



AOAO HARBOR LIGHTS

WINDOW REPLACEMENT POLICY

Effective June 28, 2001

Many owners have already replaced their windows and substituted aluminum framed, sliding plate glass for the sets of louvers. This deviation from the original specifications was approved by the board of directors in 1991.

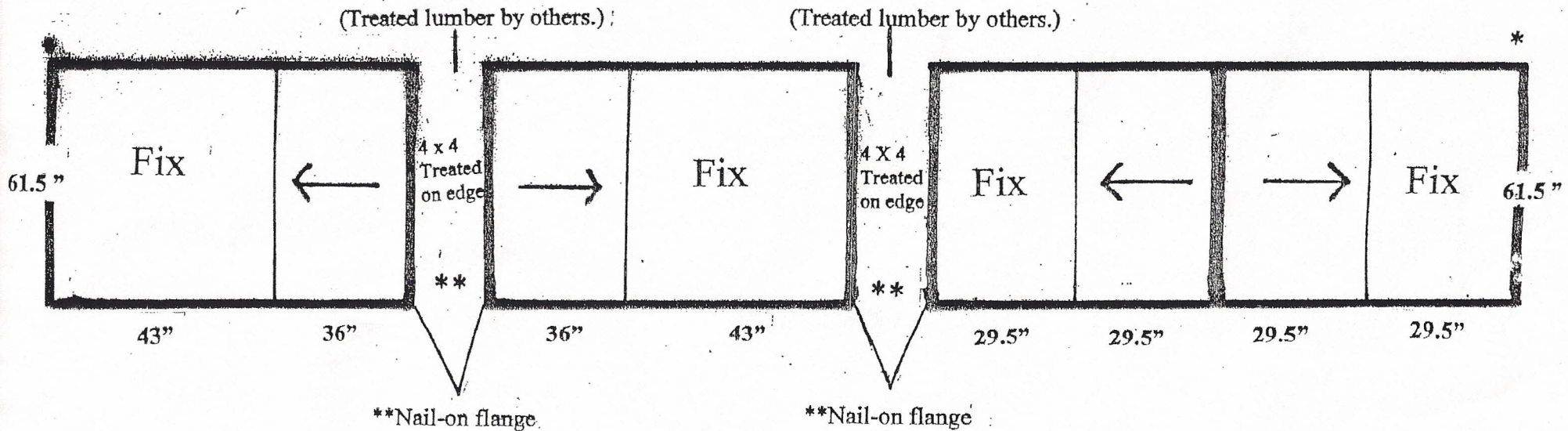
The aesthetics of the building and the uniformity of appearance are of utmost concern, and Condominium law allows little leeway in changing the outward appearance of a property. Therefore, the board of directors has established the following policy for window replacement:

- 1) June 28, 2001 the board of directors approved vinyl window frames in addition to the existing aluminum frames.
- 2) The window opening must remain the exact same size; it cannot be made smaller or larger.
- 3) Each room must be entirely aluminum or entirely vinyl. Owners may replace only one room at a time, i.e. living room or bedroom, but materials cannot be combined in one room.
- 4) The approved color of vinyl window frames is (almond) only - **no exceptions**.
- 5) Windows and frames must be installed by a qualified person (licensed contractor), who will accept liability for damages or injuries from faulty installation. (Manufacturer provides warranty for material defects.)
- 6) Owner of unit and installer are required to hold Harbor Lights harmless for any injuries or damages if they are determined to be a result of faulty installation. (Manufacturer provides warranty for material defects.)
- 7) Window replacements can be any of the following approved styles: sliding plate glass, plate glass with louvered sections, as they are now.
- 8) Windows may be tinted but they cannot have a reflective, mirrored coating
- 9) Windows may be insulated (industry term - Low E), which assist with noise and interior heat reduction)

HARBOR LIGHTS

*Use Hilti S/S drive nail anchor to secure window. For header, fasten every 12". For side jambs, fasten 8" from corner and one in the middle. From bottom sill, do not fasten. NOTE: Bottom sill of window need to have a full shim and be level.

*Block frame
(Side shim under S/S fasteners.)



**Vinyl mull cap piece provided by manufacturer and installed by contractor.

WALL MEASURES APPROXIMATELY 282 INCHES

NOTE: This drawing shows approximate sizes only.
Installer to field measure and determine size
before ordering.

250-N Waiehu Beach Road * Wailuku, Hawaii 96793 * Phone 244-7988 * Fax 244-1479

Quote #: 150347

MATERIAL QUOTATION

Page 1

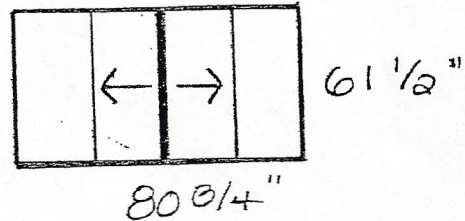
TO: (CASH) CASH CUSTOMER
ATTN: WILLYJOB NAME: HARBOR LIGHTS D226
JOB NUMBER:

TERMS	EST. DELIVERY	F.O.B.	EXPIRES	SALESMAN
	/ /		/ /	CS CORINNE SCHULTZ

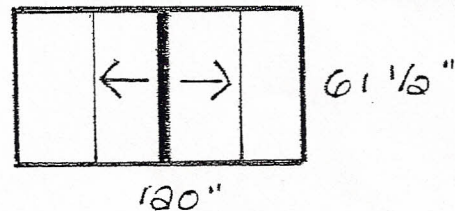
GRP	ITEM	DESCRIPTION	UNITS	QUAN	PRICE	TOTAL
		JOB: HARBOR LIGHTS D226				

ALPINE-SERIES 80, ALMOND VINYL FRAME
~~SG CLEAR GLASS~~ BLOCK FRAME W/SCREENS
NOTE: NET SIZES GIVEN (XO)

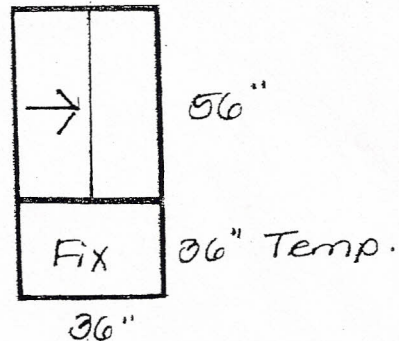
AL NON-STOCK 80 3/4" X 61 1/2" EACH 2 385.9000 771.80



AL NON-STOCK 120" X 61 1/2" EACH 1 429.4400 429.44



AL NON-STOCK 36" X 92" XO OVER FIX EACH 1 266.4500 266.45

SHIP VIA: MATSON (CONSOLIDATE)
MARK SHIPMENT: MIYAKE CONCRETE
JOB: HARBOR/D226 PO# W

* End of line entries *

2 Bedroom Clear, single pane glass

250-N Waiehu Beach Road * Wailuku, Hawaii 96793 * Phone 244-7988 * Fax 244-1479

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MATERIAL QUOTATION

Page 1

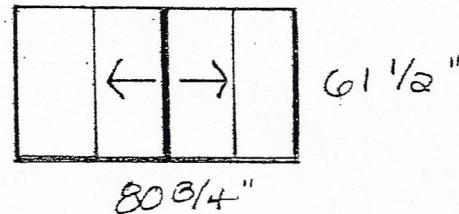
TO: (CASH) CASH CUSTOMER
ATTN: WILLYJOB NAME: HARBOR LIGHTS D226
JOB NUMBER:

TERMS	EST. DELIVERY	F.O.B.	EXPIRES	SALESMAN
	/ /		/ /	CS CORINNE SCHULTZ

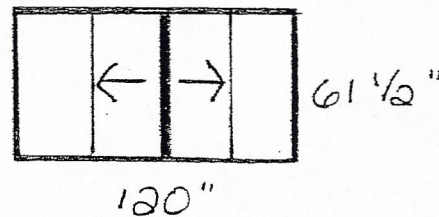
GRP	ITEM	DESCRIPTION	UNITS	QUAN	PRICE	TOTAL
	JOB:	HARBOR LIGHTS D226				

ALPINE-SERIES 80, ALMOND VINYL FRAME
 DG CLEAR GLASS W/LOW E, BLOCK FRAME W/SCREENS
 NOTE: NET SIZES GIVEN (XO)

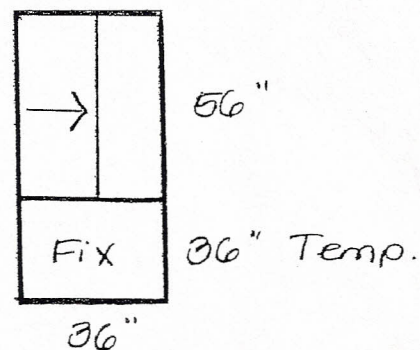
AL	NON-STOCK	80 3/4" X 61 1/2"	EACH	2	501.7800	1003.56
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AL	NON-STOCK	120" X 61 1/2"	EACH	1	559.4400	559.44
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AL	NON-STOCK	36" X 92" XO OVER FIX	EACH	1	314.7000	314.70
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SHIP VIA: MATSON (CONSOLIDATE)
 MARK SHIPMENT: MIYAKE CONCRETE
 JOB: HARBOR/D226 PO# W

* End of line entries *

2 bed LOW E double pane

250-N Waiehu Beach Road * Wailuku, Hawaii 96793 * Phone 244-7988 * Fax 244-1479

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MATERIAL QUOTATION

Page 2

TO: (CASH) CASH CUSTOMER
ATTN: WILLYJOB NAME: HARBOR LIGHTS D226
JOB NUMBER:

TERMS	EST. DELIVERY	F.O.B.	EXPIRES	SALESMAN
	/ /		/ /	CS CORINNE SCHULTZ

CONDITIONS

1. The prices and terms on this quotation are NOT SUBJECT TO VERBAL CHANGES.
2. All deliveries are subject to easy access.
3. Typographical errors or extension errors are subject to corrections.
4. Any interpretation of specifications and plans by Miyake Concrete is only our opinion.
5. Protection of material from rain, sun and wind is contractor's sole responsibility.
6. All returns are subject to a 25% restocking charge. No returns on Special Orders.
7. This order MAY NOT BE CANCELLED unless agreed to in writing by Miyake Concrete Accessories, Inc.
8. Miyake Concrete will not be responsible for delays caused by strikes, labor disputes, shortages or acts of God, etc.
9. Delinquent accounts are subject to 1.5% service charge per month and all costs of collection including attorney's fees.
10. Manufacturer's net price increases and freight increases are not protected and will be added to the quoted price after expiration date.
11. Cash customers must put down a 50% Deposit and pay balance on delivery.
12. I agree to the payment terms set forth by Miyake Concrete Accessories
13. I agree to all of the above conditions.

SUBTOTAL: 1467.69
4.166% TAX: 61.14
FREIGHT: .00
TOTAL: 1528.83

Submitted by _____ Date _____

Accepted by _____ PO# _____ Date _____

7/1/2001 10:01 AM

HAWAII

Lifetime Limited Warranty

Alside Window Company Northwest is pleased to guarantee and warrant its vinyl window and doors in Hawaii for as long as the original owner owns the home. This guarantee covers defects in materials and/or workmanship in vinyl material products manufactured by Alside. If a defect should occur, Alside will, at its sole discretion, repair or replace the product, or refund the original purchase price. This warranty is subject to the following terms and conditions:

1. This lifetime guarantee may not be assigned or transferred and terminates upon the sale of the home. Proof of ownership will be required.
2. Alside is not liable for glass breakage, the use of films or tints, failure due to misuse or bad installation, any alterations to the window or door including customer-applied paint finishes, or acts of nature including fire, flood, or earthquake. Alside is not liable for natural weathering of exterior finishes or for corrosion of the hardware in highly corrosive environments. Alside is not liable for incidental or consequential damage. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you.
3. To obtain service under this guarantee, contact the Alside Window Company Northwest Service office at 1-877-495-4843.

This guarantee applies only to those Alside windows and doors produced for the state of Hawaii that were purchased on or after January 1, 2001.

ALPINETM
WINDOWS

MANUFACTURED BY ALSIDE WINDOW CO. NW

250-N Waiehu Beach Road * Wailuku, Hawaii 96793 * Phone 244-7988 * Fax 244-1479

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TERMS	EST. DELIVERY F.O.B.	EXPIRES	SALESMAN
	/ /	/ /	CS CORINNE SCHULTZ

CONDITIONS

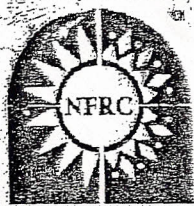
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4. Any interpretation of specifications and plans by Miyake Concrete is only our opinion.
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11. Cash customers must put down a 50% Deposit and pay balance on delivery.
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13. I agree to all of the above conditions.

SUBTOTAL:	1877.70
4.166% TAX:	78.22
FREIGHT:	.00
TOTAL:	1955.92

Submitted by _____ Date _____

Accepted by _____ PO# _____ Date _____

7 bedrooms 10x11 ft. double doors



National Fenestration
Rating Council

CERTIFIED

Alside

Window NW

280 HS

CFPM-010-000

Vinyl

Clr - Clr

ENERGY Performance

Energy savings will depend on your specific climate, house and lifestyle.
For more information, call 1-425-481-7101 or visit NFRC's web site at
www.nfrc.org

Technical Information

	U-Factor	.50	Solar Heat Gain Coefficient	.59	Visible Light Transmittance	.61
Res						
Non Res		.50		.57		.63

Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product energy performance. NFRC ratings are determined for a fixed set of environmental conditions and specific product sizes.

PPG Residential 3/4" Insulating Glass Unit Performance Using 1/8" (3mm) Glass^{1*}

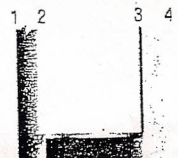
3/4" (19mm) units with 1/2" (13mm) airspace and two 1/8" (3mm) lites; interior lite clear¹

Glass Type	Transmittance ²			Reflectance ²		U-Value ² /K-Value Air Fill		U-Value ² /K-Value Argon Gas Fill		Shading Coefficient ^{1,4}	Solar Heat Gain Coefficient ⁴
	Ultra- violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night- time	Summer Day- time	Winter Night- time	Summer Day- time		
Uncoated											
Clear Glass	58	81	69	16	13	0.49/2.78	0.55/3.13	0.46/2.63	0.52/2.93	0.87	0.75
SOLEX [®] Tinted Glass	36	75	51	14	9	0.49/2.78	0.57/3.19	0.46/2.63	0.54/3.07	0.69	0.59
SOLARGREEN [®] Tinted Glass	24	69	42	13	8	0.49/2.78	0.57/3.25	0.46/2.63	0.54/3.07	0.59	0.50
AZURLITE [®] Tinted Glass	44	69	39	12	8	0.49/2.79	0.57/3.25	0.46/2.63	0.55/3.11	0.55	0.48
SOLARBONZE [®] Tinted Glass	33	61	54	11	10	0.49/2.78	0.56/3.19	0.46/2.63	0.54/3.07	0.72	0.62
SOLARGRAY [®] Tinted Glass	31	54	49	10	9	0.49/2.78	0.57/3.25	0.46/2.63	0.54/3.07	0.66	0.57
GRAYLITE [®] Tinted Glass	15	27	36	6	7	0.49/2.78	0.58/3.31	0.46/2.63	0.55/3.13	0.53	0.46
Coated											
SOLARBAN [®] 55 Low-E Coated Glass (Formerly SUNGATE [®] 1000)											
SOLARBAN 55 (2) Clear	32	44	32	11	9	0.34/1.93	0.37/2.12	0.29/1.65	0.32/1.82	0.45	0.39
SOLARBAN 55 (3) SOLEX	20	40	24	14	11	0.34/1.93	0.39/2.21	0.29/1.65	0.33/1.88	0.58	0.50
SOLARBAN 55 (3) SOLARGREEN	13	37	19	13	9	0.34/1.93	0.39/2.20	0.29/1.65	0.33/1.87	0.48	0.42
SOLARBAN 55 (3) AZURLITE	25	37	19	13	9	0.34/1.93	0.39/2.20	0.29/1.65	0.33/1.87	0.45	0.39
SOLARBAN 55 (3) Bronze	18	32	24	11	12	0.34/1.93	0.39/2.22	0.29/1.65	0.33/1.89	0.60	0.52
SOLARBAN 55 (3) Gray	18	29	22	10	11	0.34/1.93	0.39/2.21	0.29/1.65	0.33/1.88	0.55	0.48
SOLARBAN 55 (3) GRAYLITE	8	15	15	6	8	0.34/1.93	0.39/2.21	0.29/1.65	0.33/1.88	0.43	0.37
SOLARBAN [®] 60 Low-E Coated Glass (Formerly SUNGATE [®] 1000)											
SOLARBAN 60 (2) Clear	46	71	35	12	33	0.30/1.69	0.30/1.68	0.24/1.37	0.23/1.31	0.55	0.39
SOLARBAN 60 (3) SOLEX	11	65	29	12	18	0.30/1.69	0.31/1.74	0.24/1.37	0.24/1.35	0.47	0.40
SOLARBAN 60 (3) SOLARGREEN	7	60	25	11	12	0.30/1.69	0.31/1.75	0.24/1.37	0.24/1.38	0.42	0.36
SOLARBAN 60 (3) AZURLITE	13	60	25	11	10	0.30/1.69	0.31/1.75	0.24/1.37	0.24/1.39	0.42	0.36
SOLARBAN 60 (3) Bronze	10	53	26	9	25	0.30/1.69	0.30/1.73	0.24/1.37	0.24/1.35	0.44	0.38
SOLARBAN 60 (3) Gray	9	47	24	9	21	0.30/1.69	0.31/1.74	0.24/1.37	0.24/1.36	0.41	0.35
SOLARBAN 60 (3) GRAYLITE	5	24	15	6	17	0.30/1.69	0.31/1.76	0.24/1.37	0.25/1.40	0.29	0.25
SUNGATE [®] 100 Low-E Coated Glass											
SUNGATE 100 (2) Clear	39	75	48	12	24	0.32/1.81	0.32/1.81	0.26/1.50	0.26/1.50	0.62	0.54
SUNGATE 100 (3) Clear	39	75	48	12	25	0.32/1.81	0.33/1.88	0.26/1.50	0.27/1.54	0.70	0.60
SUNGATE 100 (3) SOLEX	26	69	38	11	14	0.32/1.81	0.33/1.88	0.26/1.50	0.27/1.54	0.56	0.48
SUNGATE 100 (3) SOLARGREEN	17	63	31	10	10	0.32/1.81	0.33/1.88	0.26/1.50	0.27/1.54	0.48	0.41
SUNGATE 100 (3) AZURLITE	31	64	30	10	9	0.32/1.81	0.33/1.88	0.26/1.50	0.28/1.59	0.46	0.40
SUNGATE 100 (3) Bronze	23	56	37	9	18	0.32/1.81	0.33/1.88	0.26/1.50	0.27/1.54	0.56	0.48
SUNGATE 100 (3) Gray	22	50	34	8	16	0.32/1.81	0.33/1.88	0.26/1.50	0.27/1.54	0.51	0.44
SUNGATE 100 (3) GRAYLITE	10	25	23	5	13	0.32/1.81	0.33/1.88	0.26/1.50	0.28/1.59	0.38	0.33
SUNGATE [®] 500 Low-E Coated Glass											
SUNGATE 500 (2) Clear	48	76	59	17	15	0.35/1.99	0.38/2.15	0.31/1.74	0.33/1.88	0.76	0.65
SUNGATE 500 (3) Clear	48	76	59	18	17	0.35/1.99	0.38/2.15	0.31/1.74	0.33/1.88	0.81	0.70
SUNGATE 500 (3) SOLEX	30	70	43	16	12	0.35/1.99	0.39/2.21	0.31/1.74	0.34/1.93	0.62	0.53
SUNGATE 500 (3) SOLARGREEN	20	64	35	14	10	0.35/1.99	0.39/2.21	0.31/1.74	0.34/1.93	0.52	0.45
SUNGATE 500 (3) AZURLITE	37	64	33	14	9	0.35/1.99	0.39/2.21	0.31/1.74	0.34/1.93	0.49	0.42
SUNGATE 500 (3) Bronze	27	56	45	12	12	0.35/1.99	0.39/2.21	0.31/1.74	0.34/1.93	0.65	0.56
SUNGATE 500 (3) Gray	26	51	41	10	11	0.35/1.99	0.39/2.21	0.31/1.74	0.34/1.93	0.60	0.51
SUNGATE 500 (3) GRAYLITE	12	26	29	6	9	0.35/1.99	0.40/2.25	0.31/1.74	0.35/1.99	0.47	0.40
SUNGATE [®] 300 Low-E Coated Glass											
SUNGATE 300 (2) Clear	53	76	61	17	15	0.38/2.15	0.42/2.39	0.34/1.93	0.38/2.15	0.78	0.67
SUNGATE 300 (3) Clear	53	76	61	18	17	0.39/2.21	0.43/2.45	0.34/1.93	0.38/2.15	0.82	0.70
SUNGATE 300 (3) SOLEX	33	70	45	16	12	0.39/2.21	0.43/2.45	0.34/1.93	0.39/2.21	0.63	0.54
SUNGATE 300 (3) SOLARGREEN	22	64	36	14	10	0.39/2.21	0.44/2.48	0.34/1.93	0.39/2.21	0.53	0.46
SUNGATE 300 (3) AZURLITE	40	64	34	14	9	0.39/2.21	0.44/2.48	0.34/1.93	0.39/2.21	0.50	0.43
SUNGATE 300 (3) Bronze	30	57	47	12	12	0.39/2.21	0.43/2.45	0.34/1.93	0.39/2.21	0.66	0.57
SUNGATE 300 (3) Gray	29	51	42	11	11	0.39/2.21	0.44/2.48	0.34/1.93	0.39/2.21	0.61	0.52
SUNGATE 300 (3) GRAYLITE	13	26	30	6	8	0.39/2.21	0.44/2.48	0.34/1.93	0.40/2.25	0.48	0.41

* Performance data is based on representative samples of factory production. Actual values may vary slightly due to variations in the production process. Other glass manufacturers and coaters may use different instruments and measurement techniques. Therefore, reported performance values may vary on identical products by others.

Comparison of regular glass to Low E (double pane)

Glass Surface Numerical Reference



Glass Technology