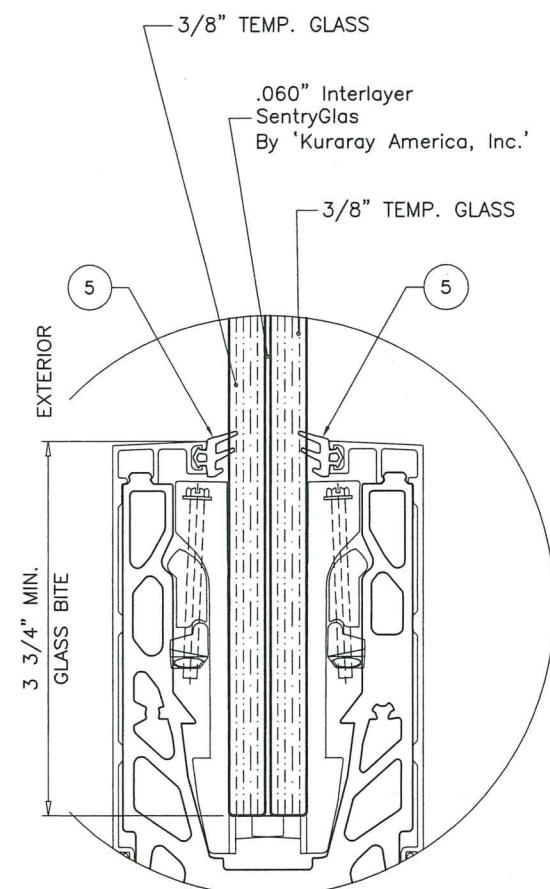
Aluetro
Via Lombardia 4/6
25034 Orzinuovi (BS) - ITALIA
Phone: +39 030 9444433 Fax: +39 030 9946653

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drawing no. 20-06D			
sheet 2 of 6			

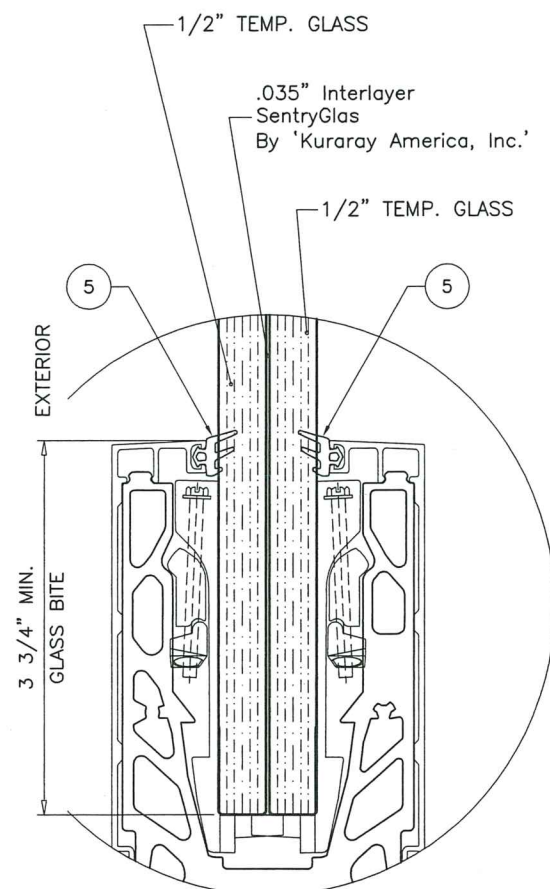


TYPICAL ELEVATION
GARDA SP-AP 300 RAILING

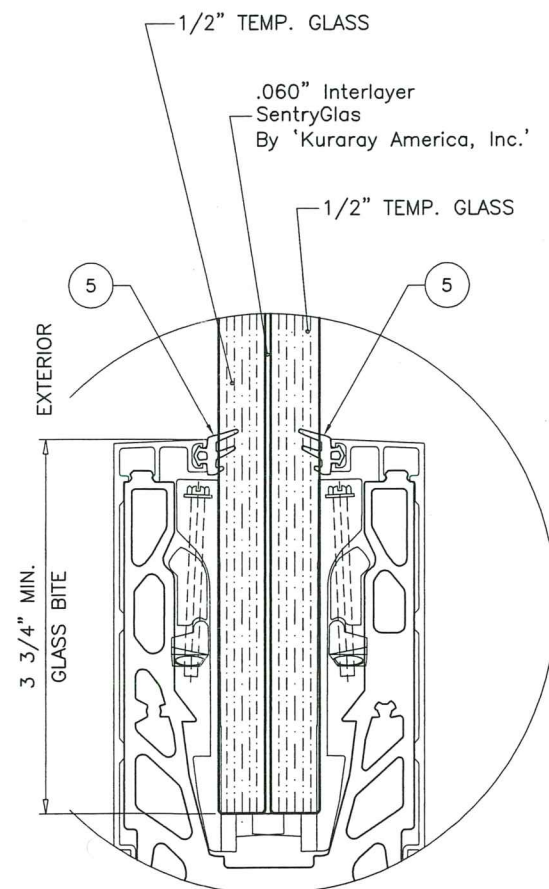


GLASS TYPE 'A'

MAX. LOADS FOR GLASS TYPE 'A' = ± 90.0 PSF



GLASS TYPE 'B'



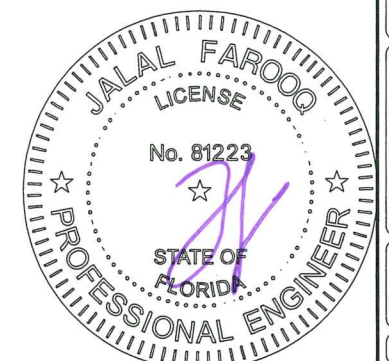
GLASS TYPE 'C'

GARDA SP-AP 300 MAX. DESIGN LOAD CAPACITY- PSF					
SUBSTRATE	ANCHOR EDGE DIST.	ANCHOR TYPES	ANCHOR SPACING		
			4.9" MAX.	6" MAX.	9.8" MAX.
3000 PSI CONCRETE	4-1/2" MIN.	A	72.7	62.0	39.6
		AA	102.6	91.2	57.3
		B	56.9	50.2	36.8
		BB	73.2	63.5	46.9
4000 PSI CONCRETE		A	86.1	73.5	46.9
		AA	120.0	107.8	67.6
3000 PSI CONCRETE	3-1/2" MIN.	A	65.0	55.5	35.4
		AA	89.9	79.9	50.2
		B	53.5	47.1	34.6
		BB	69.0	59.8	44.1
4000 PSI CONCRETE		A	77.2	65.9	42.0
		AA	106.3	96.3	59.4
3/8" THK. A36 STEEL	1" MIN.	C	120.0	101.8	62.1
		CC	120.0	120.0	112.7

SEE SHEET 4 FOR ANCHOR DESCRIPTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
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Expiration Date 06/25/2025
By H. G. P. Miller
Miami Date Product Control

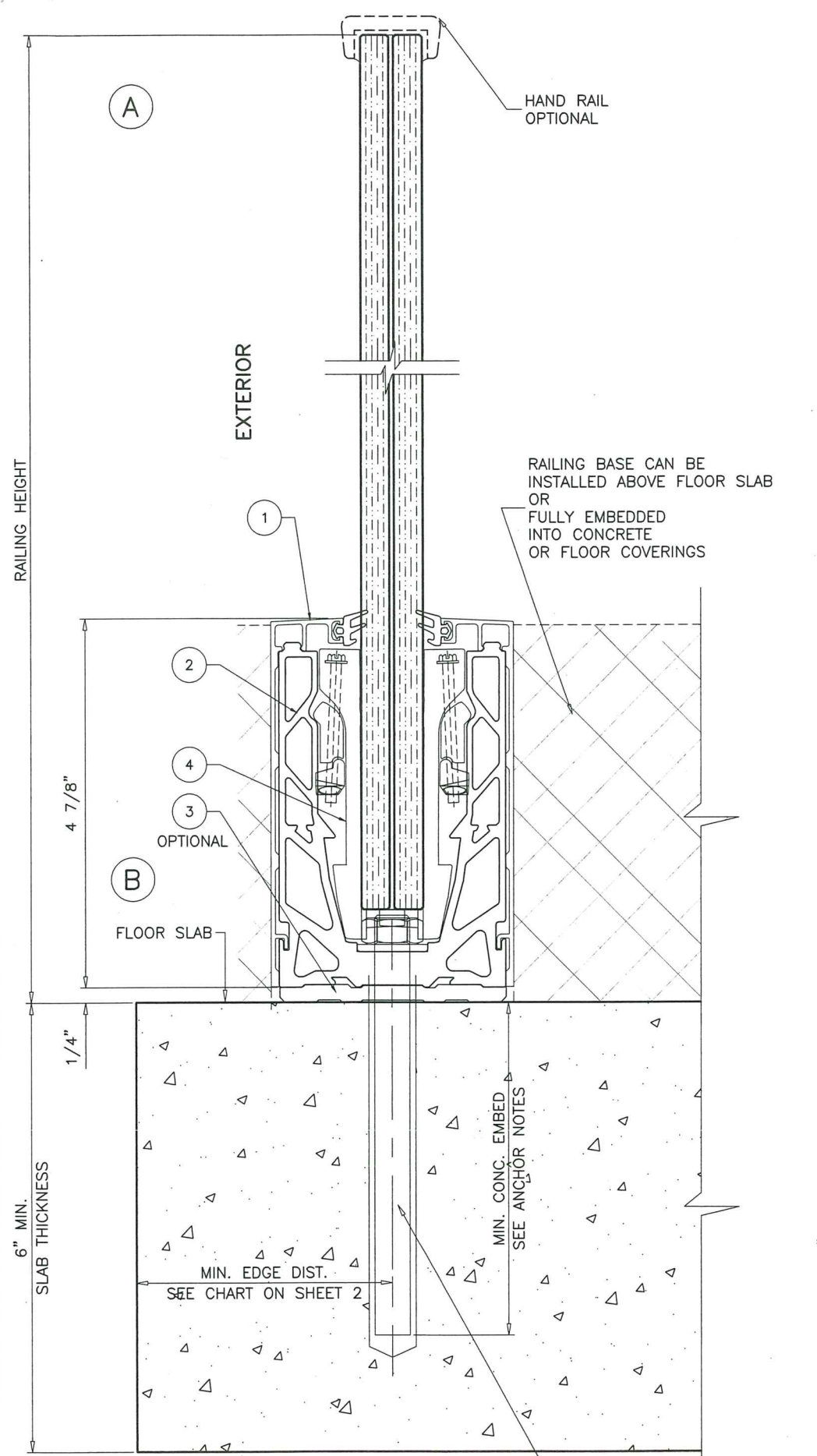
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
RAILING 20-06D-ALU

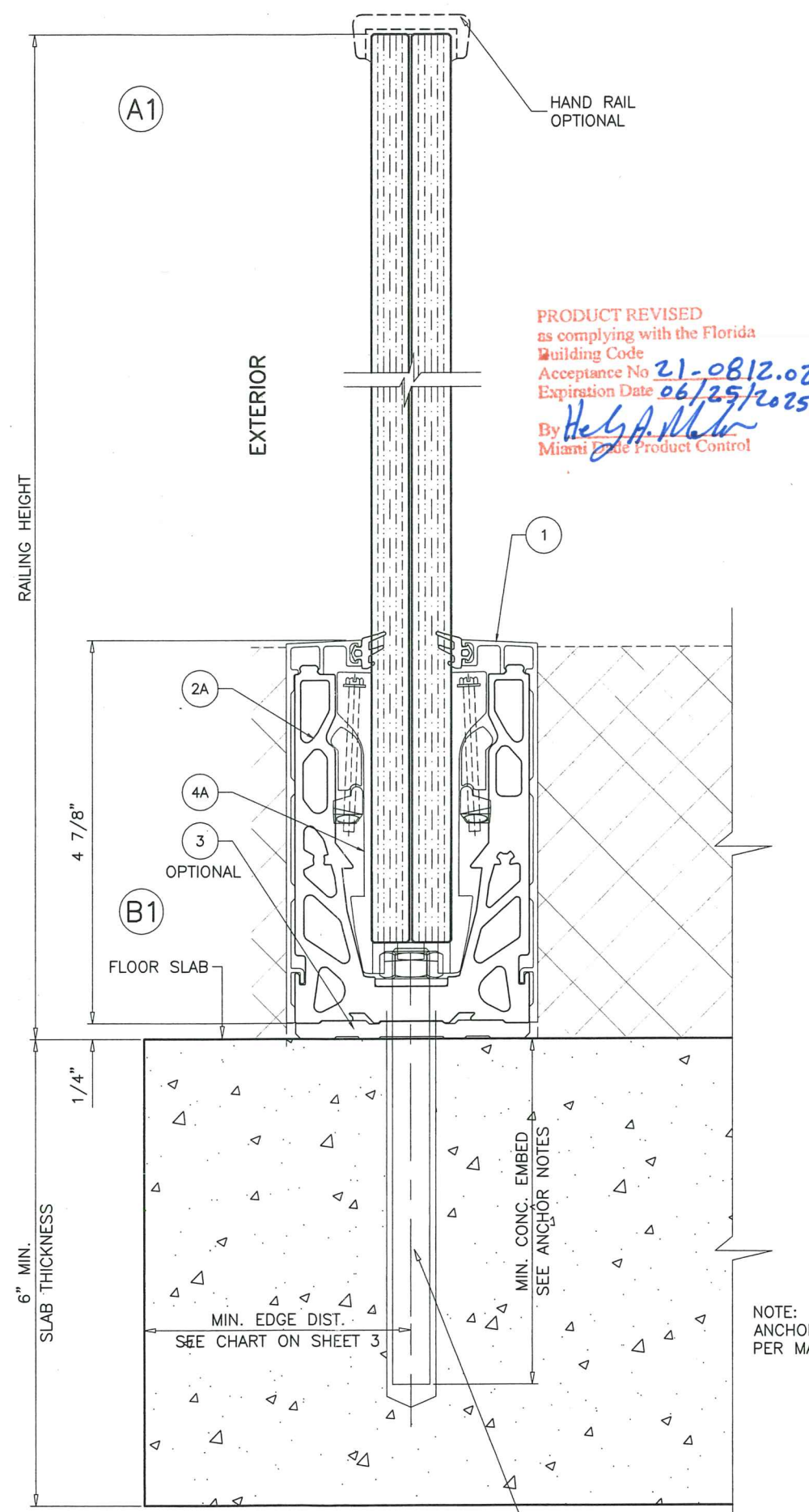
GARDA SP-AP 200/SP-AP 300 POSTLESS GLASS RAILING
Aluetro
Via Lombardia 4/6
25034 Orzinuovi (BS) - ITALIA
Phone: +39 030 9444433 Fax: +39 030 9946653

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drawing no.	20-06D		
sheet	3 of 6		



GARDA SP-AP 200

TYPICAL ANCHORS
SEE SHEET 2
FOR SPACING AND CAPACITY



GARDA SP-AP 300

TYPICAL ANCHORS
SEE SHEET 3
FOR SPACING AND CAPACITY

PRODUCT REVISED
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By Hely A. M...
Miami Trade Product Control

TYPICAL ANCHORS:

ANCHOR 'A'

INTO CONCRETE (3000 OR 4000 PSI MIN.)
HVU ANCHORING SYSTEM BY 'HILTI'
WITH HVU ADHESIVE CAPSULE AND
3/8" DIA. 'HILTI' THREADED ROD
(HAS-R STAINLESS AISI 304/316 SS)
(Fu = 100,000 PSI & Fy = 65,000 PSI)
SAE J995 GRADE 5 NUT
AND ANSI B18.22.1 TYPE A PLAIN WASHER
4-1/4" MIN. EMBEDMENT
MIN. EDGE DISTANCE SEE CHART ON SHEETS 2 & 3

ANCHOR 'AA'

INTO CONCRETE (3000 OR 4000 PSI MIN.)
HVU ANCHORING SYSTEM BY 'HILTI'
WITH HVU ADHESIVE CAPSULE AND
1/2" DIA. 'HILTI' THREADED ROD
(HAS-R STAINLESS AISI 304/316 SS)
(Fu = 100,000 PSI & Fy = 65,000 PSI)
SAE J995 GRADE 5 NUT
AND ANSI B18.22.1 TYPE A PLAIN WASHER
4-1/4" MIN. EMBEDMENT
MIN. EDGE DISTANCE SEE CHART ON SHEETS 2 & 3

ANCHOR 'B'

INTO CONCRETE (3000 PSI MIN.)
3/8" DIA. SCREW-BOLT+ BY 'DEWALT'
(Fu = 120,000 PSI & Fy = 92,000 PSI)
4-1/2" MIN. EMBEDMENT
MIN. EDGE DISTANCE SEE CHART ON SHEETS 2 & 3

ANCHOR 'BB'

INTO CONCRETE (3000 PSI MIN.)
1/2" DIA. SCREW-BOLT+ BY 'DEWALT'
(Fu = 120,000 PSI & Fy = 92,000 PSI)
4-1/4" MIN. EMBEDMENT
MIN. EDGE DISTANCE SEE CHART ON SHEETS 2 & 3

ANCHOR 'C'

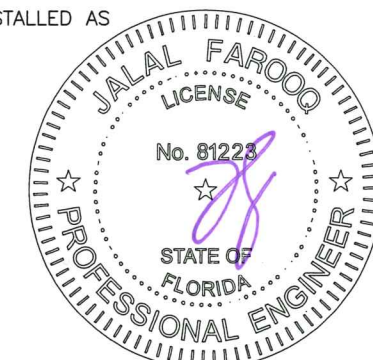
INTO A36 STEEL STRUCTURES (3/8" MIN. THK.)
3/8" DIA. MACHINE SCREWS (GRADE 5 CRS)
(Fu = 120,000 PSI & Fy = 92,000 PSI)
(3) THREADS TO EXTEND BEYOND METAL THICKNESS
MIN. EDGE DISTANCE SEE CHARTS ON SHEETS 2 & 3

ANCHOR 'CC'

INTO A36 STEEL STRUCTURES (3/8" MIN. THK.)
1/2" DIA. MACHINE SCREWS (GRADE 5 CRS)
(Fu = 120,000 PSI & Fy = 92,000 PSI)
(3) THREADS TO EXTEND BEYOND METAL THICKNESS
MIN. EDGE DISTANCE SEE CHART ON SHEETS 2 & 3

NOTE:
ANCHOR TORQUED AND OTHERWISE INSTALLED AS
PER MANUFACTURER SPECIFICATIONS.

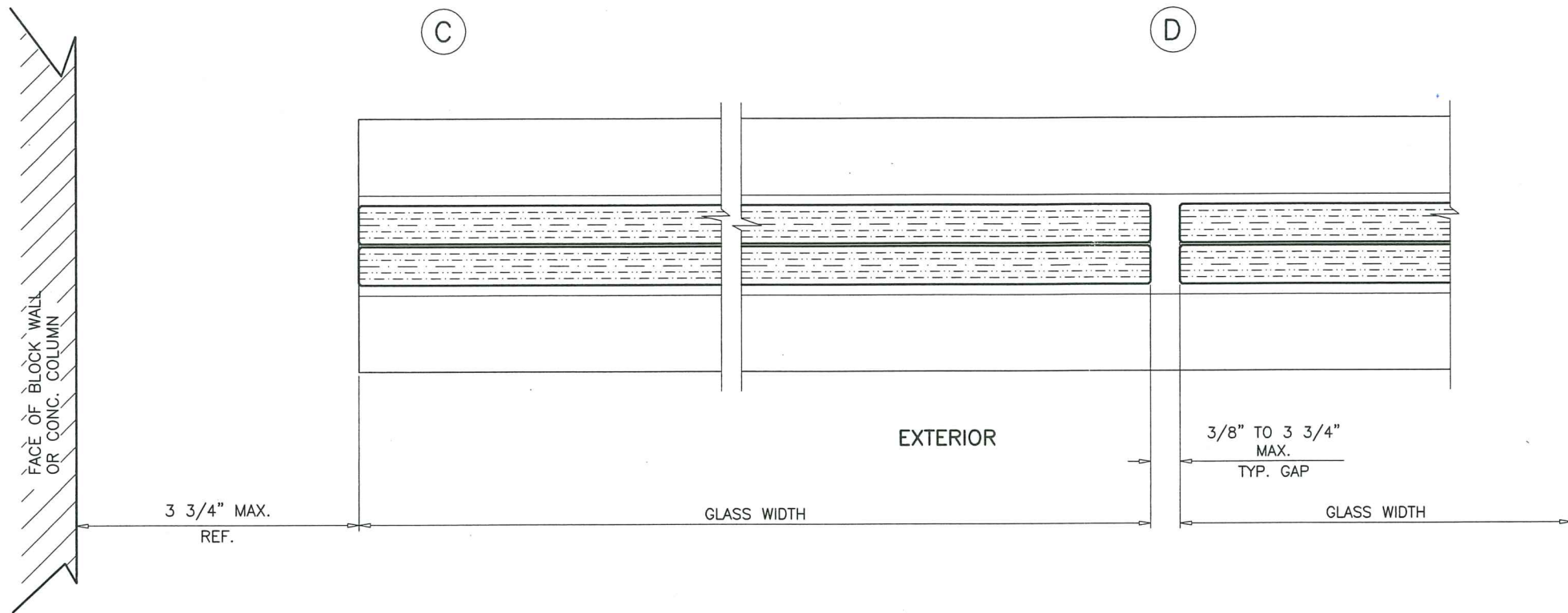
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TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

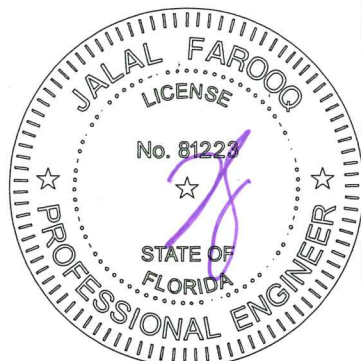
GARDA SP-AP 200/SP-AP 300 POSTLESS GLASS RAILING
Aluvetro
Via Lombardia 4/6
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revisions:	no	date	by	description
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chk. by:				
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sheet	4 of 6			

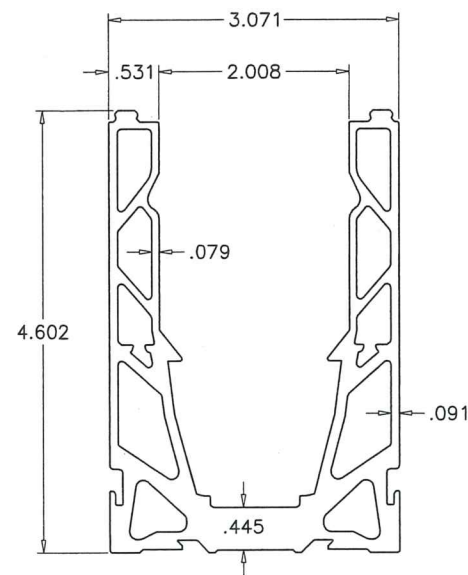


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By: *H. G. A. Miller*
Miami Dade Product Control

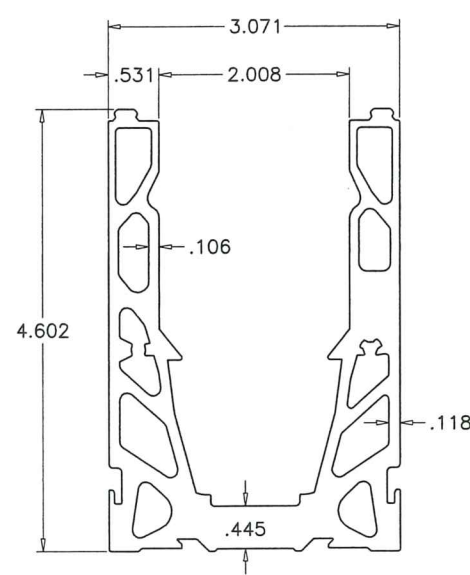
AUG 09 2021



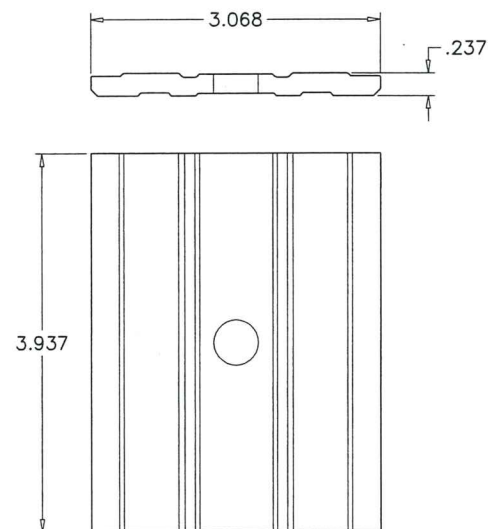
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.N. 3538)		RAILING \ 20-06D-ALU																				
GARDA SP-AP 200/SP-AP 300 POSTLESS GLASS RAILING Aluvetro Via Lombardia 4/6 25034 Orzinuovi (BS) - ITALIA Phone: +39 030 9444433 Fax: +39 030 9946653		revisions: <table border="1"> <tr> <th>no</th> <th>date</th> <th>by</th> <th>description</th> </tr> <tr> <td>A</td> <td>07.12.21</td> <td></td> <td>GENERAL REVISION</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>	no	date	by	description	A	07.12.21		GENERAL REVISION												
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A	07.12.21		GENERAL REVISION																			
date: 01-27-20 scale: 1/2" = 1" dr. by: TARIQ chk. by:	drawing no. 20-06D sheet 5 of 6																					



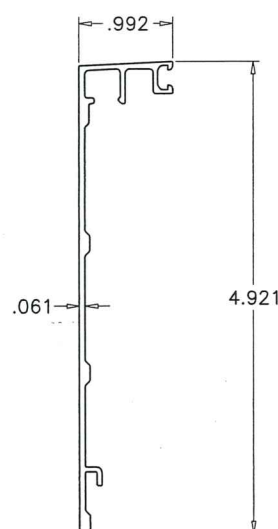
2 RAILING BASE (SP-AP 200)



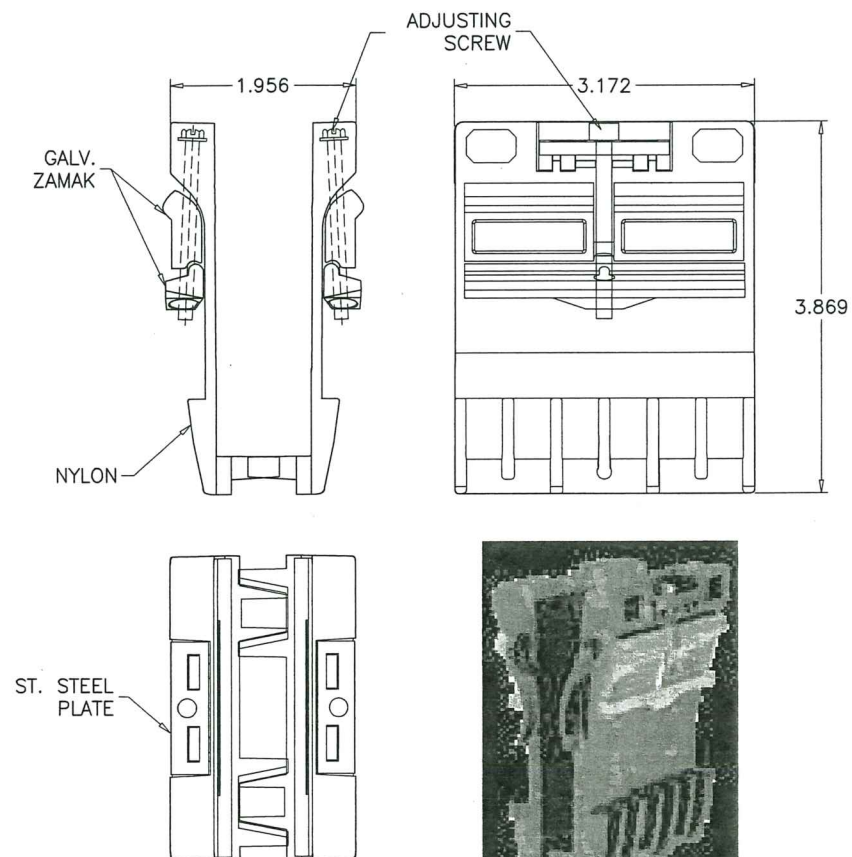
2A RAILING BASE (SP-AP 300)



3 RAILING SHIM



1 BASE COVER



4 GLASS CLAMP (SP-AP 200)

4A GLASS CLAMP (SP-AP 300)



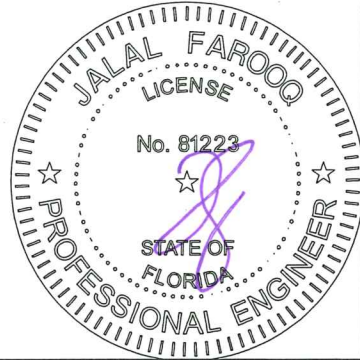
ITEM	PART #	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	KL	BASE COVER	6060-T6	-
2	PL1 200	RAILING BASE (GARDA SP-AP 200)	6063-T6	-
2A	PL1 300	RAILING BASE (GARDA SP-AP 300)	6063-T6	-
3	GP	RAILING SHIM (OPTIONAL)	6063-T6	-
4	PZ10	GLASS CLAMP (GARDA SP-AP 200) @ 6" FROM ENDS & 12" O.C.	NYLON	-
4A	PZ12	GLASS CLAMP (GARDA SP-AP 300) @ 4" FROM ENDS & 8" O.C.	NYLON	-
5	GU	INTERIOR/EXTERIOR GASKET	PVC	DUROMETER 80±5 SHORE A

PVC GASKETS PROPERTIES

BASE POLYMER = PVC
 DENSITY = 1.5g/cm3
 HARDNESS = SHORE D 90 HD
 IMPACT STRENGTH = 10 KJ/M2
 SOFTENING TEMPERATURE = 85° C
 FIREPROOF PERFORMANCE = B1
 TENSILE STRENGTH = 60 MPa

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 21-0812.02
 Expiration Date 06/25/2025
 By *H. A. Miller*
 Miami Data Product Control

AUG 09 2021



AL-FAROOQ CORPORATION
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GARDA SP-AP 200/SP-AP 300 POSTLESS GLASS RAILING
Aluvetro
 Via Lombardia 4/6
 25034 Orzinuovi (BS) - ITALIA
 Phone: +39 030 9444433 Fax: +39 030 9946653

revisions:		date:		scale:		dr. by:		chk. by:	
no	date	no	date	no	date	no	date	no	date
A	07.12.21	1	01-27-20	1/2" = 1"		TARIO			

drawing no. 20-06D

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