



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.buildingcodeonline.com](http://www.buildingcodeonline.com)

**KD Windows, Inc.**  
**3705 Shares Place**  
**Riviera Beach, FL 33404**

### 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 Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: KDI Bay Window Clipped Aluminum Tube Mullion – L.M.I.

**APPROVAL DOCUMENT:** Drawing No.1064, titled "Bay Window Aluminum Impact and Non-Impact Mullion", sheets 1 and 2 of 2, dated 06/22/01 with revision A1 dated 01/09/07, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

### 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 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 **revises and renews** NOA # **01-0828.03** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 06-1017.02  
Expiration Date: October 11, 2011  
Approval Date: February 8, 2007  
Page 1

**KD Windows, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **1064**, Sheets 1 and 2 of 2, titled "Bay Window Aluminum Impact and Non-Impact Mullion", dated 06/22/01 with revision A1 dated 01/09/07, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS**

1. Test reports on
  - 1) Uniform Load Static Air Pressure Test, per SFBC, PA 202-94
  - 2) Large Missile Impact Test, SFBC PA 201-94
  - 3) Cyclic Loading Test, per SFBC PA 203-94along with installation diagram of a pair of fixed alum. windows (OO configuration) 50" x 98" mullied together with an aluminum mullion, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-01005**, dated 01/16/01, signed and sealed by Vinu J. Abraham, P.E. (*Submitted under previous NOA #01-0828.03*)

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, complying with FBC-2004, prepared by W.W. Schaefer Engineering & Consulting, dated 01/08/07, signed and sealed by Warren W. Schaeffer, P.E.
2. Engineering Structural & Anchor Calculations, prepared by W.W. Schaefer Engineering & Consulting, dated 06/25/01, signed and sealed by Warren W. Schaeffer, P.E. (*Submitted under previous NOA #01-0828.03*)

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

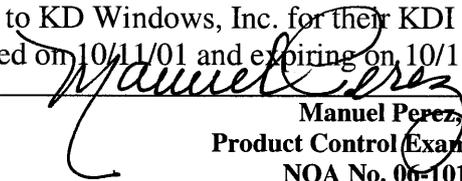
1. None.

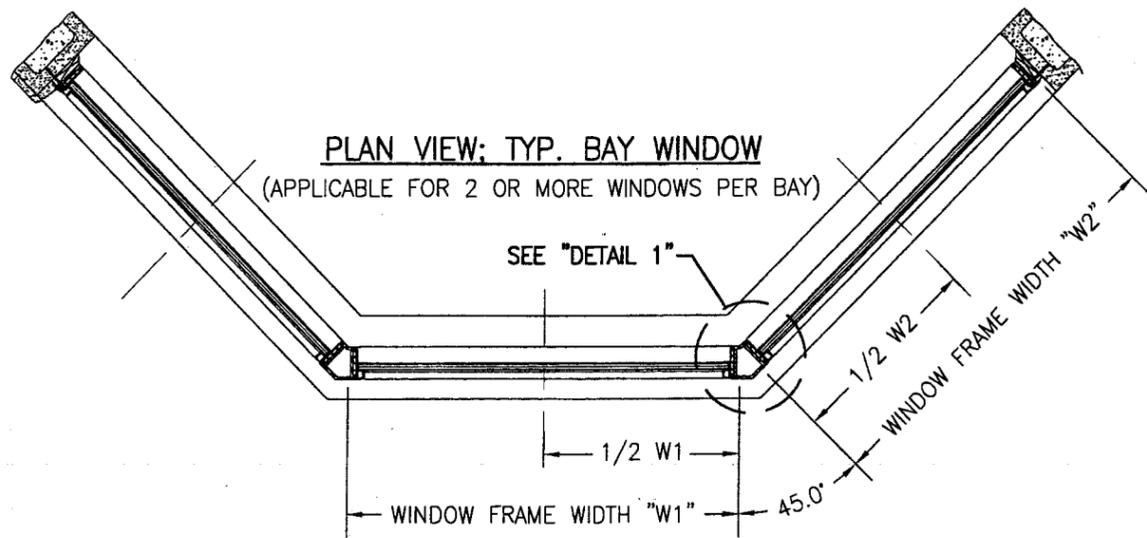
**F. STATEMENTS**

1. Statement letter of conformance, dated January 8, 2007, signed and sealed by Warren W. Schaeffer P.E.
2. Statement letter of no financial interest, dated June 25, 2001, signed and sealed by Warren W. Schaeffer P.E.
3. Laboratory compliance letter for Test Reports No. HTL-01057, issued by Hurricane Test Laboratory, Inc., dated August 15, 2001, signed and sealed by Vinu J. Abraham, P.E.
4. Statement letter from manufacturer confirming that the product has not changed, dated January 9, 2007, signed and sealed by Vincent Conway, General Manager.

**G. OTHER**

1. Notice of Acceptance No. **01-0828.03**, issued to KD Windows, Inc. for their KDI Bay Window Aluminum Clipped Mullion, approved on 10/11/01 and expiring on 10/11/06.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 06-1017.02  
Expiration Date: October 11, 2011  
Approval Date: February 8, 2007

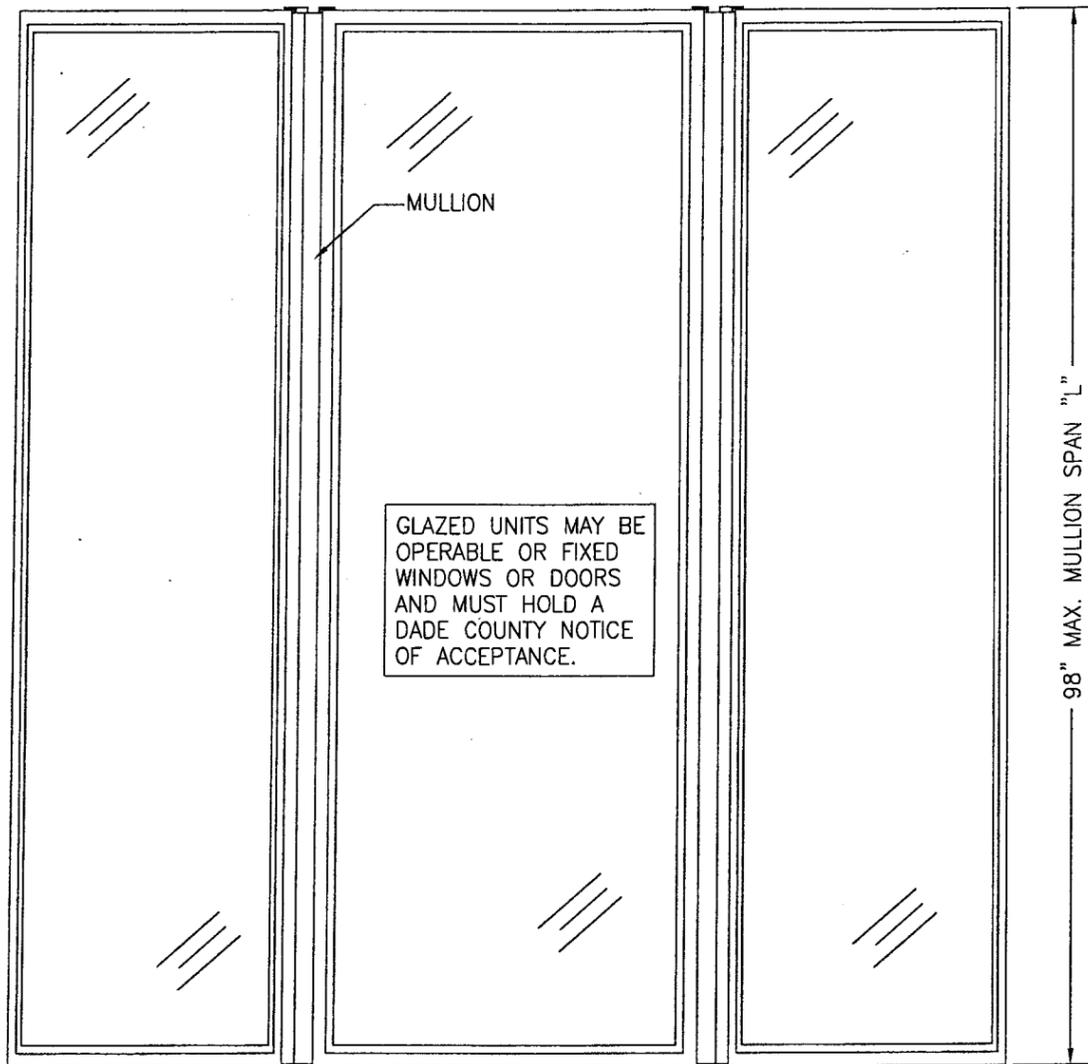


**PLAN VIEW; TYP. BAY WINDOW**

(APPLICABLE FOR 2 OR MORE WINDOWS PER BAY)

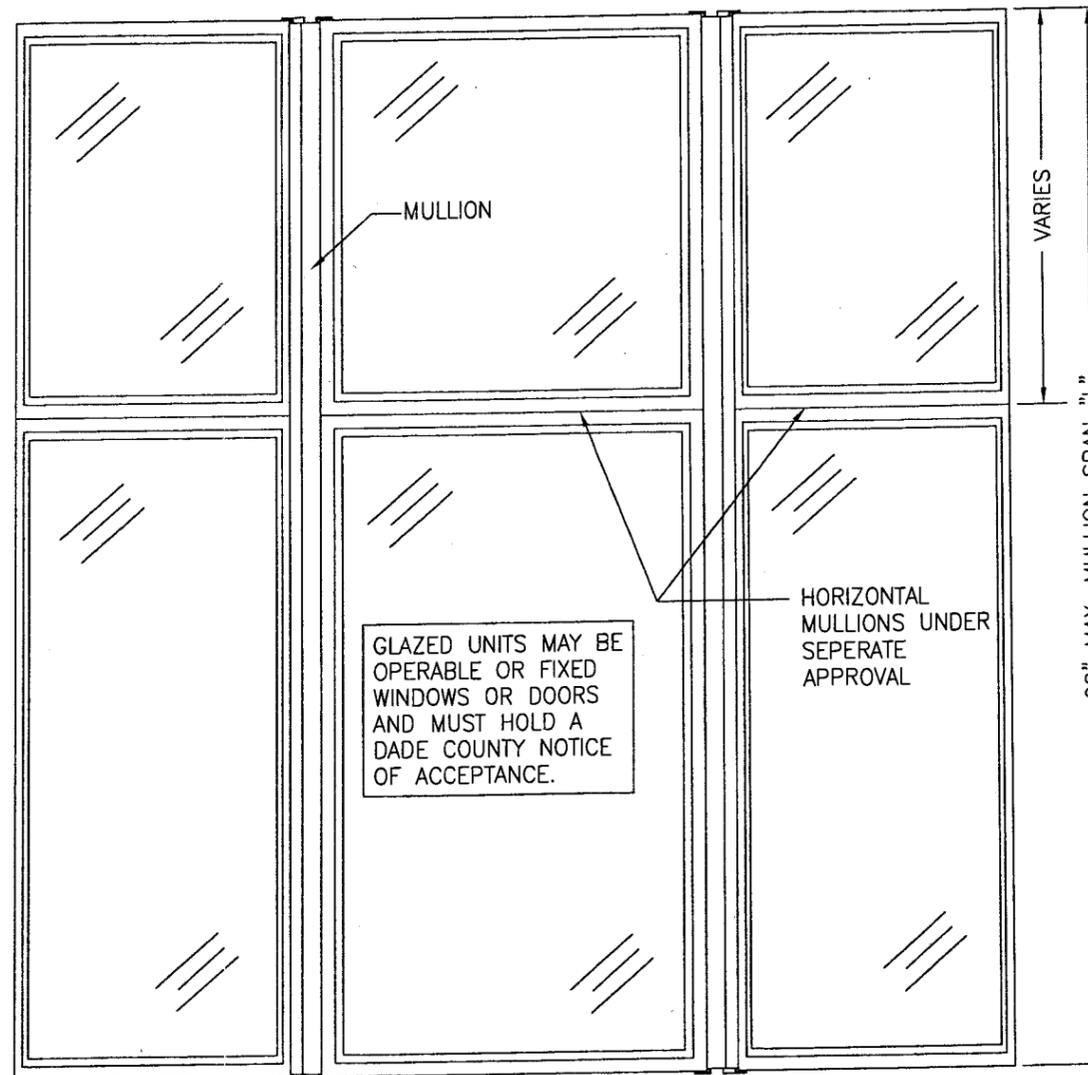
**GENERAL NOTES:**

1. ALL PRODUCTS TO BE MULLED TOGETHER MUST HOLD A DADE COUNTY NOTICE OF ACCEPTANCE AND MUST MEET THE REQUIRED DESIGN WIND PRESSURES FOR EACH APPLICABLE PROJECT.
2. THE LESSER OF THE MULLION ALLOWABLE PRESSURES AND THE WINDOW/DOOR PRODUCT ALLOWABLE PRESSURES SHALL CONTROL AS THE FINAL ALLOWABLE PRESSURE ON THE MULLED UNITS.
3. CONNECTION OF WINDOW/DOOR JAMBS TO THE MULLION SHALL BE WITH SELF TAPPING/DRILLING SCREWS EQUAL IN SIZE AND SPACING TO THE FRAME FASTENERS SPECIFIED IN THE INDIVIDUAL WINDOW/DOOR NOTICE OF ACCEPTANCE.
4. WINDOWS MAY BE FULL HEIGHT OR STACKED VERTICALLY WITH NO LIMITATION ON QUANTITY (ONLY LIMITATION IS THE OVERALL HEIGHT OF THE MULLION PER THE ELEVATIONS)
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
7. ALL FRAME ANCHORS SECURING WINDOW/DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BUILDING CODE SECTION 2003.8.4.



**ELEVATION; SINGLE VERTICAL UNITS**

(SEE PLAN VIEW FOR WIDTH REQUIREMENTS)

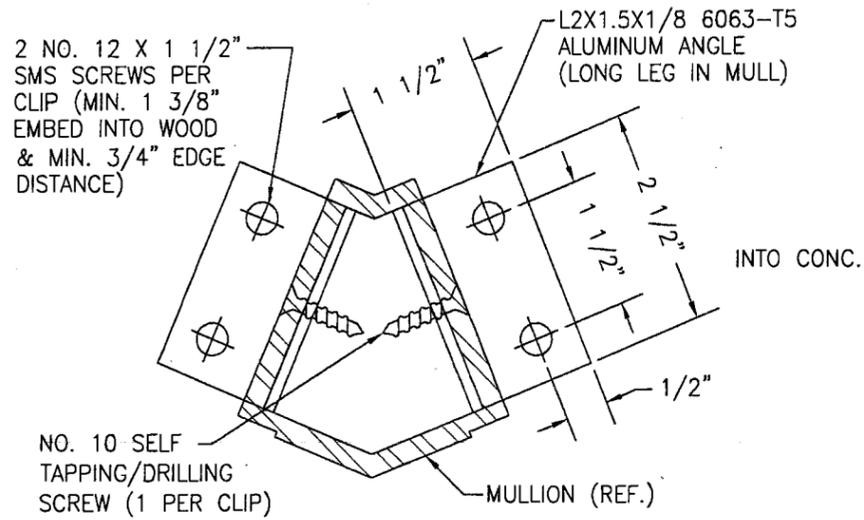


**ELEVATION; VERTICAL STACKED UNITS**

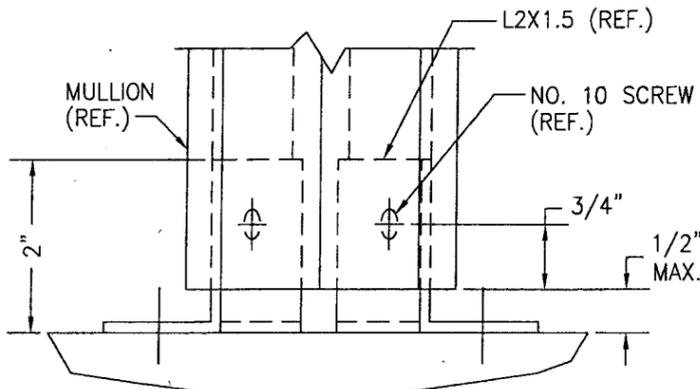
(SEE PLAN VIEW FOR WIDTH REQUIREMENTS)  
MAY BE MORE THAN 2 UNITS STACKED VERTICALLY

PRODUCT REVISED  
to comply with the Florida  
Building Code  
Acceptance No. 06-1017.02  
Expiration Date OCT. 11, 2011  
*Warren W. Schaefer*  
Missal Dade Product Control  
Division

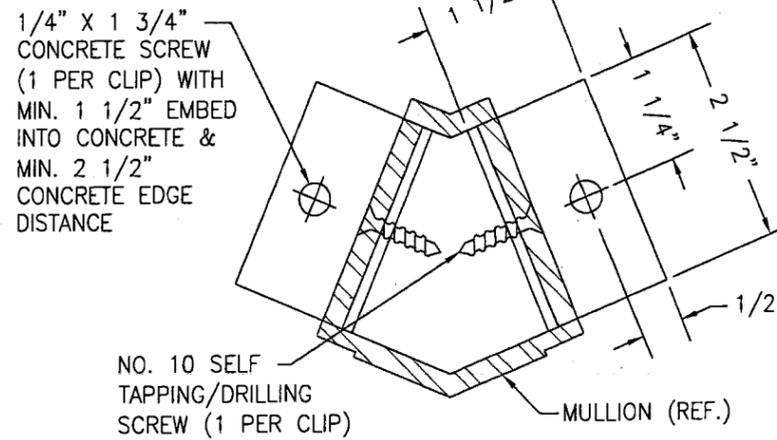
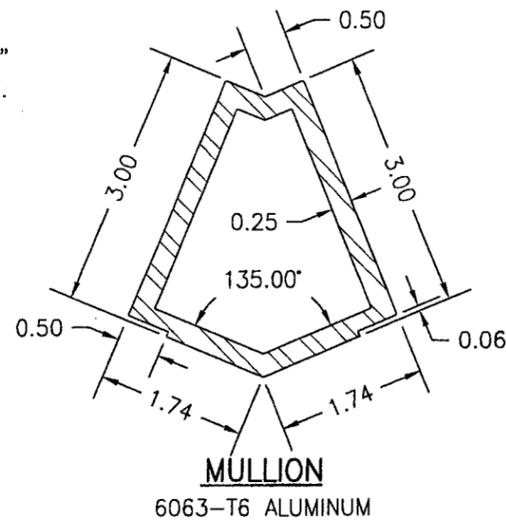
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 06/22/01	
DATE	BY	REVISION DESCRIPTION	NO.
01/08/07	WWS	UPDATE TO 2004 FBC	A1
DRAWING TITLE: <b>BAY WINDOW ALUMINUM IMPACT &amp; NON-IMPACT MULLION</b>			
CONSULTANTS: <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER: <b>K.D. WINDOWS, INC.</b> 3705 SHARES PLACE RIVIERA BEACH, FLORIDA 33404 (561)845-1401	
CERTIFICATION JAN 09 2007 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO.	REV.	SHEET NO.	
1064	A	1 OF 2	



**MULLION CONNECTION TO WOOD**  
(TO MIN. 2X4 SOUTHERN PINE; G = 0.55)



**TYP. MULLION VIEW**



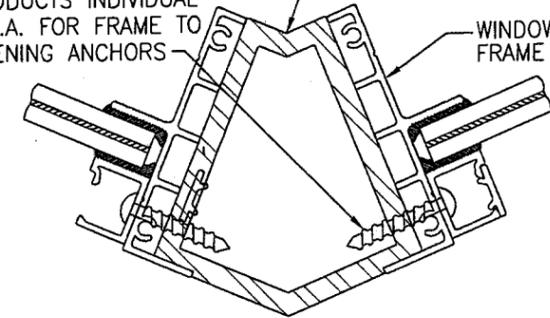
**MULLION CONNECTION TO CONCRETE**  
(MIN 2500 PSI CONCRETE)

CONCRETE SCREWS MAY BE RAMSET REDHEAD OR ELCO TAPCONS OR HILTI KWIK-CON II'S)

FRAME FASTENER. SCREW SIZE & SPACING TO MATCH THAT REQUIRED BY THE PRODUCTS INDIVIDUAL N.O.A. FOR FRAME TO OPENING ANCHORS

BAY WINDOW MULLION (SEE DETAIL)

WINDOW/DOOR FRAME



**DETAIL 1**  
(TYP. WINDOW/DOOR TO MULLION DETAIL)

**LOAD TABLE INSTRUCTIONS:**

1. DETERMINE THE REQUIRED DESIGN WIND LOAD PER ASCE 7.
2. DETERMINE THE MULLION SPAN "L".
3. DETERMINE THE WINDOW FRAME WIDTHS "W1" & "W2" TO BE MULLED TOGETHER.
4. ADD THE TWO WINDOW WIDTHS TOGETHER AND DIVIDE BY 2 [(W1 + W2)/2] TO OBTAIN THE EFFECTIVE LOAD WIDTH OF THE MULLION.
5. ENTER THE LOAD TABLE WITH THE MULLION SPAN & LOAD WIDTH AND FIND THE ALLOWABLE WIND PRESSURE FOR THE MULLION.
6. CHECK TO INSURE THAT THE ALLOWABLE WIND PRESSURE FOR THE MULLION IS EQUAL TO OR GREATER THAN THE REQUIRED DESIGN PRESSURE.
7. CHECK TO INSURE THAT THE DESIGN PRESSURE RATING IN THE WINDOW APPROVAL ALSO MEETS OR EXCEEDS THE REQUIRED PRESSURE.

**TABLE 2.0**  
**IMPACT RATED MULLION**

$W = \frac{W1+W2}{2}$

LOAD WIDTH "W"	DESIGN LOAD CAPACITY (PSF) (POSITIVE & NEGATIVE LOADS)											
	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	98"
18"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	93.7
24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.7	74.7	70.2
30"	100.0	100.0	100.0	100.0	100.0	100.0	93.3	86.2	80.0	72.6	59.8	56.2
36"	100.0	100.0	100.0	100.0	93.3	84.8	77.8	71.8	66.7	60.5	49.8	46.8
42"	100.0	100.0	100.0	88.9	80.0	72.7	66.7	61.5	57.1	51.8	42.7	40.1
48"	100.0	100.0	87.5	77.8	70.0	63.6	58.3	53.8	50.0	45.3	37.4	35.1
54"	100.0	88.9	77.8	69.1	62.2	56.6	51.9	47.9	44.4	40.3	33.2	31.2
60"	93.3	80.0	70.0	62.2	56.0	50.9	46.7	43.1	40.0	36.3	29.9	28.1
66"	84.8	72.7	63.6	56.6	50.9	46.3	42.4	39.2	36.4	33.0	27.2	25.5
72"	77.8	66.7	58.3	51.9	46.7	42.4	38.9	35.9	33.3	30.2	24.9	23.4
MULLION SPAN "L"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	98"

PRODUCT REVISED  
to comply with the Florida  
Building Code  
Acceptance No. 06-1017-02  
Expiration Date OCT. 11, 2011

By *Warren W. Schaeffer*  
Minimal Code Product Control  
Division

NOTE: THIS LOAD TABLE IS ACCEPTABLE FOR MULLION END CONNECTION TO SOUTHERN PINE (G=0.55) WOOD OR TO MIN. 2500 PSI CONCRETE.

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.	PLOT: 1=2	DATE: 06/22/01
DATE	BY	REVISION DESCRIPTION	NO.
<b>BAY WINDOW ALUMINUM IMPACT MULLION</b> MANUFACTURER: <b>K.D. WINDOWS, INC.</b> 3705 SHARES PLACE RIVIERA BEACH, FLORIDA 33404 (561)845-1401 CONSULTANTS: <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
<b>CERTIFICATION</b> JAN 09 2007 WARREN W. SCHAEFER, P.E. P.E. NO. 44133		DRAWING NO. <b>1064</b> REV. <b>A</b> SHEET NO. <b>2</b> OF <b>2</b>	