Sunshine Windows Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, FL 33012

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 Florida Building Code, including the High Velocity Hurricane Zone.


APPROVAL DOCUMENT: Drawing No. SGD18, titled “Series 2009 Aluminum Sliding Glass Door Impact Resistant Glass”, sheets 1 through 16 of 16, dated 10/10/18, with revision #1 dated 10/10/18, prepared by manufacturer, signed and sealed by Francisco Hernandez, 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 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, series, 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 NOA No. 17-1025.06 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Sifang Zhao, P.E.

NOA No. 18-1025.05
Expiration Date: October 06, 2020
Approval Date: February 28, 2019
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA’s

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No.10-0105.02)
2. Drawing No. SGD09, titled “Series 2009 Aluminum Sliding Glass Door Impact Resistant Glass”, sheets 1 through 14 of 14, dated 12/17/09, with revision #2 dated 10/21/14, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E.

B. TESTS

1. Test reports on:
   1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, Type “C” sliding door, Grade 10, Level LV 1 per ASTM F 842 and per FBC 2411 3.2.1, TAS 202-94

   along with marked-up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-5856, dated 11/04/09, signed and sealed by Julio E. Gonzalez, P.E.
   (Submitted under NOA No.10-0105.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 5th Edition (2014), dated 10/21/14, prepared, signed and sealed by Francisco Hernandez, P.E.

2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. for their “SentryGlas® (Clear and White) Glass Interlayers” dated 06/25/15, expiring on 07/04/18.


Sifang Zhao, P.E.
Product Control Plan Examiner
NOA No. 18-1025.05
Expiration Date: October 06, 2020
Approval Date: February 28, 2019
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS
2. Laboratory compliance letter for the Test Report No. FTL-5856, dated 11/10/09, signed and sealed by Julio E. Gonzalez, P.E.  
   (Submitted under NOA No. 10-0105.02)

G. OTHERS

NEW EVIDENCE SUBMITTED

A. DRAWINGS
1. Drawing No. SGD18, titled “Series 2009 Aluminum Sliding Glass Door Impact Resistant Glass”, sheets 1 through 16 of 16, dated 10/10/18, with revision #1 dated 10/10/18, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E.

B. TESTS
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, Type “C” sliding door, Grade 10, Level LV 1 per ASTM F 842 and per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-9693, dated 07/19/2018, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS
1. None.

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. 17-1114.14 issued to Kuraray America, Inc. for their “Trosifol® UltraClear, Clear and Color PVB Glass Interlayers” dated 01/18/18, expiring on 07/04/19.

Sifang Zhao, P.E.
Product Control Plan Examiner
NOA No. 18-1025.05
Expiration Date: October 06, 2020
Approval Date: February 28, 2019
Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS
1. Statement letter of conformance, complying with FBC 6th Edition (2017) and no financial interest, dated 01/18/2019, issued, signed and sealed by Francisco Hernandez, P.E.

G. OTHERS

Sifang Zhao, P.E.
Product Control Plan Examiner
NOA No. 18-1025.05
Expiration Date: October 06, 2020
Approval Date: February 28, 2019
GENERAL NOTES:
2. SHUTTERS ARE NOT REQUIRED.
4. FOR ANCHOR SPACING FOR GLASS TYPE A REFER TO TYPICAL ELEVATIONS ON SHEET 3 OF 16.
5. FOR ANCHOR CLUSTERS FOR GLASS TYPE A REFER TO DETAILS ON SHEET 12 OF 16.
6. FOR ANCHOR SPACING FOR GLASS TYPE B REFER TO TYPICAL ELEVATIONS ON SHEET 4 OF 16.
7. FOR ANCHOR CLUSTERS FOR GLASS TYPE B REFER TO DETAILS ON SHEET 12 OF 16.
8. FOR DESCRIPTION OF ANCHORS NOT INCLUDED IN CLUSTERS REFER TO SECTIONS ON SHEETS 14 THRU 16.
9. WOOD BUCKS NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL BE PROPERLY ANCHORED AND SEALED TO SUSTAIN AND TRANSFER THE LOADS IMPOSED BY THE GLAZING SYSTEM TO THE STRUCTURE AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
10. WOOD HOST STRUCTURE SHALL BE SOUTHERN YELLOW PINE G 0.55 OF GREATER DENSITY.
11. CONCRETE / MASONRY STRUCTURE FOR UNIT ATTACHMENT SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
   - CONCRETE STRENGTH Fc=28 = 3000 PSI MIN.
   - CDA AS PER ASTM C90. CDA MUST BE 6-INCH THICK, NORMAL WEIGHT BLOCKS WITH A MINIMUM COMPRESSIVE STRENGTH OF 1.9 KSI.
   - FILLED CDA Fh = 2000 PSI MIN.
12. ALUMINUM HOST STRUCTURE NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL, THE THICKNESS OF THE ALUMINUM HOST STRUCTURE SHALL NOT BE LESS THAN 1/8". ALUMINUM SHALL BE 6063-T5 AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
13. ALUMINUM IN CONTACT WITH DESICCANT MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN FBC 6TH EDITION (2017).
14. STEEL HOST STRUCTURE NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL NOT BE LESS THAN 1/8" THICK. STEEL SHALL BE FY = 36 KSI MIN. STEEL STRUCTURE SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
15. COLONIAL MUNITIONS CAN BE APPLIED.
16. USE NON-SHRINK, NON-METALLIC HYDRAULIC CEMENT GROUT PER ASTM C1107/C1107M STANDARD SPECIFICATION FOR PACKAGED DRY.
17. GLASS TYPE A: 3/16" NON-METAL LAMINATED GLASS COMPOSED OF (2) 3/16" HEAT STRENGTHENED GLASS WITH 0.050" SEDIMENTARY INTERLAYING FILM BY KURAYAMA AMERICA, INC. (SEE GLAZING DETAIL FOR GLASS TYPE A).
18. GLASS TYPE B: 5/16" NON-METAL LAMINATED GLASS COMPOSED OF (2) 5/16" HEAT STRENGTHENED GLASS WITH 0.050" TROISFOIL PVB INTERLAYING FILM BY KURAYAMA AMERICA, INC. (SEE GLAZING DETAIL FOR GLASS TYPE B).
19. GLASS SHALL PENETRATE 0.004" INTO THE ALUMINUM FRAME POCKET AND WILL BE SECURED WITH DOW 889 SILICONE SEALANT ON THE INTERIOR AND VINYL BULB 3025 ON THE EXTERIOR.
20. DOORS REQUIREING FULL USER PASSAGE SHALL COMPLY WITH EXPRESS REQUIREMENTS OF FBC 6TH EDITION (2017).

INDEX OF DRAWINGS:
01 OF 16. -- GENERAL NOTES, INDEX OF DRAWINGS, TYPICAL ELEVATION AND GLAZING DETAILS.
02 OF 16. -- DESIGN PRESSURES CHART.
03 OF 16. -- ELEVATIONS FOR APPROVED CONFIGURATIONS WITH GLASS TYPE A.
04 OF 16. -- ELEVATIONS FOR APPROVED CONFIGURATIONS WITH GLASS TYPE B.
05 OF 16. -- HORIZONTAL SECTIONS (OXX) CONFIGURATION FOR GLASS TYPE A AND TYPE B.
06 OF 16. -- HORIZONTAL SECTIONS (OXX) CONFIGURATION FOR GLASS TYPE A AND TYPE B.
07 OF 16. -- HORIZONTAL SECTIONS (XX) CONFIGURATION FOR GLASS TYPE A AND TYPE B.
08 OF 16. -- HORIZONTAL SECTIONS (XX) CONFIGURATION FOR GLASS TYPE A AND TYPE B.
09 OF 16. -- CLUSTERS FOR GLASS TYPE A ON SHEET 3 OF 16 AND FOR GLASS TYPE B ON SHEET 4 OF 16.
10 OF 16. -- CLUSTERS FOR GLASS TYPE A ON SHEET 3 OF 16 AND FOR GLASS TYPE B ON SHEET 4 OF 16.
11 OF 16. -- CLUSTERS FOR GLASS TYPE B ON SHEET 4 OF 16.
12 OF 16. -- CLUSTERS DETAILS ON SHEET 12 OF 16.
13 OF 16. -- CLUSTERS DETAILS ON SHEET 12 OF 16.
14 OF 16. -- CLUSTERS DETAILS ON SHEET 12 OF 16.
15 OF 16. -- CLUSTERS DETAILS ON SHEET 12 OF 16.
16 OF 16. -- TYPICAL SECTIONS AT SILL.

TYPICAL ELEVATION:
O
X
X
O
41 3/8" MAX 0.004 MIN.
3 1/8" H.S. GLASS.
3/16" H.S. GLASS.
1/8" H.S. GLASS.
0.004 MIN.
0.004 MIN.
GLAZING TAPE
SILICONE DOW CORNING 889
0.004 MIN.
GLAZING TAPE
SILICONE DOW CORNING 889
1/8" X 5/8" X 3" DUR. 80 NEOPRENE SETTING BLOCKS (2 PER SIDE)
1/8" X 5/8" X 3" DUR. 80 NEOPRENE SETTING BLOCKS (2 PER SIDE)

GENERAL NOTES, INDEX OF DRAWINGS AND GLAZING DETAILS.
## DESIGN PRESSURES CHART FOR GLASS TYPE A

<table>
<thead>
<tr>
<th>PANEL DIMENSION IN INCHES</th>
<th>NUMBER OF ANCHORS AT EACH CLUSTER</th>
<th>DESIGN PRESSURES WITH 3 3/4&quot; SILL HEIGHT</th>
<th>DESIGN PRESSURES WITH 5&quot; SILL HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ATTACHMENT TO CONCRETE AND METAL (PSF)</td>
<td>ATTACHMENT TO WOOD (PSF)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EXT. (+) INT. (-)</td>
<td>EXT. (+) INT. (-)</td>
</tr>
<tr>
<td>80</td>
<td>4</td>
<td>93.33 120.71</td>
<td>93.33 116.47</td>
</tr>
<tr>
<td>24</td>
<td>4</td>
<td>93.33 120.71</td>
<td>93.33 116.47</td>
</tr>
<tr>
<td>30</td>
<td>4</td>
<td>93.33 120.71</td>
<td>93.33 116.47</td>
</tr>
<tr>
<td>36</td>
<td>4</td>
<td>88.26 88.26</td>
<td>85.16 85.16</td>
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<tr>
<td>48</td>
<td>4</td>
<td>73.29 73.29</td>
<td>70.71 70.71</td>
</tr>
</tbody>
</table>

## DESIGN PRESSURES CHART FOR GLASS TYPE B

<table>
<thead>
<tr>
<th>PANEL DIMENSION IN INCHES</th>
<th>NUMBER OF ANCHORS AT EACH CLUSTER</th>
<th>DESIGN PRESSURES WITH 3&quot; SILL HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ATTACHMENT TO CONCRETE AND METAL (PSF)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EXT. (+) INT. (-)</td>
</tr>
<tr>
<td>80</td>
<td>4</td>
<td>66.67 80.00</td>
</tr>
<tr>
<td>24</td>
<td>4</td>
<td>66.67 80.00</td>
</tr>
<tr>
<td>30</td>
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<td>66.67 80.00</td>
</tr>
<tr>
<td>48</td>
<td>4</td>
<td>66.67 80.00</td>
</tr>
</tbody>
</table>

**WIND LOAD A.S.D. FACTOR NOTE:**

The design pressures shown on these charts are for allowable stress design. Wind loads calculated based upon "ULTIMATE WIND SPEED" as determined from ASCE 7-10 are permitted to be multiplied by 0.6 for comparison between the acting wind loads and the design pressure of the units.
ELEVATIONS OF APPROVED CONFIGURATIONS FOR GLASS TYPE A

NOTES:
1. SEE GLAZING DETAIL FOR GLASS TYPE A ON SHEET 1 OF 16.
2. ALL ANCHORS SHOWN IN ELEVATIONS ARE IN PAIRS.
3. NUMBER OF CLUSTERS VARY ACCORDING TO DOOR CONFIGURATION.
4. INTERMEDIATE HEAD AND SILL ANCHORS SHALL BE ADDED TO ANCHORS OF CLUSTERS SELECTED FROM CHARTS ON SHEET 2 OF 16 PLUS ANCHORS ON JAMS TO FIGURE TOTAL NUMBER OF FRAME ANCHORS.

D.L.O. FORMULA FOR OXO

D.L.O. FORMULA FOR OX/XX
D.L.O. HEIGHT = FRAME HEIGHT - 7.375" D.L.O. WIDTH = (FRAME WIDTH - 13.75")/2

D.L.O. FORMULA FOR XX
D.L.O. HEIGHT = FRAME HEIGHT - 7.375" D.L.O. WIDTH = (FRAME WIDTH - 13.75")/2

D.L.O. FORMULA FOR OXO

D.L.O. FORMULA FOR OX/XX
D.L.O. HEIGHT = FRAME HEIGHT - 7.375" D.L.O. WIDTH = (FRAME WIDTH - 13.75")/2

D.L.O. FORMULA FOR XX
D.L.O. HEIGHT = FRAME HEIGHT - 7.375" D.L.O. WIDTH = (FRAME WIDTH - 13.75")/2
NOTE:
FIXED PANEL CLIP SCREWS (28) ARE SPACED AS FOLLOWS:
- FIRST SCREW @ 1 1/2" MAX. FROM BOTTOM END OF CLIP (11)
- INTERMEDIATE SCREWS @ 1 1/2" O.C. MAX. ALONG CLIP (11)
- LAST SCREW @ 1 1/2" MAX. FROM TOP END OF CLIP (11)

FOR INSTALLATION DETAILS SEE SHEETS 14 THRU 16

HORIZONTAL SECTIONS
OX OR XO (2 PANELS - 2 TRACKS)

NOTE:
FIXED PANEL CUP SCREWS are spaced as follows:
- FIRST SCREW @ 1 1/2" MAX. FROM BOTTOM END OF CLIP
- INTERMEDIATE SCREWS @ 14 1/2" O.C. MAX. ALONG CLIP
- LAST SCREW @ 1 1/2" MAX. FROM TOP END OF CLIP

FOR INSTALLATION DETAILS SEE SHEETS 14 THRU 16

HORIZONTAL SECTIONS
XX (2 PANELS - 2 TRACKS)

HORIZONTAL SECTIONS
NOTE:
FIXED PANEL CLIP SCREWS (20) ARE SPACED AS FOLLOWS:
- FIRST SCREW @ 1 1/2" MAX. FROM BOTTOM END OF CLIP (13)
- INTERMEDIATE SCREWS @ 14 1/2" O.C. MAX. ALONG CLIP (11)
- LAST SCREW @ 1 1/2" MAX. FROM TOP END OF CLIP (11)

FOR INSTALLATION DETAILS SEE SHEETS 14 THRU 16

OXO (3 PANELS - 2 TRACKS)
XOO (3 PANELS - 2 TRACKS)

NOTE:
FIXED PANEL CLIP SCREWS (29) ARE SPACED AS FOLLOWS:
- FIRST SCREW Ø 1 1/2" MAX. FROM BOTTOM END OF CLIP (11)
- INTERMEDIATE SCREWS Ø 1 1/2" O.C. MAX. ALONG CLIP (11)
- LAST SCREW Ø 1 1/2" MAX. FROM TOP END OF CLIP (11)

FOR INSTALLATION DETAILS SEE SHEETS 14 THRU 16

HORIZONTAL SECTIONS
OOX (3 PANELS - 2 TRACKS)

NOTE:
FIXED PANEL CLIP SCREWS [29] ARE SPACED AS FOLLOWS:
- FIRST SCREW @ 1 1/2" MAX. FROM BOTTOM END OF CLIP [11]
- INTERMEDIATE SCREWS @ 14 1/2" D.C. MAX. ALONG CLIP [11]
- LAST SCREW @ 1 1/2" MAX. FROM TOP END OF CLIP [11]

FOR INSTALLATION DETAILS SEE SHEETS 14 THRU 16

HORIZONTAL SECTIONS
CLUSTERS AND CORNERS DETAILS.

CENTER LINE.

2 DOUBLE ROWS (CLUSTER OF 4) OF
5/16" ULTRACON IN CONCRETE AND WOOD
OR 1/4" KWM FLEX OR DRL-FLEX GR 5
SELF DRILLING SCREWS IN METAL

CENTER LINE.

3 DOUBLE ROWS (CLUSTER OF 6) OF
5/16" ULTRACON IN CONCRETE AND WOOD
OR 1/4" KWM FLEX OR DRL-FLEX GR 5
SELF DRILLING SCREWS IN METAL

NOTE: CLUSTER OF 8 ANCHORS ONLY FOR GLASS TYPE A

CENTER LINE.

4 DOUBLE ROWS (CLUSTER OF 8) OF
5/16" ULTRACON IN CONCRETE AND WOOD
OR 1/4" KWM FLEX OR DRL-FLEX GR 5
SELF DRILLING SCREWS IN METAL

CLUSTER DETAIL (4 ANCHORS)
USE FOR HEAD AND SILL AT ASTRAGAL AND / OR INTERLOCK.
(CLUSTER VALID FOR DOORS WITH GLASS TYPE A OR TYPE B)

CLUSTER DETAIL (6 ANCHORS)
USE FOR HEAD AND SILL AT ASTRAGAL AND / OR INTERLOCK.
(CLUSTER VALID FOR DOORS WITH GLASS TYPE A OR TYPE B)

CLUSTER DETAIL (8 ANCHORS)
USE FOR HEAD AND SILL AT ASTRAGAL AND / OR INTERLOCK.
(CLUSTER IS VALID ONLY FOR DOORS WITH GLASS TYPE A)
TYPICAL SECTIONS AT HEAD ATTACHMENT TO DIFFERENT SUBSTRATES.
ATTACHMENT TO CONCRETE OR GROUT FILLED BLOCK USING 1" BY WOOD BUCK

ATTACHMENT TO WOOD

ATTACHMENT TO CONCRETE OR GROUT FILLED BLOCK WITHOUT WOOD BUCKS

ATTACHMENT TO METAL STRUCTURE

TYPICAL SECTIONS AT JAMBS
ATTACHMENT TO DIFFERENT SUBSTRATES.
NOTE: 3 3/4" AND 5" HIGH SILL ONLY FOR DOORS WITH GLASS TYPE A

USE NON-SHRINK, NON-METALLIC 5 KSI HYDRAULIC CEMENT CURED AND HARDENED GROUT CONTINUOUSLY ALONG THE SILL.

5/16" # ULTRACON WITH 1 3/4" MIN. EMBEDMENT INTO CONCRETE.
FOR MAX. ANCHOR SPACING REFER TO TYPICAL ELEVATIONS ON SHEET 3 OF 16 FOR GLASS TYPE A OR SHEET 4 OF 16 FOR GLASS TYPE B AND CLUSTERS DETAILS ON SHEET 12 OF 16.

EDGE DISTANCE

1 3/4" MIN. 2 1/4"

3 3/4" HIGH SILL

NOTE: ATTACHMENT REPRESENTATIONS ARE VALID FOR GLASS TYPE A AND GLASS TYPE B.

TYPICAL SECTIONS AT SILL

NOTE: 3" HIGH SILL ONLY FOR DOORS WITH GLASS TYPE B