



# NATIONAL CERTIFIED TESTING LABORATORIES

FIVE LEIGH DRIVE • YORK, PENNSYLVANIA 17406 • TELEPHONE (717) 846-1200  
FAX (717) 767-4100  
www.nctlinc.com

AAMA/WDMA/CSA 101/I.S.2/A440-05  
AAMA/WDMA/CSA 101/I.S.2/A440-08

## STRUCTURAL PERFORMANCE TEST REPORT SUMMARY

### RENDERED TO:

ALL SEASONS DOOR & WINDOW, INC.  
28 EDGE ROAD  
EAST BRUNSWICK, NJ 08816

MODEL/TYPE: "A-200" Tilt Double Hung

TITLE	SUMMARY OF RESULTS
Primary Product Designator	H-C60 1422 x 2311 mm (56x91) Class LC-PG60: Size Tested 1422 x 2311 mm (56 x 91 in)-Type H
Air Infiltration/Exfiltration	Infiltration Rate: 1.0 L/s/m <sup>2</sup> (0.2 cfm/ft <sup>2</sup> ) (0.19 cfm/ft <sup>2</sup> ) Measured
Water Penetration Resistance	440 pa (9.0 psf)
Design Pressure	± 2880 pa (60.0 psf)
Uniform Load Structural Test	± 4320 pa (90.0 psf)
Forced Entry Resistance	Passed ASTM F588-07 Grade 10

**Test Completion Date: 01/20/11**

Reference must be made to NCTL Report Number NCTL-110-13604-2 dated 01/31/11 for complete test sample description and data.

NATIONAL CERTIFIED TESTING LABORATORIES

JAY LEADER  
Technician



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AAMA/WDMA/CSA 101/I.S.2/A440-08

## **STRUCTURAL PERFORMANCE TEST REPORT**

### **NCTL-110-13604-2**

REPORT TO: ALL SEASONS DOOR & WINDOW, INC.  
28 EDGEBORO ROAD  
EAST BRUNSWICK, NJ 08816

ORIGINAL REPORT NUMBER: NCTL-110-13604-2

ORIGINAL REPORT DATE: 01/31/2011

MODEL/TYPE: "A-200" Tilt Double Hung



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REPORT NCTL-110-13604-2 TO: All Seasons Door & Window, Inc.  
28 Edgeboro Road  
East Brunswick, NJ 08816

STARTING TEST DATE: 01/19/2011  
ENDING TEST DATE: 01/20/2011

SPECIFICATION: AAMA/WDMA/CSA 101/I.S.2/A440-05, "Standard/Specification for Windows, Doors and Unit Skylights."  
AAMA/WDMA/CSA 101/I.S.2/A440-08, "NAFS-North American Fenestration Standard/Specification for Windows, Doors and Skylights."

PERFORMANCE CLASS: H-C60 1422 x 2311 mm (56x91)  
CLASS LC-PG60: Size tested 1422 x 2311 mm (56 x 91 in)-Type H

## DESCRIPTION OF SAMPLE TESTED

---

MODEL/TYPE: "A-200"

CONFIGURATION: Tilt Double Hung

FRAME SIZE: 1422 mm (56") wide by 2311 mm (91") high overall

SASH SIZE: Top sash 1327.15 mm (52-1/4") wide by 1136.65 mm (44-3/4") high  
SASH SIZE: Bottom sash 1346.2 mm (53") wide by 1136.65 mm (44-3/4") high

FRAME TYPE: Thermally broken extruded aluminum (poured urethane)

JOINT CONSTRUCTION: Frame and sash double screw butt-type corner construction with closed cell foam gaskets

GLAZING COMPONENTS:

OVERALL: 22.23 mm (0.875") nominal

GLASS THICKNESS: (2) panes of 4 mm (0.156") nominal tempered

SPACER TYPE/SIZE: 15.88 mm (0.625") desiccant-filled aluminum spacer system (A1-D)

GLAZING SYSTEM: Channel glazed with a flexible vinyl glazing bead

**WEATHERSTRIP:**

TYPE: (2) strips of center fin  
 SIZE: 5.59 mm (0.220") high  
 LOCATION: Stiles and interior meeting rail

TYPE: (1) strip of center fin  
 SIZE: 5.59 mm (0.220") high  
 LOCATION: Head, sill, top rail and exterior meeting rail

TYPE: (1) strip of (2) leaf vinyl  
 LOCATION: Bottom rail

**OPERATING HARDWARE:****OPERATING HARDWARE:****LOCKS**

TYPE: Metal sweep lock  
 LOCATION: 127 mm (4.5") from each end of the interior meeting rail

TYPE: Extruded aluminum spring-loaded snap-lock  
 LOCATION: Head midspan

**KEEPER**

TYPE: Extruded aluminum  
 LOCATION: Exterior meeting rail

TYPE: Extruded aluminum  
 LOCATION: Top rail

**REINFORCEMENT:**

None

**ANCILLARY:**

TYPE: Spiral balance  
 LOCATION: (1) per jamb track

TYPE: Metal lockable tilt latch with thumb actuator  
 LOCATION: Each end of the top rail and interior meeting rail

TYPE: Solid metal pivot bar fastened with (1) screw  
 LOCATION: Each end of the exterior meeting rail and bottom rail

TYPE: Rigid parting vinyl  
 LOCATION: Each jamb

TYPE: Extruded aluminum sash stop (snap-fitted)  
 LOCATION: Top of each interior jamb track

TYPE: Rigid vinyl sash stop (snap-fitted)  
 LOCATION: Bottom of each exterior jamb track

TYPE: Metal bottom rail support fastened with (2) screws  
 LOCATION: 393.7 mm (15.5") from each end of the sill

**WEEPS:**

No apparent weeps employed.

**INTERIOR & EXTERIOR  
SURFACE FINISH:**

Tan painted aluminum

SEALANT:	Frame and sash corners sealed with silicone sealant
INSECT SCREEN/ SIZE:	1371.6 mm (54") 1136.65 mm (44.75")
CORNER CONSTRUCTION:	The screen was of mitered corner construction with staked in-place plastic corner keys
MATERIAL:	Fiberglass mesh with a solid vinyl spline and (2) jamb retainer springs
INSTALLATION METHOD:	The window was installed in a 50.8 mm x 254 mm (2" x 10") wood buck and was secured to the buck with 38.1 mm x 19.05 mm (1.5" x 0.75") wood blind stops located at the interior and exterior perimeters. Each blind stop was secured with one (1) # 8 x 41.3 mm (1.625") flat head screw approximately 203.2 mm (8") on center. The window was also secured to the buck with one (1) # 8 x 50.8 mm (2") flat head screw located at 82.55 mm (3.25") from the bottom of each jamb and 127 mm (5") from the top of each jamb and one (1) screw at each jamb track midspan of each jamb. The exterior perimeter was sealed with a silicone sealant

### TEST RESULTS

#### 5.3.1.1. OPERATING FORCE

ASTM E 2068

	<u>Measured</u>	<u>Allowed</u>
Top Sash		
Initiate Open	116 N (26 lbf)	-----
Maintain Open	124 N (28 lbf)	200 N (45 lbf) <sub>(05)</sub> , 180 N (40lbf) <sub>(08)</sub>
Initiate Close	191 N (43 lbf)	-----
Maintain Close	180 N (40 lbf)	200 N (45 lbf) <sub>(05)</sub> , 180 N (40lbf) <sub>(08)</sub>
Bottom Sash		
Initiate Open	160 N (36 lbf)	-----
Maintain Open	156 N (35 lbf)	200 N (45 lbf) <sub>(05)</sub> , 180 N (40lbf) <sub>(08)</sub>
Initiate Close	89 N (20 lbf)	-----
Maintain Close	80 N (18 lbf)	200 N (45 lbf) <sub>(05)</sub> , 180 N (40lbf) <sub>(08)</sub>

#### 5.3.1.1.3 LATCHING DEVICE

<u>Measured</u>	<u>Allowed</u>
31 N (7lbf)	100 N (22.5 lbf)

#### 5.3.2 AIR LEAKAGE RESISTANCE AT 75 PA (1.6 PSF)

ASTM E283-04

	<u>Measured</u>	<u>Allowed</u>
Infiltration	1.0 L/s/m <sup>2</sup> (0.2 CFM/ft <sup>2</sup> ) (0.19 CFM/ft <sup>2</sup> ) measured	1.5 L/s/m <sup>2</sup> (0.3 CFM/ft <sup>2</sup> )

*The Tested Specimen Meets Or Exceeds the Performance Levels Specified in AAMA/WDMA/CSA 101/I.S.2/A440-05/08*

#### 4.4.2.6/4.3.2 WATER RESISTANCE TEST

ASTM E 547-00

No Leakage after 4 cycles of 5 minutes @ 440 pa (9.0 psf)

\* Tested with and without insect screen

**4.4.2.6/ 4.3.2 UNIFORM LOAD DEFLECTION AT DESIGN PRESSURE**

ASTM E330-02

**Measured**

No Damage After Positive	2880 pa (60.0 psf)	
No Damage After Negative	2880 pa (60.0 psf)	
Meeting Rail		
Measured Deflection Positive	19.38 mm	(0.763 inches)
Measured Deflection Negative	19.89 mm	(0.783 inches)

**4.4.2.6/ 4.3.2 UNIFORM LOAD STRUCTURAL TEST**

ASTM E330-02

**Measured**

No Damage After Positive	4320 pa (90.0 psf)	
No Damage After Negative	4320 pa (90.0 psf)	
Measured Permanent Set Positive	0.84 mm	0.033 inches
Measured Permanent Set Negative	0.79 mm	0.031 inches
Permanent Set Allowed	3.94 mm	0.155 inches <sup>(-05)</sup>

Maximum Allowed 0.3% for C rating 3.94 mm (0.155 inches) <sup>(05)</sup>Maximum Allowed 0.4% for LC rating 5.26 mm (0.207 inches) <sup>(08)</sup>*\*\* No glass breakage or permanent damage causing the unit to be inoperable***5.3.5 FORCED ENTRY RESISTANCE**

Passed ASTM F588-07 Grade 10

See Appendix for results.

**5.3.6.3 DEGLAZING.**

ASTM E987

Top Sash

**Measured**

Top Rail	320 N (70 lbf)	13.4 %	1.70 mm	(0.067 inches)
Meeting Rail	320 N (70 lbf)	14.4 %	1.83 mm	(0.072 inches)
Left Stile	230 N (50 lbf)	7.8 %	0.99 mm	(0.039 inches)
Right Stile	230 N (50 lbf)	8.2 %	1.04 mm	(0.041 inches)

Bottom Sash

**Measured**

Meeting Rail	320 N (70 lbf)	13.0 %	1.65 mm	(0.065 inches)
Bottom Rail	320 N (70 lbf)	14.0 %	1.78 mm	(0.070 inches)
Left Stile	230 N (50 lbf)	7.4 %	0.94 mm	(0.037 inches)
Right Stile	230 N (50 lbf)	8.2 %	1.04 mm	(0.041 inches)

TEST COMPLETED 01/20/11

The tested specimen meets (or exceeds) the performance level specified in AAMA/WDMA/CSA 101/I.S.2/A440-05 and AAMA/WDMA/CSA 101/I.S.2/A440-08 for air leakage resistance. The listed results were secured by using the designated test methods and indicate compliance with the performance requirements of the referenced specification paragraphs for the H-C60 1422 x 2311 (56x 91) and Class LC-PG60: Size tested 1422 x 2311 mm (56 x 91 in)-Type H product designations.

A copy of this report along with representative sections of the test specimen will be retained by NCTL for a period of four (4) years. The results obtained apply only to the specimen tested. No conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen may be drawn from this test. This report does not constitute certification of the product which may only be granted by a certification program validator. This test report was prepared by National Certified Testing Laboratory (NCTL), for the exclusive use of the above named client and it does not constitute certification of this product. The results are for the particular specimen tested and do not imply the quality of similar or identical products manufactured or installed from specifications identical to the tested product. The test specimen was supplied to NCTL by the above named client. No conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen are to be drawn from the ASTM E 330 test. Foam tape is mounted to the perimeter of the test buck prior to clamping to the test wall. NCTL is a testing lab and assumes that all information provided by the client is accurate and does not guarantee or warranty any product tested or installed.

Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. Component drawings were reviewed for product verification. The bill of materials contains details with any deviations noted. Ambient conditions during the referenced testing are available upon request. A copy of this report along with representative sections of the test specimen will be retained by NCTL. This report does not constitute certification or approval of the product, which may only be granted by a certification program validator or recognized approval entity. All tests were conducted in full compliance with the referenced specifications and/or test methods. This report may not be reproduced, except in full, without the written consent of NCTL.

## NATIONAL CERTIFIED TESTING LABORATORIES

A handwritten signature in black ink that reads "Jay Leader". The signature is written over a circular logo containing the letters "NCTL" in a stylized font.

DIGITAL SIGNATURE

JAY LEADER  
TechnicianA handwritten signature in black ink that reads "R. H. Zeiders". The signature is written over a circular logo containing the letters "NCTL" in a stylized font.DIGITAL  
SIGNATUREROBERT H. ZEIDERS  
Vice-President Engineering & Quality

JL/hs

## Attachments

- Appendix A - Forced Entry Resistance Results
- Appendix B - Drawing & Revision Summary
- Appendix C - Drawings

**APPENDIX A**  
Forced Entry Resistance Test Results

**Test Method:** ASTM F 588-07, "Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact". Grade 10

**TEST RESULTS**

<u>Paragraph No.</u>	<u>Loads</u>	<u>Duration</u>	<u>Measured</u>	<u>Allowed</u>
A2.1 –Disassembly Test	N/A	5 Minutes	No Entry	No Entry
A2.2-Lock Manipulation	N/A	5 Minutes	No Entry	No Entry
A2.3 –Sash Manipulation	N/A	5 Minutes	No Entry	No Entry
A2.5.2-Test A1	L1= 667 N (150 lbf)	1 Minute	No Entry	No Entry
A2.5.3-Test A2	L1= 667 N (150 lbf) L2= 333 N (75 lbf) interior	1 Minute	No Entry	No Entry
A2.5.4-Test A3	L1= 667 N (150 lbf) L2= 333 N (75 lbf) exterior	1 Minute	No Entry	No Entry
A2.5.5-Test A4	L1= 667 N (150 lbf) L2= 333 N (75 lbf) interior	1 Minute	No Entry	No Entry
A2.5.6-Test A5	L1= 667 N (150 lbf) L2= 333 N (75 lbf) exterior	1 Minute	No Entry	No Entry
A2.5.8-Test A7	L1= 667 N (150 lbf) L2= 333 N (75 lbf) interior L3= 111 N (25 lbf) interior	1 Minute	No Entry	No Entry
A2.2 - Lock Manipulation	N/A	5 Minutes	No Entry	No Entry
A2.3 –Sash Manipulation	N/A	5 Minutes	No Entry	No Entry



## APPENDIX B

### Section 1:

Component Drawings, with Applicable Part Numbers, Manufacturing and Modeling Details, were reviewed (as submitted) for Product Verification  
(Reference: NCTL-110-13604-2)

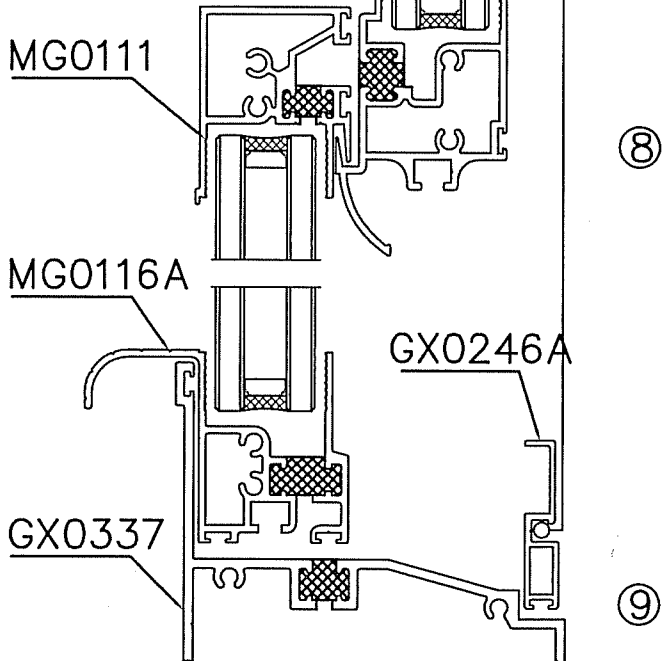
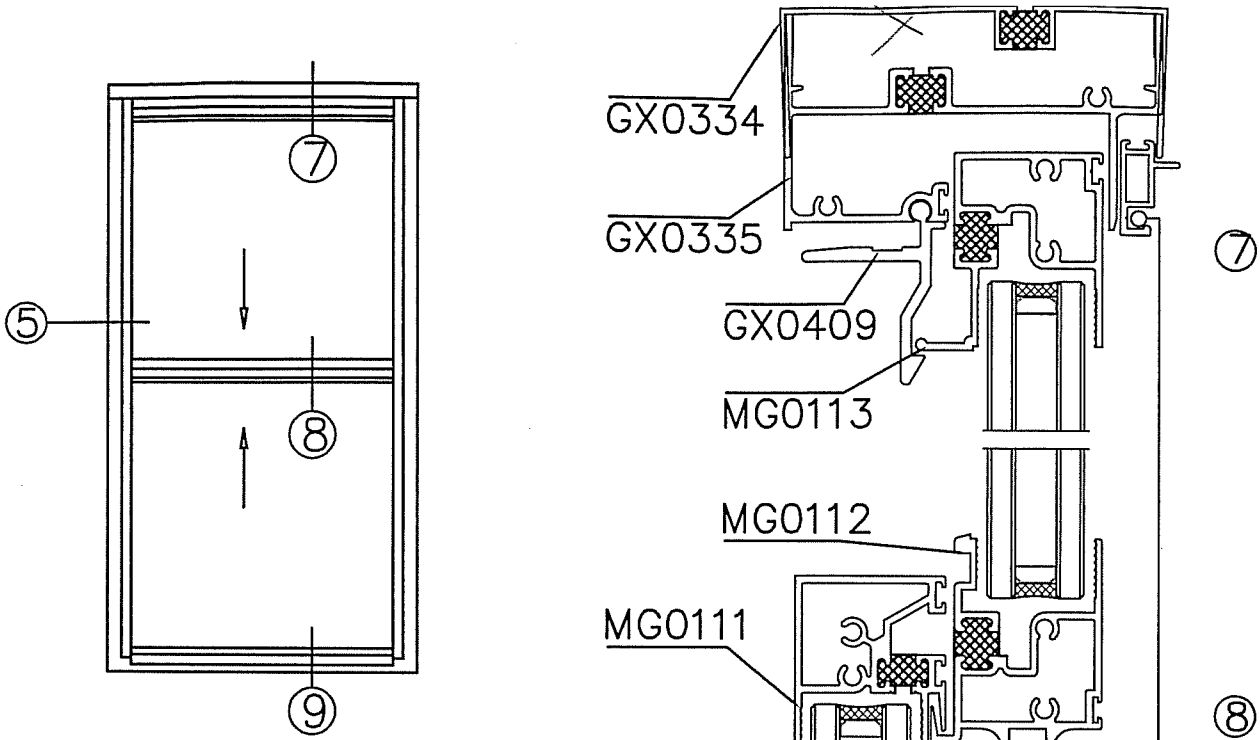
See Attached Documentation;  
any deviations noted.

Note: The above referenced component drawings along with representative sections of the test specimen will be retained per procedure by NCTL. This testing facility assumes that all information provided by the client is accurate.

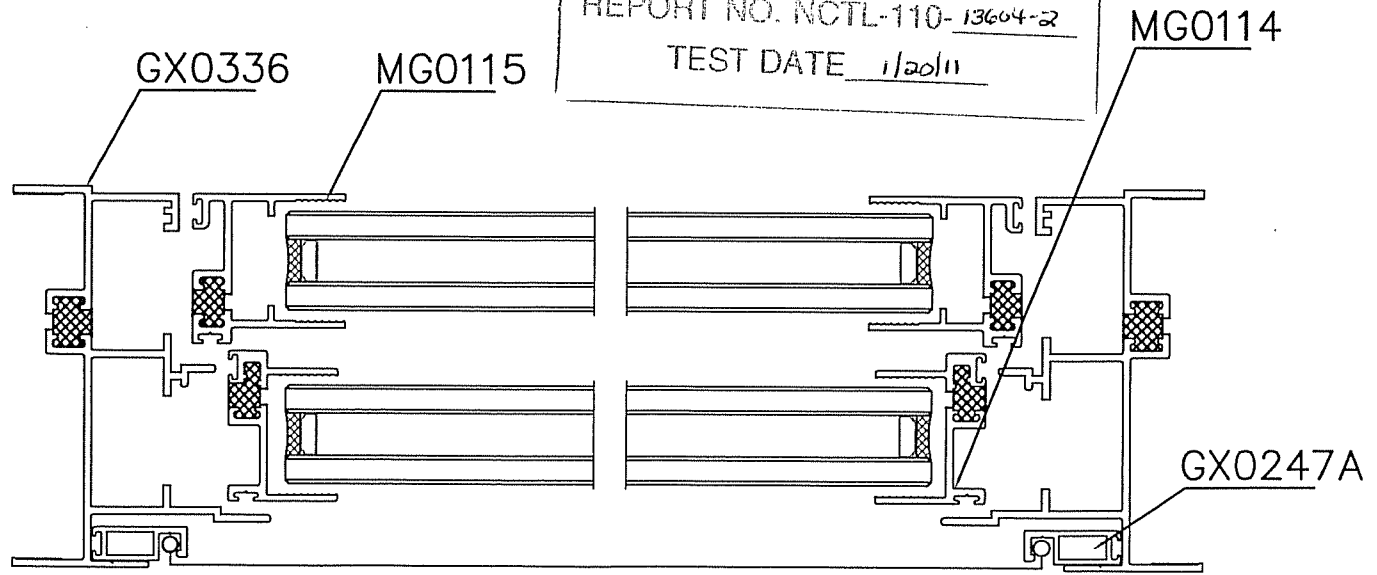
### Section 2:

<u>Identification</u>	<u>Date</u>	<u>Page &amp; Revision</u>
Original Issue	01/31/11	Not Applicable

**APPENDIX C**  
**DRAWINGS**



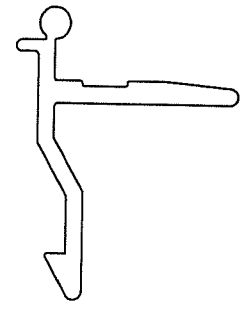
TEST SPECIMEN COMPLIES  
 WITH THESE DETAILS.  
 ANY DEVIATION IS NOTED  
 REPORT NO. NCTL-110-13604+2  
 TEST DATE 1/20/11



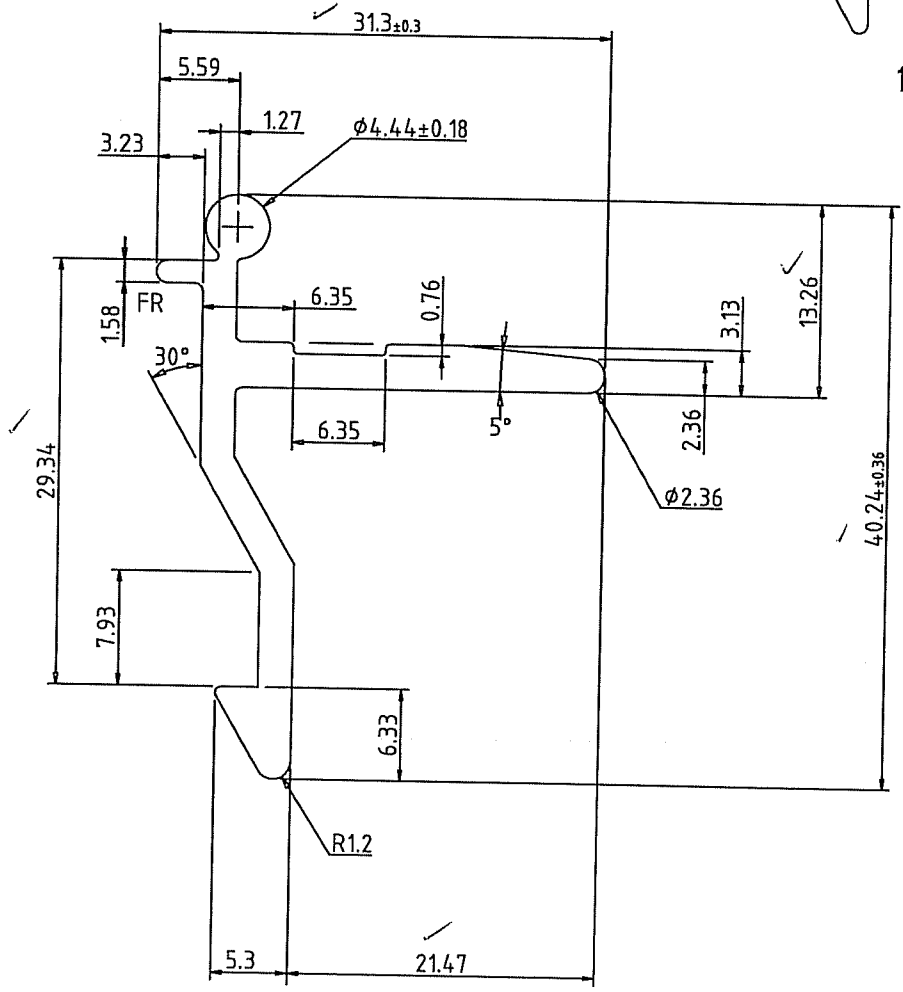
5

CUSTOMER	all seasons	DWG.NO.	GX0409	SEC.NO.	GX0409
ΔΙ>§1¼°A	EALATCH	0-Ε1¼1¼°A		»ú 1"	920

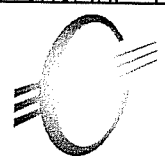
TEST SPECIMEN COMPLIES WITH THESE DETAILS.  
 ANY DEVIATION IS NOTED  
 REPORT NO. NCTL-110-13604-2  
 TEST DATE 1/20/11



1:1

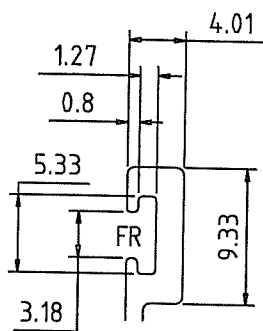


EST. AREA	1.87	UNSP.TK	2.36±0.18	STD.	GB/T5237-2000	»e1¼	JIAGN	ΕΟÆU	03-04-2004
EST. WEIGHT	0.51	UNSP.R.	R0.3	ALLOY	6063-T5	Εδ°E		ΕΟÆU	
PERIMETER	148.4					»δÇ©		ΕΟÆU	
SCALE	2:1					AG×¼		ΕΟÆU	
1δ1¼Ø0²	42								

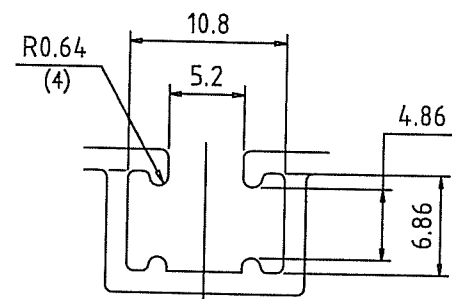


ΕΔ  
 1½δ ΕΘ ΑΑ δμ δΔ Ιρ  
 1» Ε³/

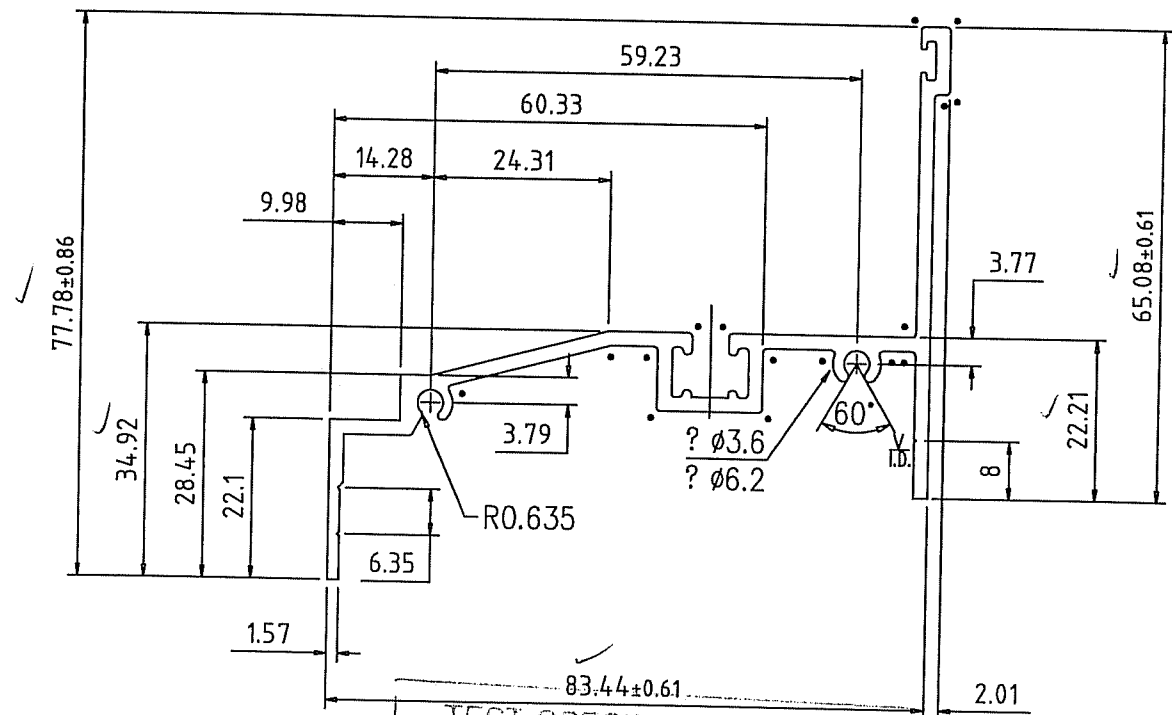
CUSTOMER	ALL SEASONS	DWG. NO.	GX0337	DI - A	SEC. NO.	GX0337
0-1/4" A		0-1/4" A	8435	»U 1"		1880



SCALE 2:1



SCALE 2:1

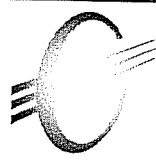


TEST SPECIMEN COMPLIES WITH THESE DETAILS.  
 ANY DEVIATION IS NOTED  
 REPORT NO. NCTL-110-13604-2  
 TEST DATE 1/20/11

paint wt=1.26kg/m  
 ??? 0.78 cm<sup>2</sup>

• =r0.5

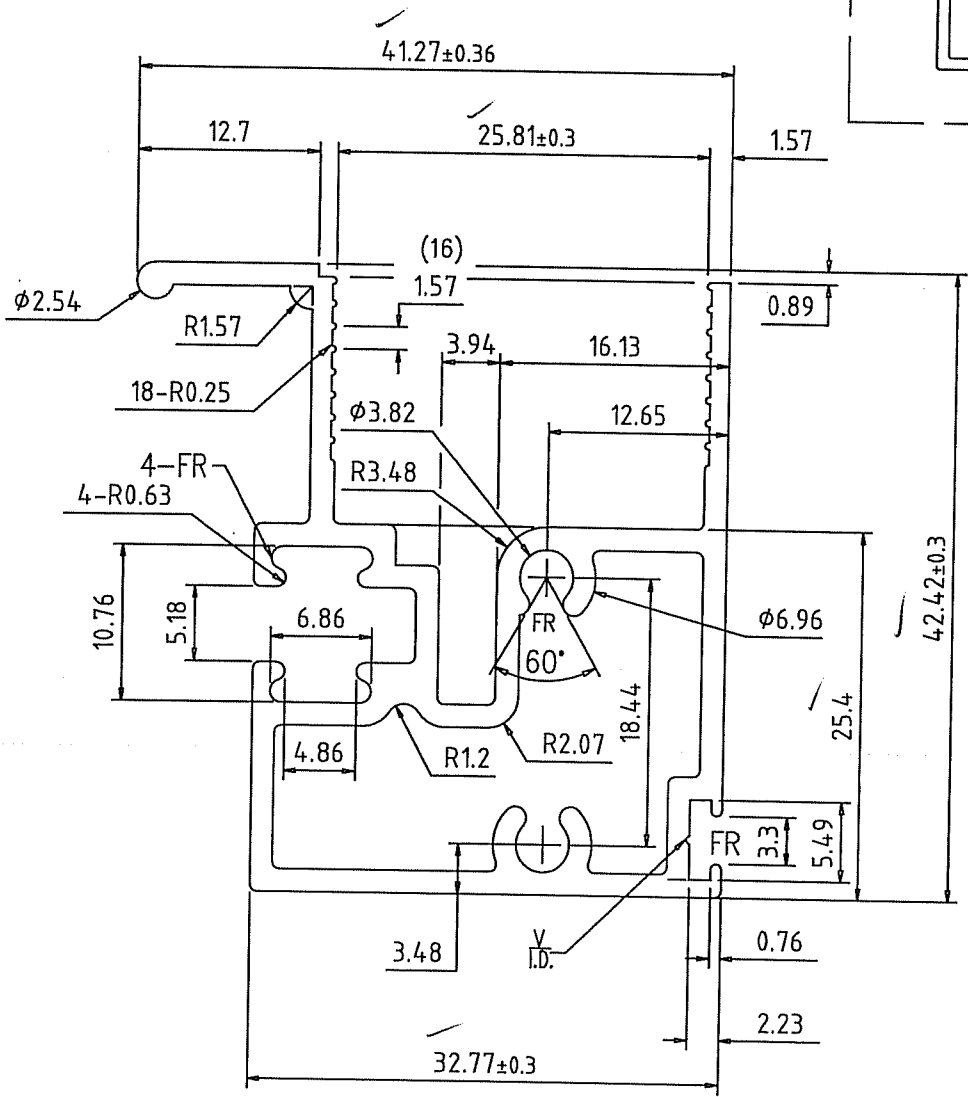
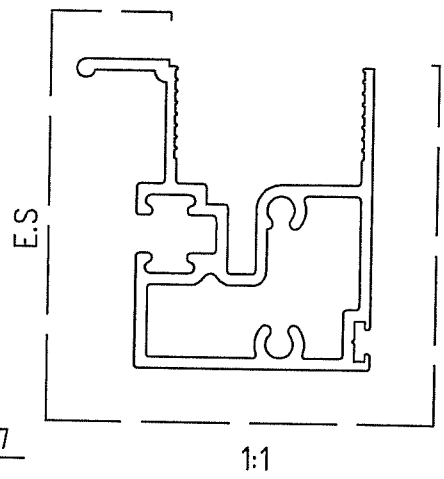
EST. AREA	4.42	UNSP. TK	2.0±0.14	STD.	GB/T5237-2000	JIAGN	EOE	2003-10-25
EST. WEIGHT	1.2	UNSP. R.	R0.5	ALLOY	6063-T5	EOE	EOE	
PERIMETER	434.2					EOE	EOE	
SCALE	1:1					EOE	EOE	
	115.5					EOE	EOE	



EOE  
 1/2 Ø EÖ AA òμ OD Ip  
 1" P 3/

CUSTOMER	ALL SEASONS	DWG. NO.	MG0113	DI - A	MG0113
Ø11/4° A		ØE1/4° A		»Ü 1"	920

TEST SPECIMEN COMPLIES WITH THESE DETAILS.  
 ANY DEVIATION IS NOTED  
 REPORT NO. NCTL-110-13406-2  
 TEST DATE 1/20/11

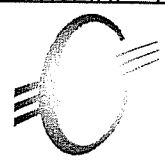


paint wt=0.95 kg/m

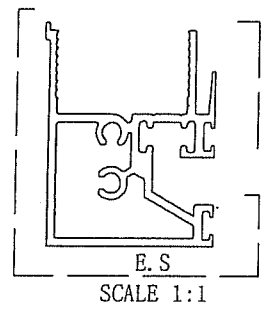
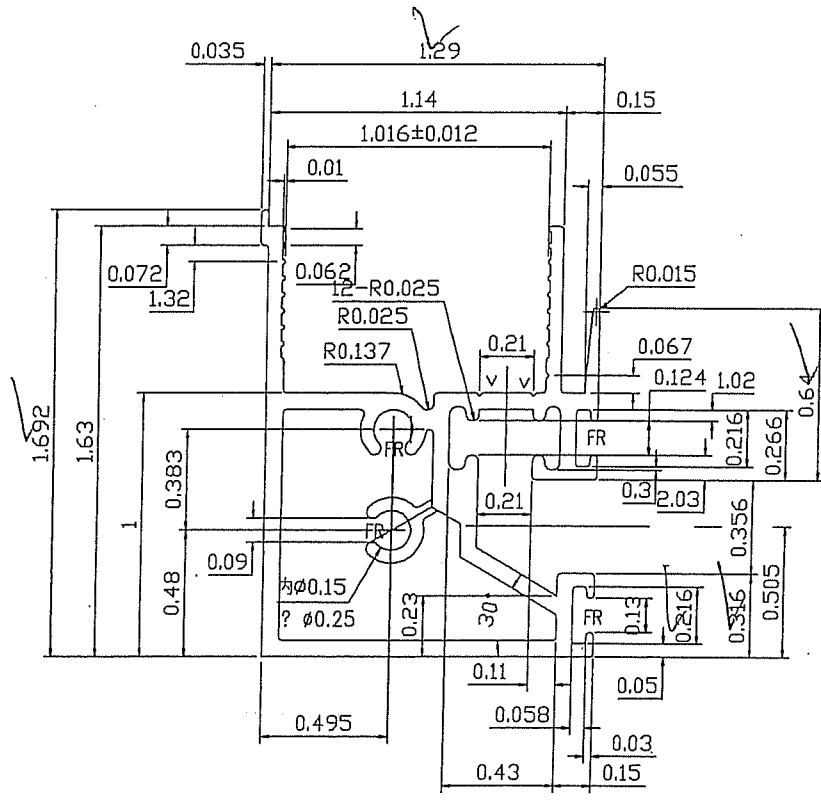
???? 0.93 cm<sup>3</sup>

V=0.3X90°

EST. AREA	3.3	UNSP. TK	1.57±0.12	STD.	GB/T5237-2000	»el/4	JIAGN	ÉÖÆÜ	2003-10-25
EST. WEIGHT	0.9	UNSP. R.	R0.5	ALLOY	6063-T5	Éö°E		ÉÖÆÜ	
PERIMETER	280.2					»öÇ©		ÉÖÆÜ	
SCALE	2:1					Aü×1/4		ÉÖÆÜ	
	59.1								



Éö  
 1/2ö Éö ÄÄ öµ öö Ip  
 1" É 3/4



$V=0.012 \times 90^\circ$

EST. AREA Inch <sup>2</sup>	0.50	RESP. THICKNESS Inch	0.062±0.004	STANDARD	GB/T5237-2000	TYJ	DATE	02.17.2006
EST. WEIGHT Lbs/Foot	0.585	RESP. RADIUS Inch	R0.02	ALLOW/TEMPER	6063-T5	AUDITING	DATE	
PART NUMBER Inch	0.827	ALL SEASONS DOOR & WINDOW INC.			CHECKED	DATE		
SCALE	2:1	1340 METROPOLITAN AVE. BROOKLYN, NY 11237 U.S.A.			APPROVED	DATE		
OUT BOARD Inch	2.126	TEL:001-718-418 8102 FAX:001-718-418 8104						

CUSTOMER	ALL SEASONS	DWG. NO.	MG0111-1	SEC. NO.	MG0111-1
CUSTOMER DRG					

TEST SPECIMEN COMPLIES  
WITH THESE DETAILS.  
ANY DEVIATION IS NOTED  
REPORT NO. NCTL-110-13604-2  
TEST DATE\_ 11/20/11

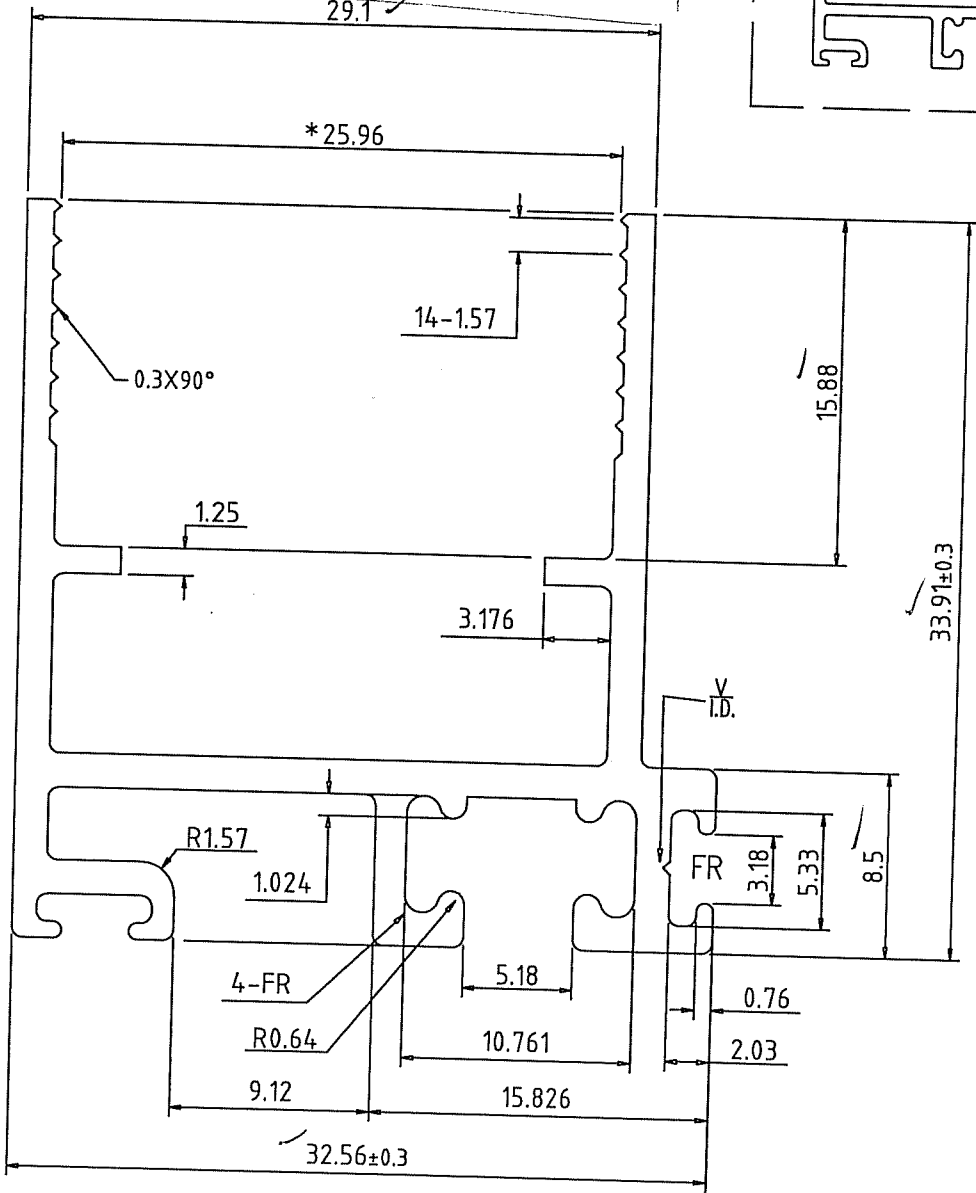
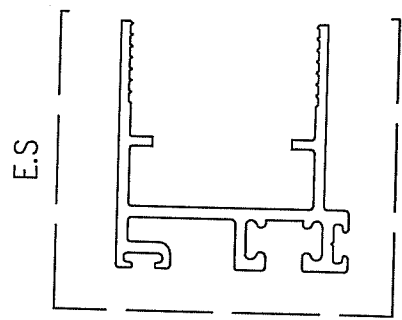






CUSTOMER	ALL SEASONS	DWG. NO.	MG0115	DI - A	MG0115
2181/4°A		0-E1/4(1/4°A	13123	»G 1"	920

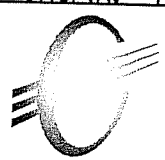
TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED  
 REPORT NO. NCTL-110-13604-a  
 TEST DATE 1/20/11



paint wt=0.6 kg/m  
 ??? 0.62 crh

V=0.3X90°

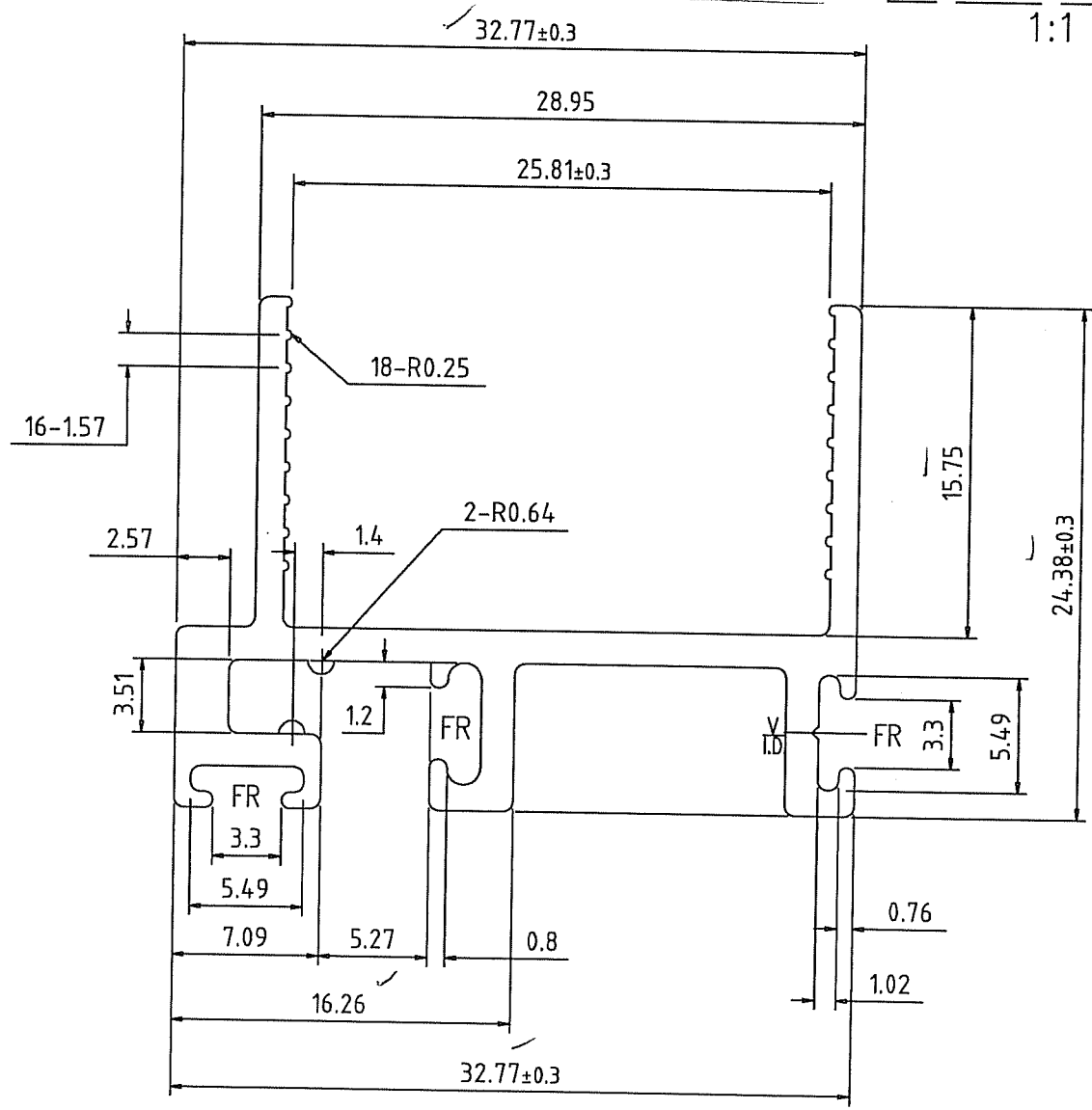
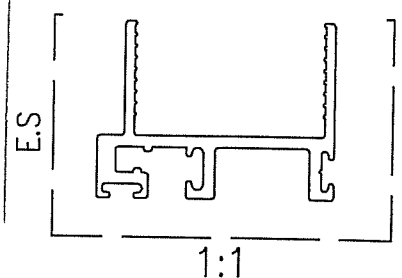
EST. AREA	2.1	UNSP. TK	1.57±0.12	STD.	GB/T5237-2000	»e1/4	JIAGN	EÖÆU	2003-10-25
EST. WEIGHT	0.57	UNSP. R.	R0.5	ALLOY	6063-T5	E6°E		EÖÆU	
PERIMETER	267.1					»dÇ©		EÖÆU	
SCALE	3:1					AG×1/4		EÖÆU	
1a1/20°2	46.8								



ED  
 1/2ø ÈÖ ÅÅ òμ óÐ Ip  
 1" P3/

CUSTOMER	ALL SEASONS	DWG. NO.	MG0114	SEC. NO.	MG0114
2181/4° A		0-1/4/1/4° A	10395	» 1"	580

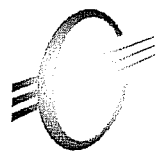
TEST SPECIMEN COMPLIES  
WITH THESE DETAILS.  
ANY DEVIATION IS NOTED  
REPORT NO. NCTL-110-13604-a  
TEST DATE 1/20/11



paint wt=0.46kg/m  
???? 0.63 cm<sup>2</sup>

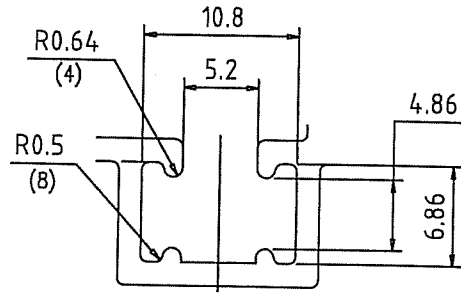
V=0.3\*90°

EST. AREA	1.6	UNSP. TK	1.57±0.12	GB/T5237-2000	» 1/4	JIAGN	EOÆU	2003-10-25
EST. WEIGHT	0.43	UNSP. R.	R0.5	6063-T5	Éδ°E		EOÆU	
PERIMETER	207				» 6Ç©		EOÆU	
SCALE	3:1				AG×1/4		EOÆU	
1a 1/2 0°2	40.5							

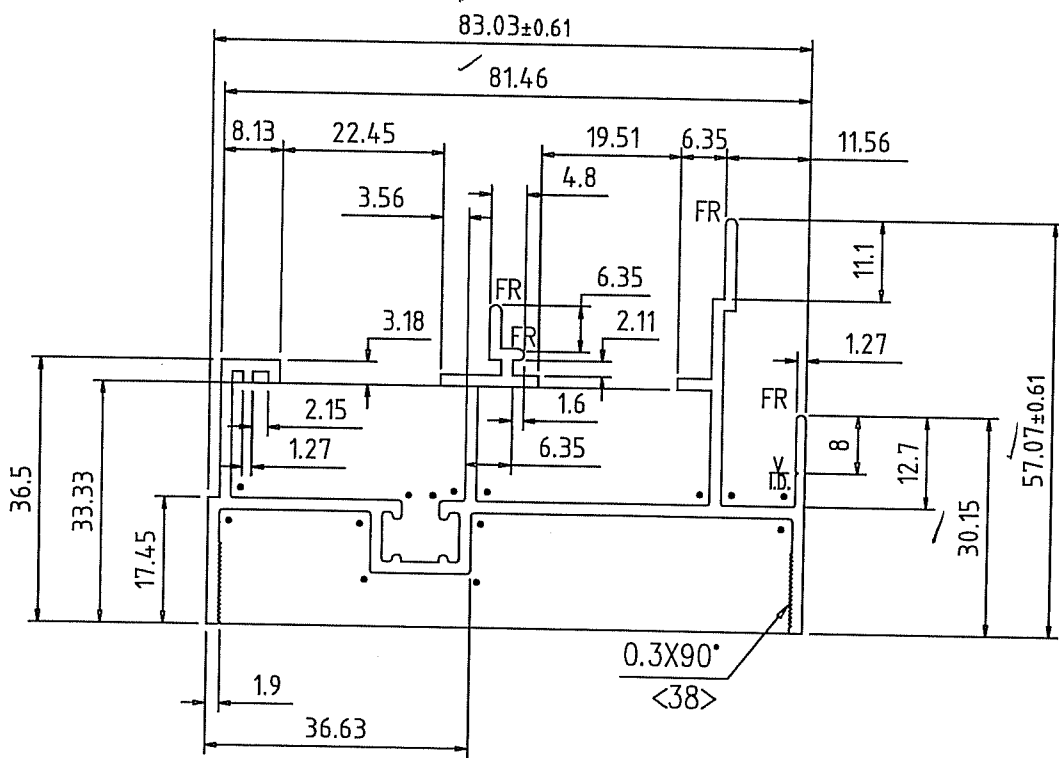


ÉĐ  
1/2 ð ÈÖ ÅÅ òµ ÓĐ İp  
1/» F 3/4

CUSTOMER	ALL SEASONS	DWG.NO.	GX0336	SEC.NO.	GX0336
????		????	15663	??	1880



SCALE 2:1

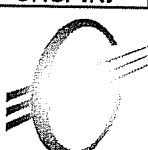


TEST REPORT COMPLIES WITH THESE DETAILS.  
 ANY DEVIATION IS NOTED  
 REPORT NO. NCTL-110-13604-2  
 TEST DATE 1/20/11

• = R0.5  
 V = 0.3X90°

paint wt = 0.58 kg/m

???? 0.78 crh

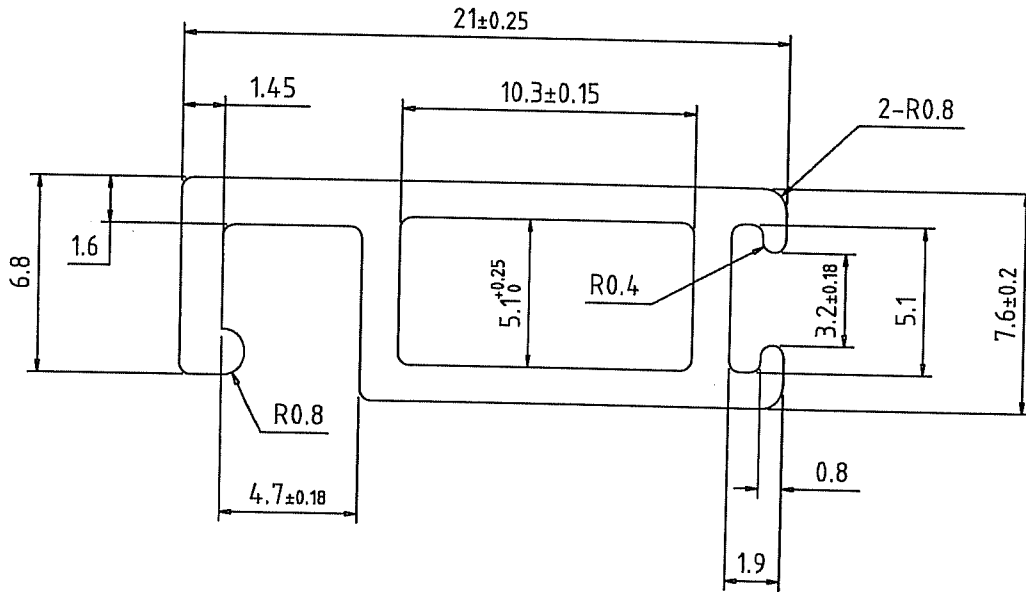
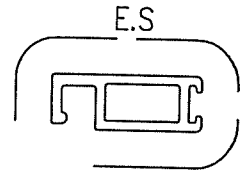
???cm <sup>2</sup> EST.AREA	4.3	????mm UNSP.TK	1.6±0.15	???? STD.	GB/T5237-2000	??	JIAGN	??	2003-10-25
??kg/m EST.WEIGHT	1.2	????mm UNSP.R.	R0.5	???? ALLOY	6063-T5	??		??	
? ? mm PERIMETER	545		? ? ? ? ? ? ? ? ?			??		??	
?? SCALE	1:1		ZHONG SHAN CITY GOLDEN SUN ALUMINIUM LTD.			??		??	
???	94								



CUSTOMER	ALL SEASONS	DWG.NO	GX0247	SĒC.NÒ	GX0247
¿l»S1¼°A		0-E¼1¼°A	51147	»G 1"	580

1:1

ANY DEVIATION IS NOTED  
 REPORT NO. NCTL-110- 13604-2  
 TEST DATE 1/20/11

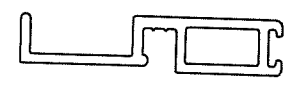


paint wt=0.21 kg/m

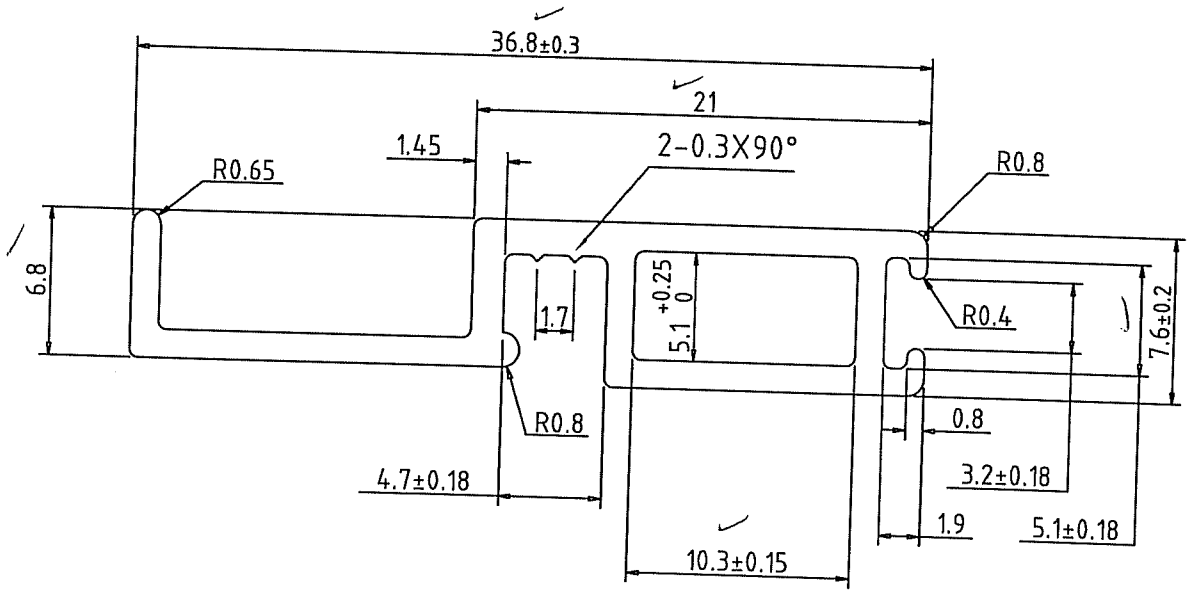
EST. AREA	0.71	UNSP.TK	1.3±0.12	GB/T5237-2000	J1AGN	2003-10-29
EST. WEIGHT	0.2	UNSP.R.	R0.38	6063-T5		
PERIMETER	73.1					
SCALE	4:1					
	22					

CUSTOMER	ALL SEASONS	DWG. NO.	GX0246	SEC. NO.	GX0246
ΔI>§I¼°A		0-E¼I¼°A	51149	>Ú I"	580

TEST SPECIMEN COMPLIES  
WITH THESE DETAILS.  
ANY DEVIATION IS NOTED  
REPORT NO. NCTL-110- 13404-2  
TEST DATE 1/20/11

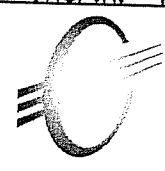


1:1



paint wt=0.29kg/m

EST. AREA	0.99	UNSP. TK	$1.3 \pm 0.12$	STD.	GB/T5237-2000	>el¼	JAGN	EÖÆÚ	2003-10-25
EST. WEIGHT	0.27	UNSP. R.	R0.38	ALLOY	6063-T5	Eδ°E		EÖÆÚ	
PERIMETER	115.2					>δÇ©		EÖÆÚ	
SCALE	3:1					AG×¼		EÖÆÚ	
	37.5								



EĐ  
½δ ÈÖ ÅÅ òμ óĐ Ip  
¼ F¾