

REPORT NUMBER: 3179893TOR-214B GV-PVCSR
ISSUE DATE: April 11, 2010

EVALUATION CENTER
Intertek
6225 Kenway Drive
Mississauga, Ontario L5T 2L3

RENDERED TO

Artistic Skylight Domes Ltd.
2 Guided Court
Etobicoke, ON M9V 4K6

Attention: Nenzio Ferrazzo

PRODUCT EVALUATED: 48"x48" GV-PVCSR Venting Glass Skylight
EVALUATION PROPERTY: Physical Tests

Report of Testing for Artistic Skylights Domes Ltd. on a GV-PVCSR 48"x48" deck-mounted venting glass skylight for compliance with the applicable requirements of the following criteria: CAN/CGSB-63.14-M89 "Plastic Skylights".

"This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program."

1 Table of Contents

| | | |
|----------|---|-----------|
| 1 | Table of Contents | 2 |
| 2 | Introduction | 3 |
| 3 | Test Specimen | 3 |
| 3.1. | SPECIMEN AND ASSEMBLY DESCRIPTION | 3 |
| 4 | Testing and Evaluation Methods | 7 |
| 4.1. | AIR INFILTRATION TEST (par. 7.2.3) | 7 |
| 4.2. | WATER RESISTANCE TEST (par. 7.2.4)..... | 7 |
| 4.3. | UNIFORM STRUCTURAL LOAD TEST (par. 7.2.5)..... | 7 |
| 4.4. | SNOW LOAD (par. 7.2.6) | 7 |
| 5 | Testing and Evaluation Results | 8 |
| 5.1. | Air Infiltration Test (par. 7.2.3) | 8 |
| 5.2. | Water Resistance Test (par. 7.2.4)..... | 8 |
| 5.3. | Uniform Structural Load Test (par. 7.2.5)..... | 8 |
| 5.4. | Snow Load Test (par. 7.2.6) | 8 |
| 6 | Conclusion | 9 |
| | Appendix A – Parts List / Drawings | 10 |

Report of Testing for Artistic Skylights Domes Ltd. on a GV-PVCSR 48"×48" deck-mounted venting glass skylight for compliance with the applicable requirements of the following criteria: CAN/CGSB-63.14-M89 "Plastic Skylights".

2 Introduction

Intertek has conducted performance testing for Artistic Skylight Domes Ltd. on a 48"×48" GV-PVCSR deck-mounted venting glass skylight for the Intertek Certification Program. The skylight was submitted to the Intertek laboratory in Mississauga, Ontario on August 17, 2009. Testing was conducted in accordance with the standard methods of CAN/CGSB-63.14-M89 "Plastic Skylights". This evaluation began August 21, 2009 and was completed October 5, 2009.

3 Test Specimen

3.1. SPECIMEN AND ASSEMBLY DESCRIPTION

- Model:** • GV-PVCSR Skylight
- Classification:** • Class C, Type 2, formed
- Type:** • Deck-mounted, aluminum capped, venting glass skylight having one top hinged projected out sash.
- Manufacturer:** • Artistic Skylight Domes Ltd., 2 Guided Court, Etobicoke ON M9V 4K6
- Condition:** • New and undamaged
- Overall Size:** •

| Overall (including integral nailing fin) | |
|--|-------------------|
| Width | Height |
| 1457 mm (57-3/8") | 1457 mm (57-3/8") |

- Frame:**
- Extruded vinyl main frame members (Extrusion Profiles Die No. 329C) with mitred and welded corners. The frame was complete with an integral nailing fin.
 - Aluminum Head Flashing- Brake-formed 'Z'-shaped 0.46 mm (0.018") thick aluminum flashing having a 264 mm (10-1/2") long to 337 mm (13-1/4") long leg (fastened to the roof deck), a 60 mm (2-3/8") outward return, and a 45 mm (1-3/4") long drip edge leg. The flashing measured 1803 mm (71") long overall across the larger leg, the ends of the large leg cut at an angle, and the ends of the return folded at an angle so that the drip-edge leg measured 1378 mm (54-1/4") wide overall.
 - Installation: The unit was installed onto a 2x6 wood support frame with 1/2" plywood sheathing secured to one face, simulating an inclined roof surface, the frame measuring 2438 mm (96") square overall. The skylight was installed over a centrally located opening, its perimeter lined with 2x6 wood members, and measured 1222 mm (48-1/8") wide by 1222 mm (48-1/8") high.
-

Frame (cont'd):

- The order of installation was as follows:
The exterior of the plywood, from the bottom edge of the support frame up to the bottom edge of the opening was faced with self-adhering peel-and-stick waterproofing membrane. A bed of silicone was applied to the exposed membrane along the bottom edge of the opening, this silicone bed continued up each side of the opening for approximately 400 mm (16") up the up jambs.
- The skylight was then placed over the opening and fastened to the plywood along the head and jambs with 1-1/4" long roofing nails installed in the pre-punched holes along the head and jamb nailing fins, the holes on 122 mm (4-13/16") centres. There were no fasteners used along the exposed sill nailing fin.
- Strips of waterproofing membrane measuring approximately 457 mm (18") wide were then applied along each side and along the top of the unit, covering the exposed nailing fin and adjacent plywood surface.
- Conventional three-tab asphalt shingles were then installed over the membrane (butting up against the side of the skylight frame) along each side of the unit using 1-1/4" long roofing nails. The membrane was also applied over the nailing fin and adjacent plywood along the top of the unit, the membrane continuous to the top edge of the plywood, and lapping over the membrane along the sides of the unit.

| Number of Installation Fasteners (Roofing Nails) | |
|--|------------------|
| Head Nailing Fin | Jamb Nailing Fin |
| 12 | 11 |

- A brake-formed aluminum flashing was then installed over the head of the skylight using the roofing nails, two per end. The waterproofing membrane was applied over the top edge of the flashing, existing membrane above the flashing, and over the shingles either side of the flashing. This section of membrane was the full width of the support frame, overlapping the flashing by 230 mm (9"), the top of the adjacent shingles by 204 mm (8"), and continued up to the top edge of the plywood sheathing.

Note: For air tightness testing only, the inside perimeter of the skylight support frame opening was sealed with red air barrier tape to the inside perimeter of the PVC skylight frame such that the plywood sheathing-to-PVC skylight frame joint was sealed as well as the joint between the plywood sheathing and 2x6 wood support members lining the opening. The tape was removed for water tightness testing.

Sash:

- **Members:** Extruded aluminum members having mitred corners supported by two metal chevron keys per corner fitted to tracks on the exterior face, the outer key fastened to the corresponding sash member with a #8×1/2" pan head self-drilling tek screw. The corners were sealed between the glazing gasket and outer corner key with silicone on the exterior, and between the weather-strip kerf (including the kerf) and the back edge of the sash along the inside of the corner. The inside perimeter of the sash was fitted with a vinyl cap having mitred corners. An angle-shaped metal clip at the top of each stile was retained by the corresponding corner key retaining screw. These clips measured 32 mm (1-1/4") wide with a 32 mm (1-1/4") long leg covering/retaining the head of the hinge pin, and a 19 mm (3/4") long leg fastened to the face of the sash over the corner key.

- **Aluminum Cap-** Extruded aluminum cap members (Bon L Die No. PA-37250) having welded mitred corners

| Sash Size | |
|--------------------|--------------------|
| Width mm (in.) | Height mm (in.) |
| 1348 mm (53-1/16") | 1348 mm (53-1/16") |

Locks and Hardware:

- **Hinges:** The sash was operated on two 5.2 mm (13/64") thick galvanized steel knurled nails (one per stile), each measuring 130 mm (5-1/8") long overall, fitted through openings at the top of each stile and engaging an internal port running the length of the head, the nails secured in the ports with silicone applied to the knurled portion. The openings at the end of each stile measured 6.8 mm (17/64") in diameter and were located 7.9 mm (5/16") on centre down from the top end of each stile. The head on each nail measured 11 mm (7/16") in diameter, the shank of the nail being knurled for 68 mm (2-11/16"), the knurling starting 51 mm (2") below the head.
- **Operator:** The sash was operated by a chain type roto gear hardware module (Truth Hardware Part No. 42.65) fastened to the sill using two #10×2" pan head "allthread" screws and to the adjacent wood 2x6 curb member with using two #8×2" flat head screws. The operator was located such that its chain was equi-distant from each jamb. The operator was sealed to the sill about the punched opening for the chain with silicone. The chain engaged a sash bracket (Truth Hardware Part# 40470) via a detachable sash pin (Truth Hardware Part# 20642). The sash bracket was fastened to the sash sill rail using two #8×1/2" pan head self-drilling tek screws.

Drainage:

- None (original slots along sill sealed with silicone).
-

- Weather-stripping:**
- The exterior face of the frame was single weather-stripped with a co-extruded rubber draft seal.
 - The interior face of the sash was single weather-stripped with kerf-inserted flexible vinyl bulb gasket (Vinyl Profiles Part No. V-75) having butted corners, the corners sealed with silicone.
- Glazing:**
- Factory sealed glazing unit having an exterior sheet of nominally thick 5 mm tempered glass, an interior sheet of laminated 3mm/3mm and a metal spacer with a 6.8 mm (17/64") air gap. The glass was inscribed with the following: "OFG Tempered, ANSI Z97.1 2004, 16 CFR 1201 II, SGCC 3023 3/16 UA 05/26/09". Overall IG thickness was 17.5 mm (11/16").
- Glazing Method:**
- Laid in glazed on the interior on a bed of silicone applied to and underlying kerf-inserted rubber glazing gasket (Vinyl Profiles Part No. V-76), and retained with the extruded aluminum capping on the exterior. Double-sided adhesive backed closed cell foam tape measuring 6.4 mm wide by 3.2 mm thick (1/4"x1/8") was sandwiched between the exterior face of the sealed unit and the back side of the aluminum capping. The aluminum cap was fastened to the skylight frame using #8x3/4" self-drilling tek screws, installed through the side of the capping. Neoprene shims, secured by a dab of caulking, were fitted between the edge of the sealed unit and the down-turned leg of the capping. The shims measured 38 mm long by 25.4 mm wide by 4.8 mm thick (1-1/2"x1"x3/16").
- Drawings:**
- Plan and Cross-Section Drawing:
Artistic Skylight Domes drawing V-PVCSR, undated
 - Component Drawings:
Extrusion Profiles Inc. Die No. 329c, titled "Self Flashing Frame", dated Jan 09, 2004
Spectra Aluminum Products Die No. SS-1631, titled "Sash Frame", dated Jan/13/2000
Vinyl Profiles Ltd. Drawing V-130, titled "Artistic Skylight Domes-Sash Thermal Cover", undated
BonL Canada Inc. Die No. PA-37250, untitled, dated Nov/01/1995

Drawings are enclosed with this report in Appendix A.

4 Testing and Evaluation Methods

4.1. AIR INFILTRATION TEST (par. 7.2.3)

The Air Infiltration test was performed in accordance with ASTM E283-04, "*Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*" and evaluated with the requirements outlined in par. 6.6.1.

The air infiltration test was performed using a test pressure of 75 Pa (1.57 psf). The maximum air infiltration was calculated and compared to the allowable air infiltration.

4.2. WATER RESISTANCE TEST (par. 7.2.4)

The Water Resistance test was conducted and evaluated in accordance with ASTM E331-00, "*Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*" and evaluated with the requirements outlined in par. 6.6.2. The Water Resistance test was performed using no air pressure differential across the specimen.

The Water Resistance test was performed with the skylight installed into a make-shift roof opening as installed by the client, the installation details contained herein. For the water penetration test, the roof was placed at a 15° incline from horizontal at the specified pressure differential and a water spray rate of at least 204 L/m² per hour (5.0 U.S. gal/ft² per hour). The test duration was 15 minutes.

4.3. UNIFORM STRUCTURAL LOAD TEST (par. 7.2.5)

The Uniform Structural Load test was conducted in accordance with ASTM E330-02, "*Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference*," Procedure A and evaluated with the requirements outlined in par. 6.6.3.

A load equal to one-half the anticipated allowable load was applied and held for less than one minute. The deflection readings were then zeroed. Deflection measurements were taken at the mid-span and ends of the sill. An anticipated allowable load of 2000 Pa (41.8 psf) was then applied and held for not less than 10 seconds. The load was then released. Permanent deflection readings were taken after a recovery period of not less than one minute nor more than five minutes at zero load. The Uniform Structural Load test was performed in both the positive and negative directions. The skylight was evaluated for failure or permanent deformation of any part of the skylight that would cause any operational malfunction.

4.4. SNOW LOAD (par. 7.2.6)

Since the IG unit of the skylight contains a sealed air space, the Uniform Structural Load test (par. 7.2.5) at 2000 Pa (41.8 psf) positive pressure fulfills the requirements of the snow load test.

5 Testing and Evaluation Results

5.1. Air Infiltration Test (par. 7.2.3)

| GV-PVCSR 48×48 | |
|--|---|
| Net Infiltration: | 0.85 m ³ /h (0.5 cfm) |
| Skylight Crack Length | 5.033 m (16.50 ft) |
| Infiltration rate: | 0.17 m ³ /h/m (0.030 cfm/ft) |
| Maximum allowable air infiltration rate: | 2.79 m ³ /h/m (0.5 cfm/ft) |

The 48"×48" GV-PVCSR Venting Skylight **MET** the performance levels specified in CAN/CGSB-63.14-M89 for Air Infiltration.

5.2. Water Resistance Test (par. 7.2.4)

| GV-PVCSR 48×48 | |
|----------------------------|--|
| Pressure Differential | 0 Pa (0 psf) |
| Skylight Inclination Angle | 15° |
| Results: | No water leakage observed and no water retained within the frame member. |

The 48"×48" GV-PVCSR Venting Skylight **MET** the performance levels specified in CAN/CGSB-63.14-M89 for Water Resistance.

5.3. Uniform Structural Load Test (par. 7.2.5)

| Permanent Deflection Test at Structural Pressure | | |
|--|--|---------------------|
| Full-Load Structural Test Pressure* | Positive Load | Negative Load |
| | +2400 Pa (+50 psf)* | -2400 Pa (-50 psf)* |
| Note | * As testing was carried out concurrently to more than one standard, uniform load testing was carried out at slightly higher pressures that the required test pressure of ±2000 Pa (±41.8 psf). | |
| Post-test Details | After the test loads were released, the skylight was inspected and there was found to be no failure or permanent deformation of any part of the skylight that would cause any operational malfunction. | |

The 48"×48" GV-PVCSR Venting Skylight **MET** the performance levels specified in CAN/CGSB-63.14-M89 for Uniform Structural Load.

5.4. Snow Load Test (par. 7.2.6)


The requirements of the snow load test were fulfilled using the procedure outlined in par. 7.2.5 of CAN/CGSB-63.14-M89.

6 Conclusion

The Artistic Skylight Domes Ltd. 48x48 GV-PVCSR venting skylight described and tested herein met the air infiltration, water penetration, uniform structural load and snow load performance requirements of CAN/CGSB-63.14-M89, "*Plastic Skylights*".

INTERTEK

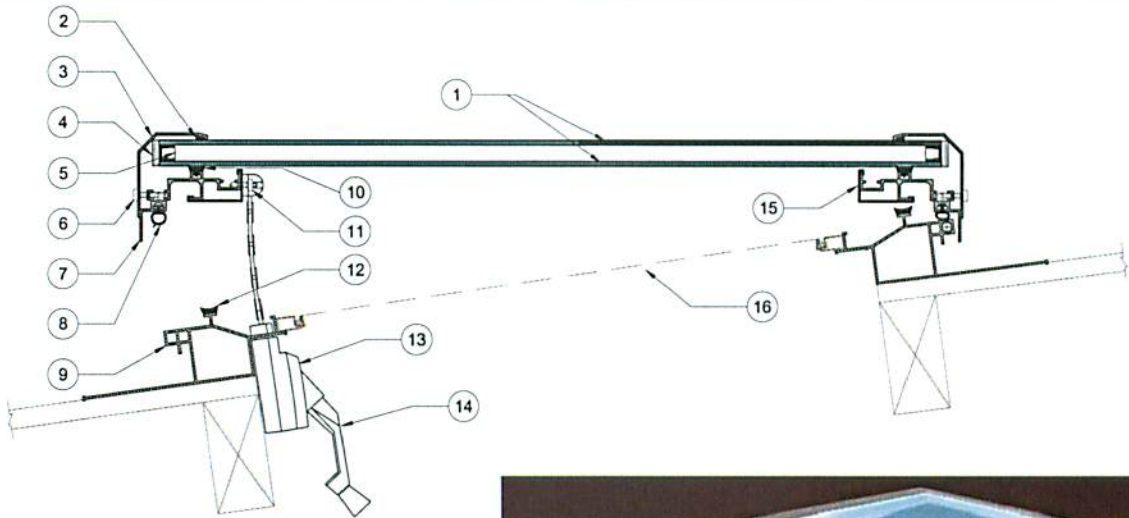
Tested by Mustafa Swalah and Claudio Sacilotto

Reported by: 
David Wren
Physical Testing Services

Reviewed by: 
Claudio Sacilotto
Physical Testing Services

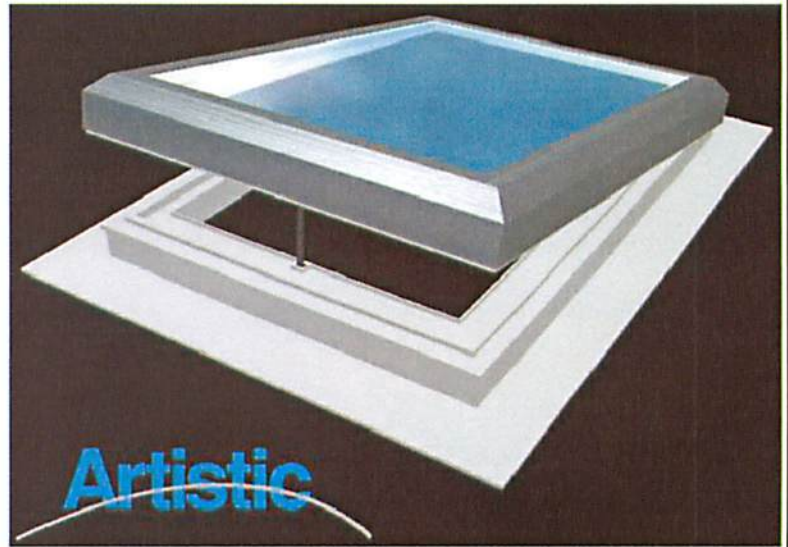
Appendix A – Parts List / Drawings

(Parts List / Drawings – 5 pages)



MODEL GV-PVCSR (SELF FLASHING VENTING – GLASS GLAZING)

| | DETAIL |
|---|--|
| UNIT 1: LOW-e ON THIRD SURFACE | 1 – CLEAR TEMPERED 2 – CLEAR TEMPERED |
| UNIT 2: LOW-e ON THIRD SURFACE | 1 – BRONZE TEMPERED 2 – CLEAR TEMPERED |
| UNIT 3: LOW-e ON THIRD SURFACE with ARGON GAS FILL | 1 – CLEAR TEMPERED 2 – CLEAR TEMPERED |
| UNIT 4: LOW-e ON THIRD SURFACE with ARGON GAS FILL | 1 – BRONZE TEMPERED 2 – CLEAR TEMPERED |
| UNIT 5: LOW-e ON SECOND SURFACE | 1 – CLEAR TEMPERED 2 – CLEAR LAMINATED (0.030) |
| UNIT 6: LOW-e ON SECOND SURFACE | 1 – BRONZE TEMPERED 2 – CLEAR LAMINATED (0.030) |
| UNIT 7: LOW-e ON SECOND SURFACE with ARGON GAS FILL | 1 – CLEAR TEMPERED 2 – CLEAR LAMINATED (0.030) |
| UNIT 8: LOW-e ON SECOND SURFACE with ARGON GAS FILL | 1 – BRONZE TEMPERED 2 – CLEAR LAMINATED (0.030) |



PARTS LIST

MODEL GV-PVCR (SELF FLASHING VENTING – GLASS GLAZING)

| PARTICULAR | MANUFACTURER |
|---|------------------------------------|
| 1. GLASS GLAZING | GUARDIAN INDUSTRIES CORP., U.S.A. |
| 2. 3/8" x 1/2" DOUBLE FACE VINYL FOAM GLAZING TAPE | GASKA TAPE INC. |
| 3. EXTRUDED ALUMINUM RETAINING FRAME-MEDIUM (6063-T5 ALLOY) | BON-L, DIE # PA-37250 |
| 4. NEOPRENE SETTING BLOCK (3/4"x1"x1 1/2") BACK ADHERED | COMBI-FAB PRODUCTS |
| 5. ALUMINUM SPACER WITH POLYSULFIDE SEALANT | TRIPLE SEAL LTD. |
| 6. #8 - 18 x 3/8" ASSEMBLY SCREW | ROBERTSON, CANADA |
| 7. EXTRUDED ALUMINUM SASH FRAME (6063-T5 ALLOY) | SPECTRA, DIE # SS-1631 |
| 8. BULB GASKET (FLEXIBLE PVC-LV STABLE) | VINYL PROFILES LTD., # V-75 |
| 9. EXTRUDED RIGID THERMAL PVC SELF FLASHING FRAME | EXTRUSION PROFILES INC., DIE # 328 |
| 10. SANTOPRENE CUP GASKET (UV STABLE) | VINYL PROFILES LTD., # V-76 |
| 11. #8 - 18 X 3/8" ASSEMBLY SCREW | ROBERTSON, CANADA |
| 12. CO-EXTRUDED RUBBER DRAFT SEAL | EXTRUSION PROFILES INC. |
| 13. CHAIN DRIVE OPERATING MECHANISM | TRUTH HARDWARE, U.S.A. |
| 14. TELESCOPING POLE-HOOK / HANDLE | TRUTH HARDWARE, U.S.A. |
| 15. EXTRUDED RIGID PVC SASH THERMAL FRAME COVER (UV STABLE) | VINYL PROFILES LTD., # V-130 |
| 16. INSECT SCREEN | PHIFER WIRE PRODUCTS, INC., USA |

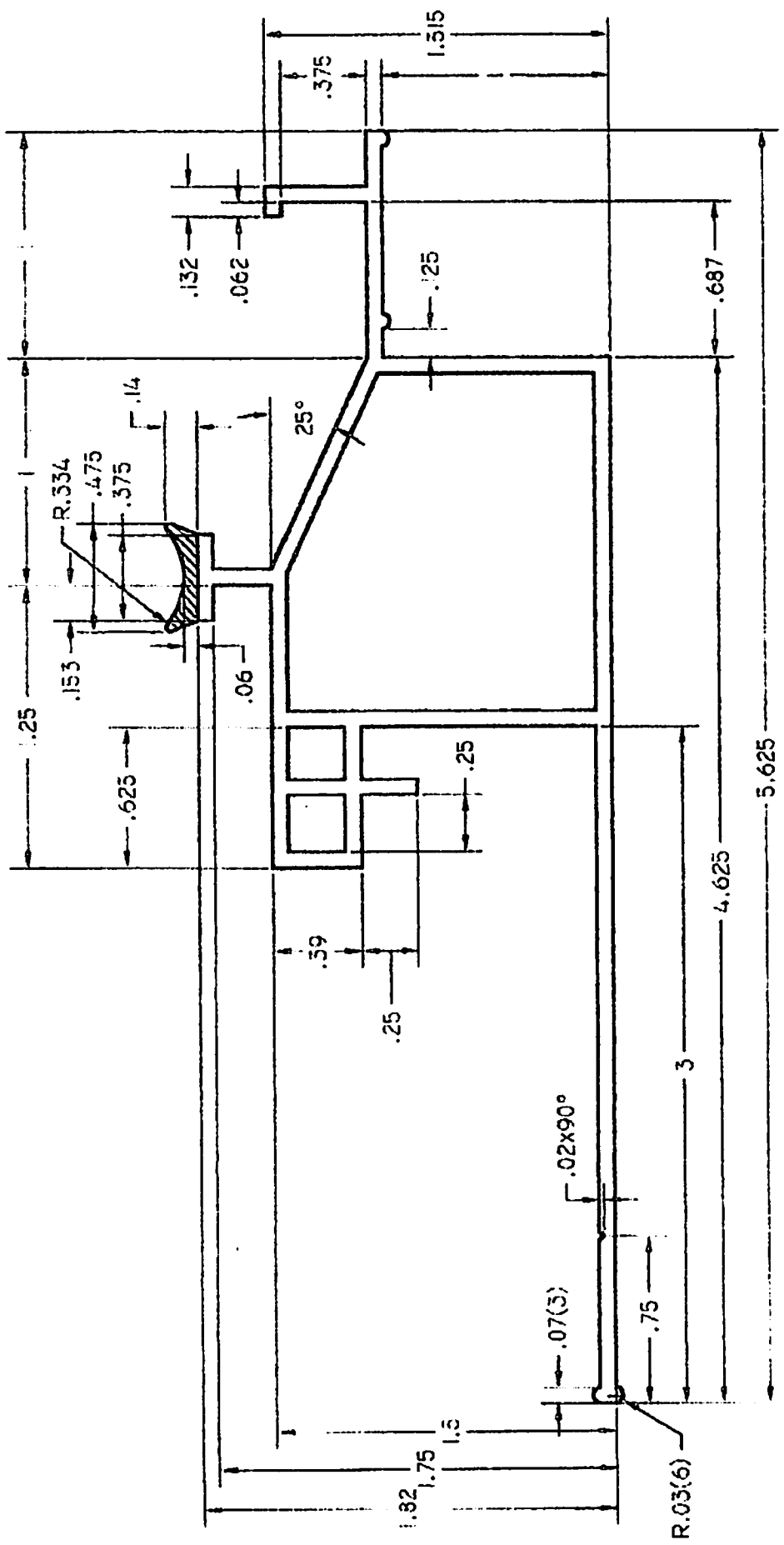


2 Guided Court
 Etobicoke, Ontario, Canada M9V 4K6
 E-mail: artistic@istar.ca
 Web: www.artisticskylight.com

SKYLIGHT MODEL:

GV-PVCSR

| DATE | APPROVED |
|------|----------|
| | |
| | |
| | |
| | |



EXTRUSION PROFILES INC.
 9833 Meridian Rd. #17
 Meridian, MD 21113
 Tel. 800-471-3488
 Fax: 800-471-6104

| | |
|-------------------------------------|---|
| TITLE SELF FLASHING FRAME | |
| SIZE Dwg BY | DWG DATE Mimmy JAN. 09, 2004 |
| SCALE | SHEET Dwg NO DIE #: 329C |

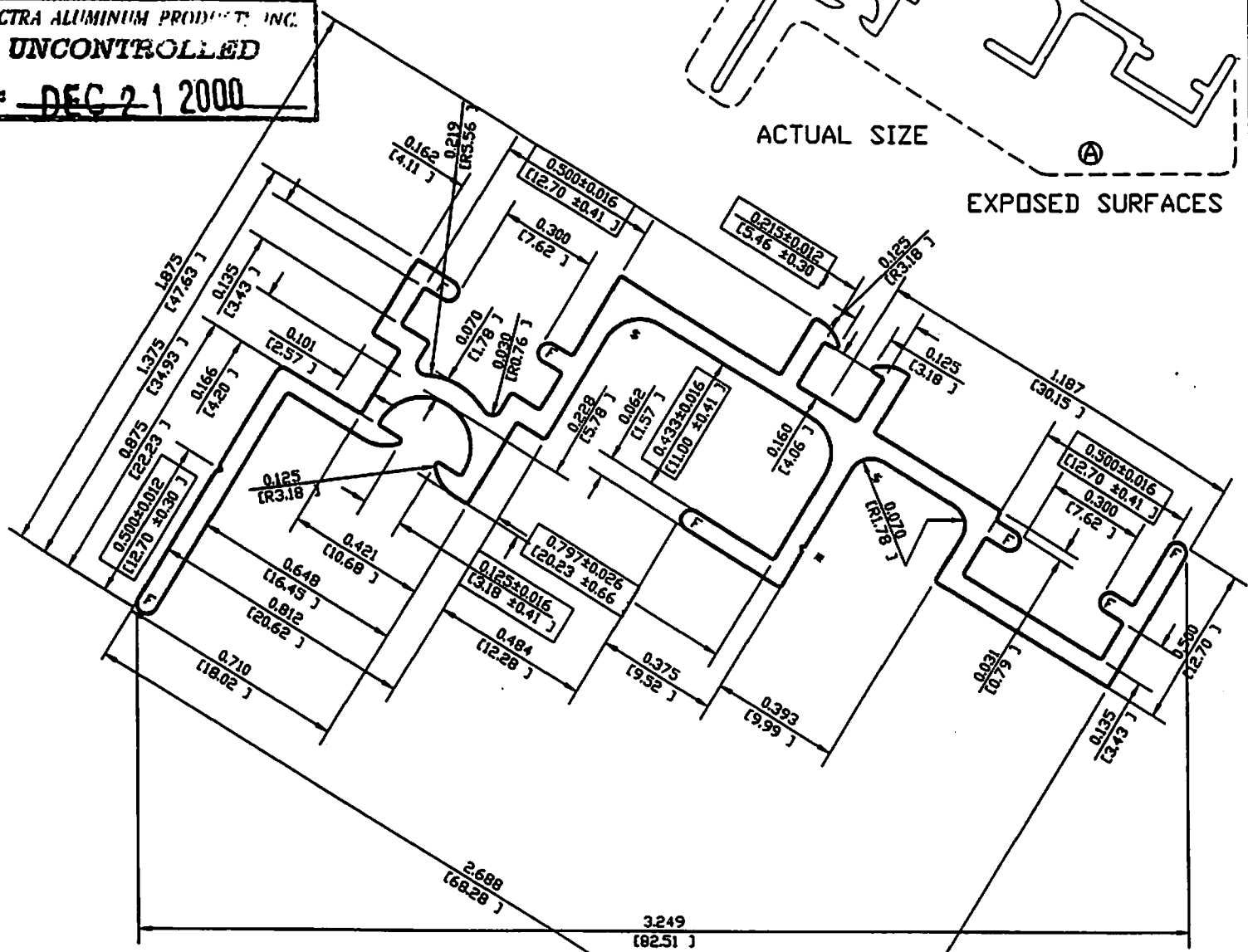
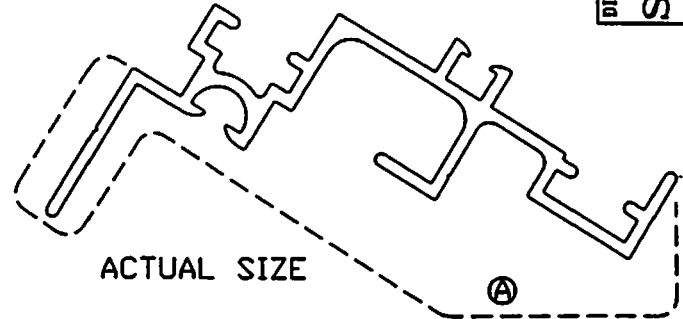
DESCRIPTION: **SASH FRAME** PROPOSAL#: **SP-11740**

CUSTOMER # **01187233** CUSTOMER: **ARTISTIC SKYLIGHTS**

DIE NO. **SS-1631**

| | | |
|-----------|--------------------------|------|
| LET. | REVISION | BY: |
| NOV/14/00 | A EXPOSED SURFACES ADDED | S.B. |

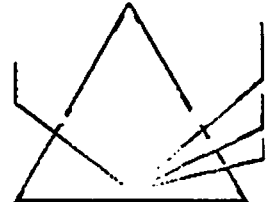
SPECTRA ALUMINUM PRODUCTS, INC.
UNCONTROLLED
 Date: **DEC 21 2000**



NOTE: WALL THICKNESS IS 0.062" (1.57mm) UNLESS OTHERWISE SHOWN
 NOTE: BREAK ALL CORNERS AT 0.010" (0.25mm) UNLESS OTHERWISE SHOWN
 NOTE: \$ INDICATES A 0.125" (3.18mm) RADIUS
 NOTE: F INDICATES A FULL RADIUS

X.XXX = CRITICAL DIM.
 * = 0.010 [0.25] X 90° (SPECTRA ALUMINUM ID MARK)

NOTE: STANDARD ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.



SPECTRA
 ALUMINUM PRODUCTS INC

| | | | | | | | |
|-----------------------|---|---------------------------------|----------------------|------------------------------------|-------------------------------------|------------|-------|
| ING: 1 | WEIGHT: <input checked="" type="checkbox"/> | PIECE: <input type="checkbox"/> | ALLOY: CHECK P.D. | TEMPER: TS | EST. AREA: 0.471 sq.in 303.87 sq.mm | OUT. PER.: | in mm |
| PRESS NO.: 1 | CONT'R: 6" | PKT.: 3/4" | EXT. RATIO: | EST. PER.: 14.280 in 362.71 mm | FACTOR: | | |
| BACKER NO.: BA-1631-1 | DIE SIZE: 8' x 1' | BOLSTER NO.: ED-1D | BACKER SIZE: 8' x 3' | EST. VT.: 0.556 lbs/ft. 0.826 kg/m | C.C.D.: | in mm | |
| GAUGE: | NITROGEN: <input type="checkbox"/> | CAV.: 1 | DATE: JAN/13/2000 | | | | |
| DW: BY: S.B. | SCALE: 2:1 | | | | | | |

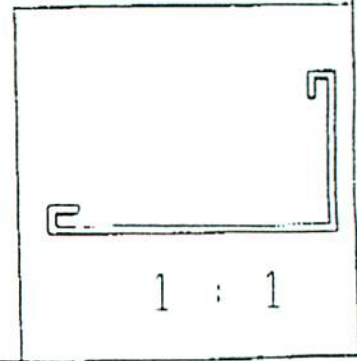
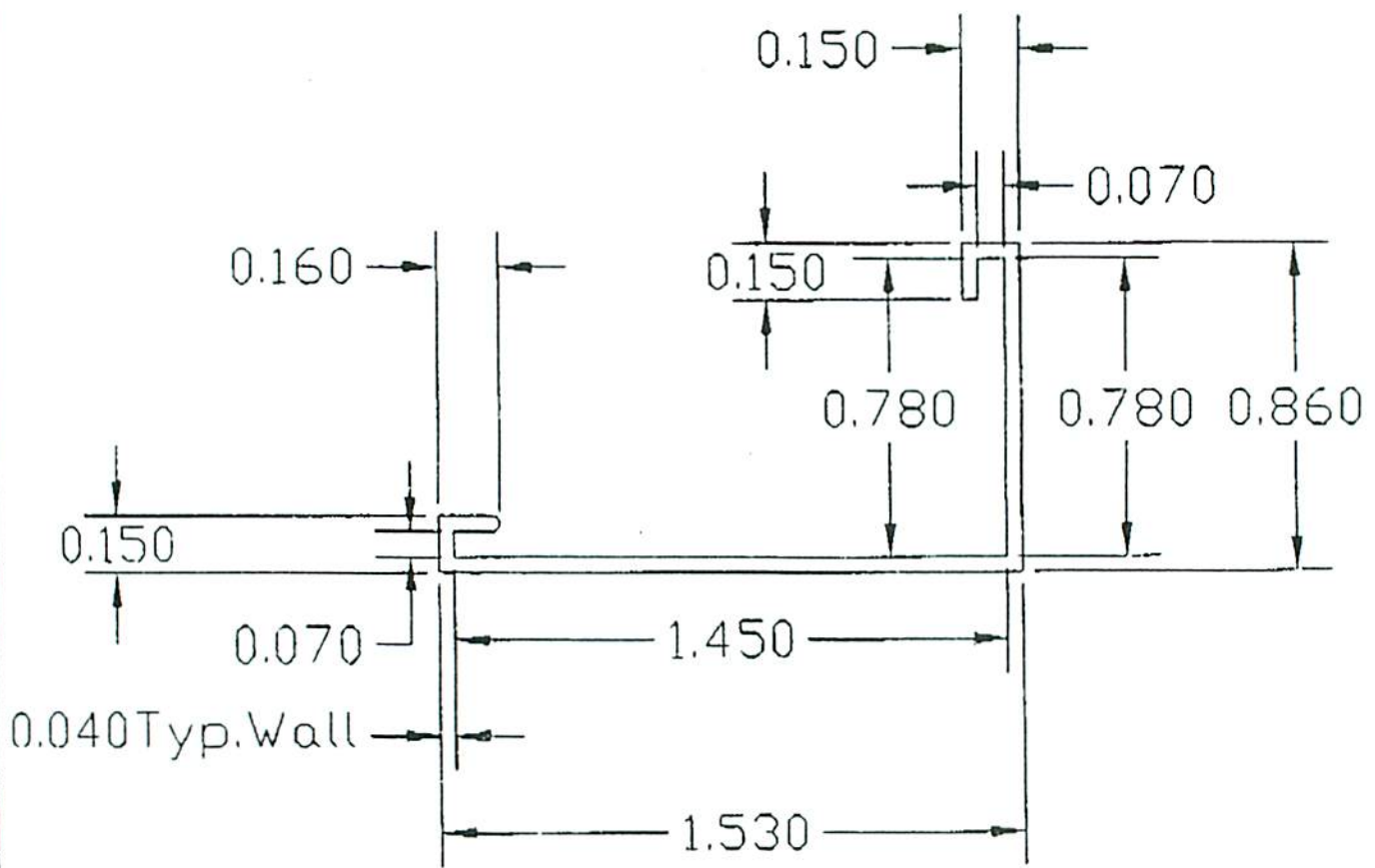


Vinyl Profiles Ltd.

120 Norfinch Drive Unit 6,
North York, Ont. M3N 1X3
Tel: 416-739-6336
Fax: 416-739-7070

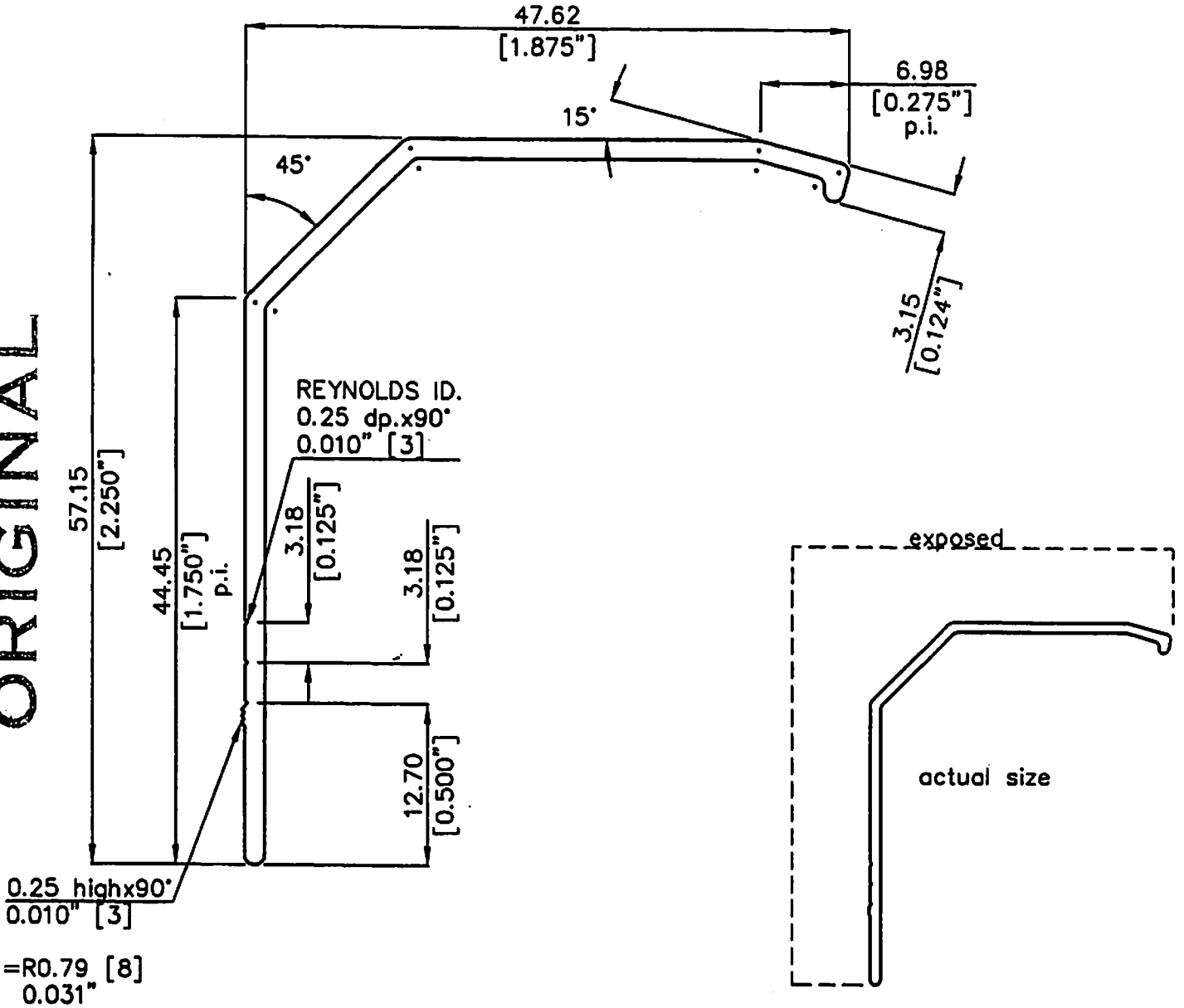
Artistic Skylight Domes - Sash Thermal Cover

V-130



| | | |
|--------------|-------------------|----------|
| PROPOSAL NO. | CUSTOMER | DIE NO. |
| | ARTISTIC SKYLIGHT | PA-37250 |

ORIGINAL



| | | | | | | | |
|---|-----------------|-------------------|---|-----------------------|---------------------------|---------------------------|----------|
| VENDOR: | | DATE ORDERED: | | DATE DUE: | | P.O.#: | |
| ITEM | ACCOUNT # | QTY | COPY NO. | DESCRIPTION | | | TOTAL \$ |
| 1 | | | | | | | |
| Rev. # | Revision | | Date | Rev. # | Revision | | Date |
| CUSTOMER PART # | | | RomiShape <input type="checkbox"/> | DESCRIPTION: DOME CAP | | | |
| CONTAINER: 7" | DIE TYPE: D+B | BACKER: 37250 | | UNMARKED THICKNESS: | 1.27 mm | 0.050 inches | |
| NO. CAVITIES: 2 | RING: 9" STEP | BOLSTER: 1B-25428 | | UNMARKED RADII: | FULL mm | FULL inches | |
| DIE RATIO: 81 | DIE PLATE: 13/4 | SUB-BOL: - | | DRAWN: FORBIE | AREA: 154 mm ² | 0.238 inches ² | |
| DIE STACK: 9x4 | FEEDER: PIF | SHIM: - | | SCALE: 2:1 | MASS: 0.425 kg/m | 0.286 lbs/ft | |
| Sharp corner tolerance: + 0.40 mm 0.016 inches | | | | DATE: NOV/01/1995 | PERIMETER: 197.9 mm | 7.791 inches | |
| Standard Aluminum Association tolerances apply unless otherwise stated | | | | ALLOY: 6063 | EXT. PER: - mm | - inches | |
| Bon L Canada Inc. AURORA, ONTARIO PICKERING, ONTARIO RICHMOND HILL, ONTARIO STE. THERESE, QUEBEC | | | | CLASS: SOLID | FACTOR: 466 metric | 27 Imperial | |
| | | | | DISKETTE: | C.C.D.: 73 mm | 2.87 inches | |