

CONCEPT SYSTEM® CS 77 SWING DOORS
ELEMENT DESIGN SERIES PRODUCT GUIDE



CS 77 SWING DOORS OVERVIEW



The **Concept System CS 77 Doors** offered in the **Element Design Series** are high insulating products that meet demanding requirements for thermal insulation, stability and security that are on par with the strictest American standards. The functional variant featured matches a variety of different building types with a range of solutions for inward and outward opening doors.

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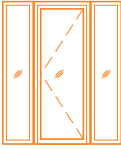


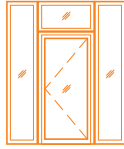
CONFIGURATION OPTIONS



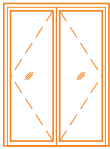
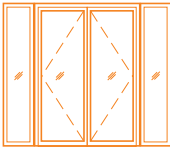

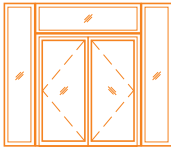
SWING DOOR PRODUCT CONFIGURATIONS

- Single & Double Panel Doors
- Optional Sidelight, Dual Sidelights & Transom
- Open In | Open Out & Right | Left Hinge Side
- Concealed Hinges
- Standard Threshold

SINGLE PANEL CONFIGURATION OPTIONS

					
Single Panel	w/Sidelight	w/Dual Sidelights	w/Transom	w/Sidelight & Transom	w/Dual Sidelights & Transom

DOUBLE PANEL CONFIGURATION OPTIONS

			
Double Panel	w/Dual Sidelights	w/Transom	w/Dual Sidelights & Transom

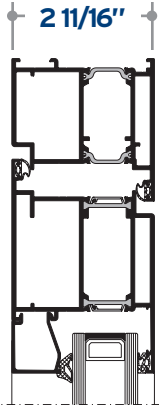
CONFIGURATION DIMENSIONS



CONFIGURATION (MIN-MAX) DIMENSIONS

	Single Panel		Double Panel		Transom		Door w/Transom		Sidelight(s)	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Width	24"	56"	48"	100"	Door Width		Door Width		12"	24"
Height	82"	120"	82	120"	10"	38"	92"	120"	82"	120"

Jamb Detail - System Depth - Frame & Vent



PROFILE DIMENSIONS & DIAGRAMS



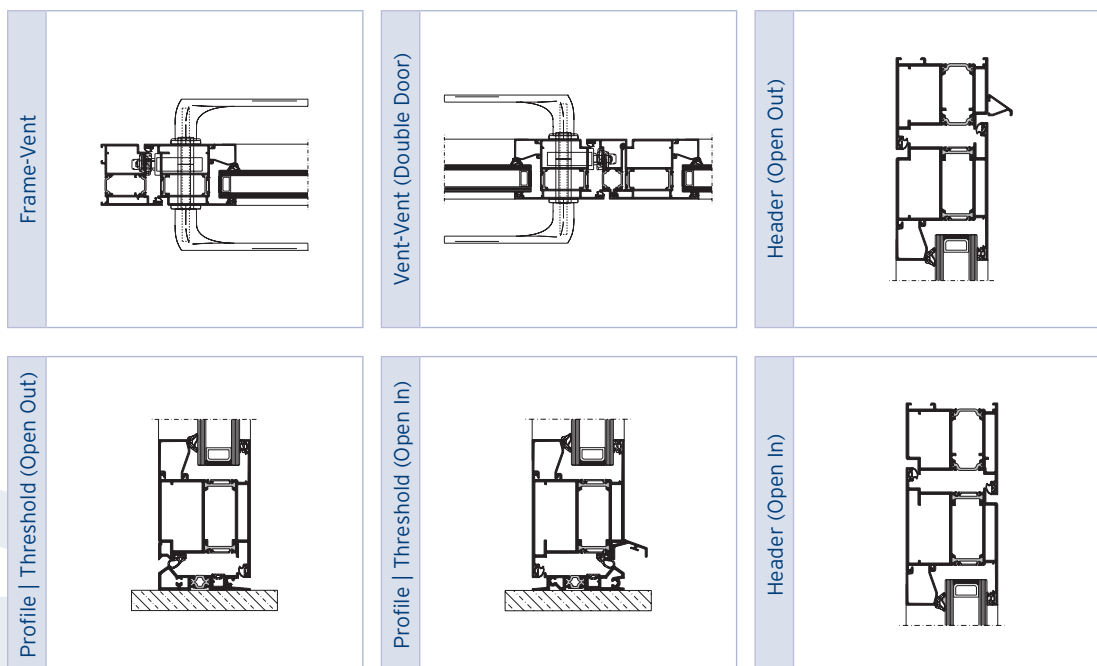
PROFILE DIMENSIONS - DOORS

Visible Width				Threshold Height	System Depth
Frame	Vent	Frame-Vent	Vent-Vent	Standard	Frame / Vent
2 11/16"	3"	5 7/8"	8 1/4"	1/2"	2 11/16"

PROFILE DIMENSIONS - SIDELIGHT(S) & TRANSOM

Visible Width	Visible Height	System Depth
Door Vent - Frame - Coupler - Sidelight Frame	Door Vent - Frame - Coupler - Transom Frame	Sidelight/Transom
9 1/4"	8 7/16"	2 11/16"

PRODUCT PROFILE DIAGRAMS

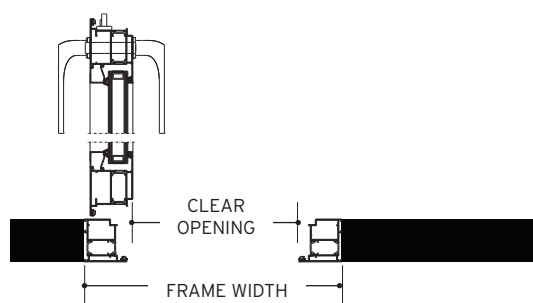


OPENING DIAGRAMS



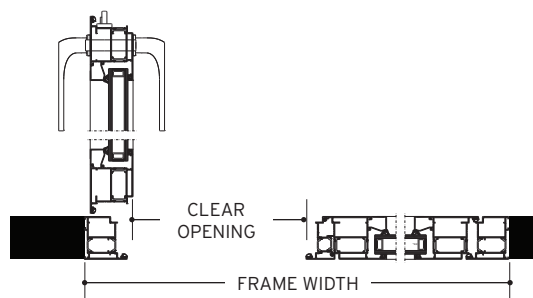
SINGLE PANEL DOOR CLEAR OPENING

Clear Opening		
Frame Width	Profile Widths	Clear Opening
Min-Max.	6"	Per Equation
Frame Width - Profiles Widths = Clear Opening		



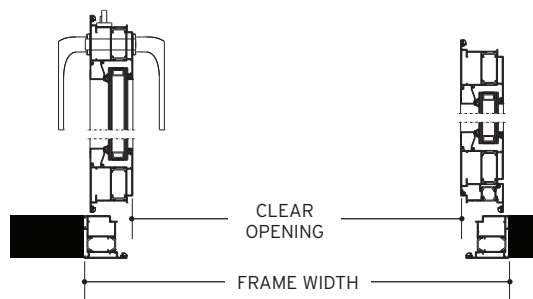
DOUBLE PANEL DOOR - CLEAR OPENING ACTIVE LEAF OPEN ONLY

Clear Opening		
Frame Width	Profile & Leaf Widths	Clear Opening
Min-Max.	4 1/4"	Per Equation
Frame Width/2 - Profiles/Leaf Widths = Clear Opening		



DOUBLE PANEL DOOR - CLEAR OPENING ACTIVE & SLAVE LEAF OPEN










Clear Opening		
Frame Width	Profile Widths	Clear Opening
Min-Max.	6 3/4"	Per Equation
Frame Width - Profiles Widths = Clear Opening		



PERFORMANCE & GLASS INFORMATION



PERFORMANCE INFORMATION

Performance Specifications				
	Thermal Insulation (Btu/hr·ft²·°F)		Uw See Specific Glass Types Open In Open Out	SHGC See Specific Glass Types Open In Open Out
	Type 1 - 1 1/4" Double Glazed 1/4" SN68 - 11/16" air - 1/4" clear		0.42 0.41	0.23
	Type 2 - 1 1/4" Double Glazed 1/4" SN68 - 11/16" air - 1/4" IS20		0.38 0.37	0.22
	Type 3 - 1 1/4" Double Glazed 1/4" SN68 - 11/16" argon - 1/4" clear		0.39 0.39	0.23
	Type 4 - 1 1/4" Double Glazed 1/4" SN68 - 11/16" argon - 1/4" IS20		0.36 0.36	0.22
	Type 5 - 1 1/4" Double Glazed 1/4" SNX62/27 - 11/16" air - 1/4" clear		0.41 0.41	0.17
	Type 6 - 1 1/4" Double Glazed 1/4" SNX62/27 - 11/16" air - 1/4" IS20		0.38 0.37	0.16
	Type 7 - 1 1/4" Double Glazed 1/4" SNX62/27 - 11/16" argon - 1/4" clear		0.39 0.38	0.16
	Type 8 - 1 1/4" Double Glazed 1/4" SNX62/27 - 11/16" argon - 1/4" IS20		0.36 0.35	0.16
	Type 9 - 1 1/4" Double Glazed 1/4" LoE-366 - 11/16" air - 1/4" clear		0.40 0.40	0.18
	Type 10 - 1 1/4" Double Glazed 1/4" LoE-366 - 11/16" air - 1/4" I89		0.36 0.36	0.18
	Type 11 - 1 1/4" Double Glazed 1/4" LoE-366 - 11/16" argon - 1/4" clear		0.38 0.38	0.18
	Type 12 - 1 1/4" Double Glazed 1/4" LoE-366 - 11/16" argon - 1/4" I89		0.35 0.35	0.17
	Acoustic Performance ASTM E90-09/1332		STC39 - OITC 36	
	Air Tightness (cfm/ft²)		0.02	
	AAMA Rating		R PG 15	
	Water tightness (psf)		3	
*Performance varies based on glazing specifications & opening direction				

PRODUCT GLAZING INFORMATION

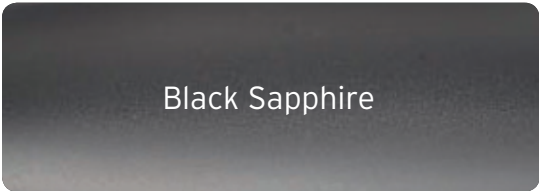
Glazing Table			
Glazing Thickness	Glazing Bead	Glazing Gasket - Inside	Glazing Gasket - Outside
1 1/4"	030.3611.79 9M04	080.9126.04	080.9114.04

PURITY HARDWARE




PURITY DESIGN HANDLES

Products featured within the Element Series are offered with Purity® hardware in Sapphire Black or Lithium.

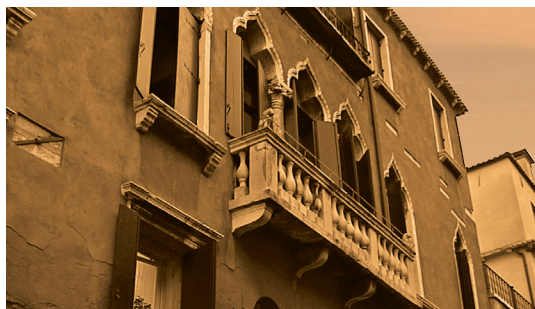


Black Sapphire



Lithium

The Purity® line of handles is an exclusive series created by and for Reynaers, in cooperation with Italian designer Leo de Carlo. Its look is influenced by its Italian roots and is governed by simplicity and elegance. Its designer, Leo de Carlo, was a student of renowned architect Philippe Starck at his Paris agency before commencing work with Reynaers. **The handle is a marvel in innovation and quality and is the perfect accessory for any system.**



The handle is particularly innovative in terms of material, production, installation and modularity. Purity® is made from a new material called Pura™, for which Reynaers has world-wide exclusivity to in regards to window and door handles.

Every Purity® handle is equipped with the unique Cliq-Clag™ mechanism, a revolution on its own. The part easily fits over the spindle and snaps into place. The handle is then attached by simply fitting it on top of the mechanism, leaving you with a beautifully crafted handle.

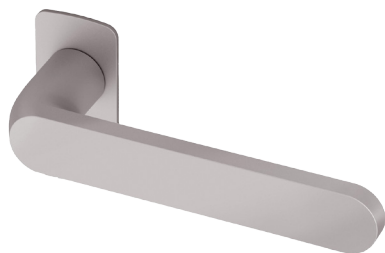
PURITY DOOR HARDWARE



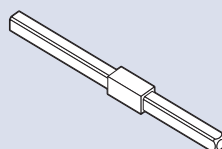
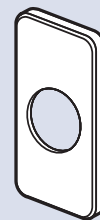
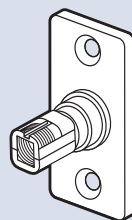
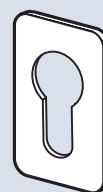
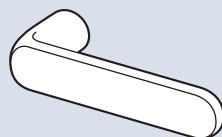
DESIGN



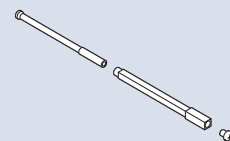
CYLINDER COVER



 15/16" 24 mm
  5 13/16" 147 mm
  1 13/16" 46 mm



Continuous Pin for Double Handle



Hall Expandable Pin for Single Handle

FINISH SPECIFICATIONS



STANDARD POWDER COAT FINISH

Products featured within the Element Design Series are offered in standard AAMA 2604 - Matte RAL 9004 Signal Black finish. AAMA 2604 are Qualicoat Class II.

RAL 9004
Matte Signal Black

STANDARD COLORS AAMA 2604

Powder coating is an environmentally friendly way to paint your windows and doors which excludes the use of VOC's (Volatile Organic Compounds). This process requires less energy than many other surface treatments, therefore reducing the carbon footprint throughout production work flow. Like anodizing, powder coating is highly resistant against UV radiation and neither rusts nor rots. By offering excellent protection against the elements, this assures the end user that minimal maintenance will be required.

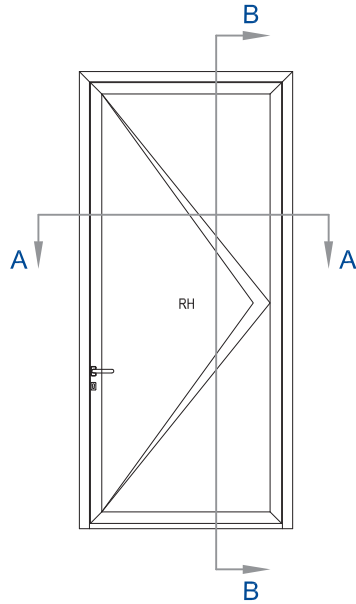
During the first step of the powder coating process the aluminum is degreased and etched with a protective conversion layer on the surface. Next, the powder coating is applied using a negative charge on the powder particles, so the powder coating can attach to the grounded aluminum. Finally the profiles are cured in an oven in order to polymerize the powder coating into a stable, high quality and scratch resistant finish.

At Reynaers we focus on quality and sustainability, offering all treatments according to the AAMA (American Architectural Manufacturers Association) and certified European Qualicoat standards. Our main partner for powder coating is Axalta Coating Systems, a US based global player active in all fields of coating.

Powder coating is performed at Reynaers' plants in Europe as well as at US suppliers audited by Reynaers specialists.

BUILDING INTEGRATION DETAILS

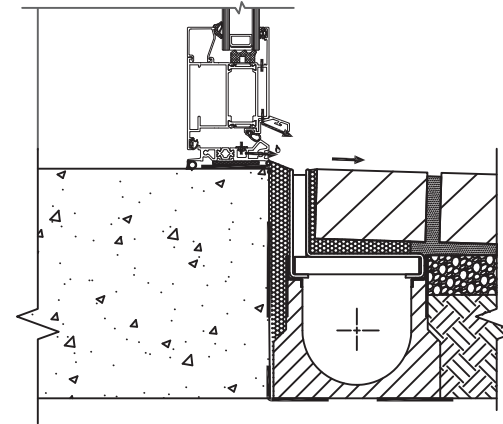
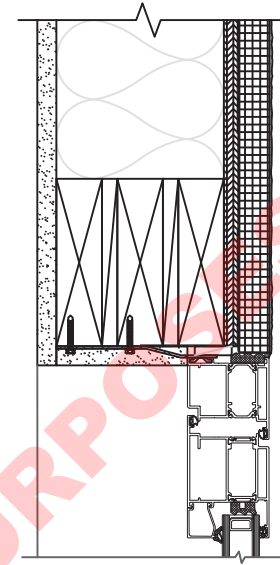




EXTERIOR ELEVATION

SCALE: N.T.S

1



SECTION A-A: JAMBS

SCALE: N.T.S

2

SECTION B-B: HEAD / SILL

SCALE: N.T.S

3

PRODUCT TYPE
SWING DOOR



REYNAERS
aluminium

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CS 77

Concept System® 77

**BUILDING
INTEGRATION DETAIL**

CONSTRUCTION TYPE:

2x6 Frame

FINISH:

Stucco

PROFILE/THRESHOLD:

Standard

OPENING CONFIGURATION:

Open In

REVISION NO. - DATE

1 | 2017AUG01

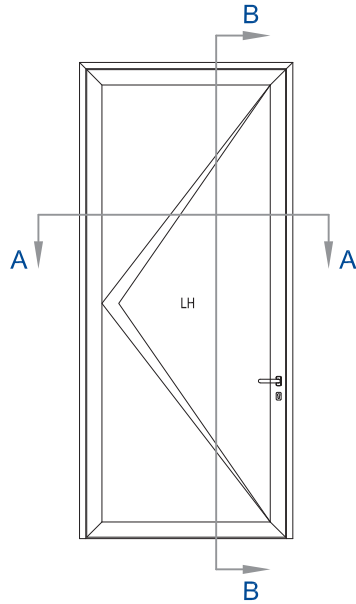
SHEET NAME:

**Swing Door | 2x6 - Stucco
Open In**

DRAWING NO.

CS 77 | 010A

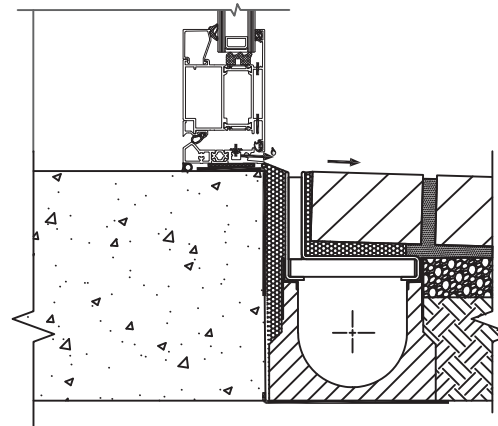
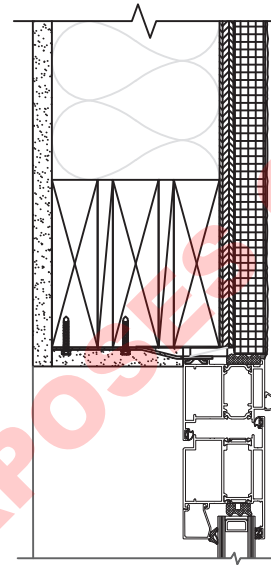
Swing Door | 2x6 - Stucco | Open In



EXTERIOR ELEVATION

SCALE: N.T.S

1



SECTION A-A: JAMBS

SCALE: N.T.S

2

SECTION B-B: HEAD / SILL

SCALE: N.T.S

3

PRODUCT TYPE
SWING DOOR



REYNAERS
aluminium

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CS 77

Concept System® 77

**BUILDING
INTEGRATION DETAIL**

CONSTRUCTION TYPE:

2x6 Frame

FINISH:

Stucco

PROFILE/THRESHOLD:

Standard

OPENING CONFIGURATION:

Open Out

REVISION NO. - DATE

1 | 2017AUG01

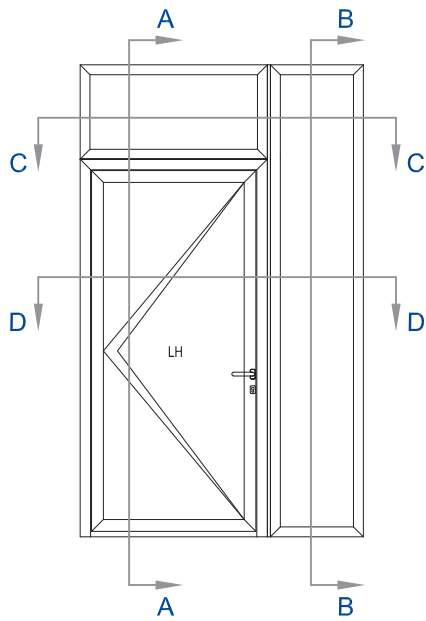
SHEET NAME:

**Swing Door | 2x6 - Stucco
Open Out**

DRAWING NO.

CS 77 | 010B

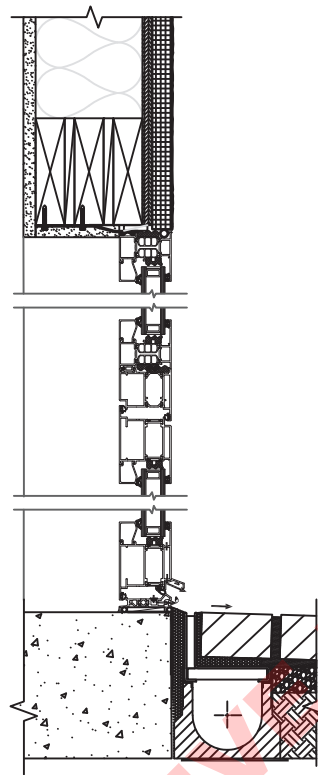
Swing Door | 2x6 - Stucco | Open Out



EXTERIOR ELEVATION

SCALE: N.T.S

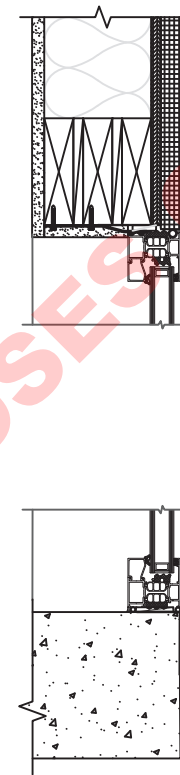
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SECTION A-A: HEAD / SILL

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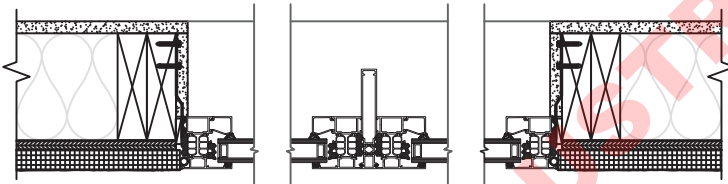
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SECTION B-B: HEAD / SILL

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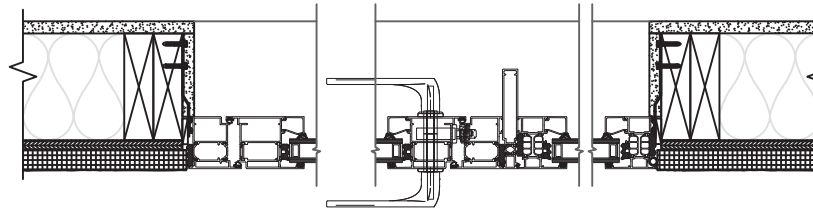
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SECTION C-C: JAMBS

SCALE: N.T.S

4



SECTION D-D: JAMBS

SCALE: N.T.S

5

PRODUCT TYPE
SWING DOOR



REYNAERS
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CS 77

Concept System® 77

**BUILDING
INTEGRATION DETAIL**

CONSTRUCTION TYPE:
2x6 Frame

FINISH:
Stucco

PROFILE/THRESHOLD:
Standard

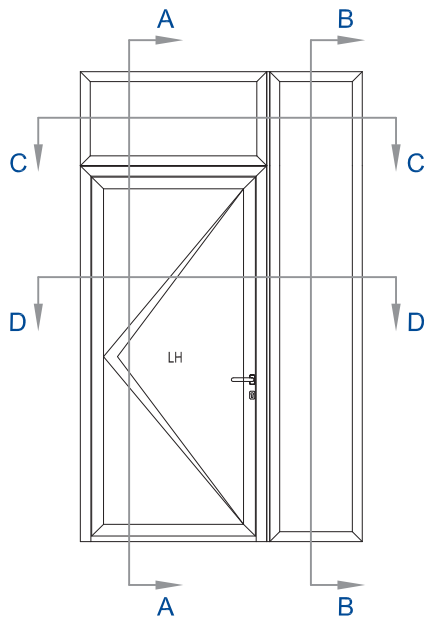
OPENING CONFIGURATION:
Open In

REVISION NO. - DATE
1 | 2017AUG01

SHEET NAME:
**Swing Door | 2x6 - Stucco
Sidelight w/Transom
Open In**

DRAWING NO.
CS 77 | 011A

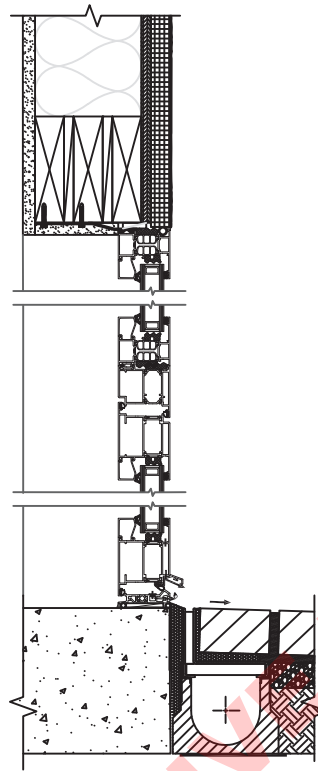
Swing Door | 2x6 - Stucco | Sidelight w/Transom | Open In



EXTERIOR ELEVATION

SCALE: N.T.S

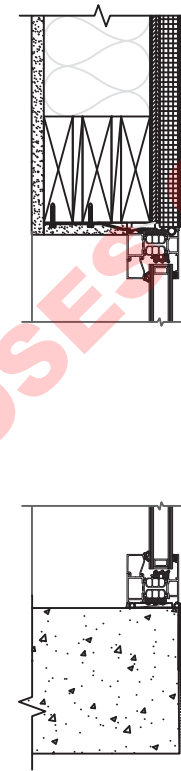
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SECTION A-A: HEAD / SILL

SCALE: N.T.S

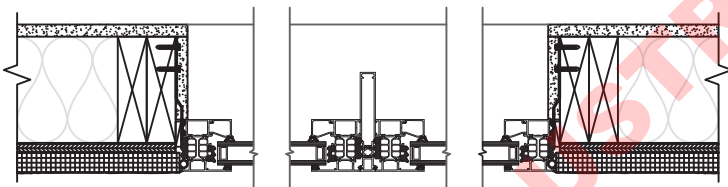
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SECTION B-B: HEAD / SILL

SCALE: N.T.S

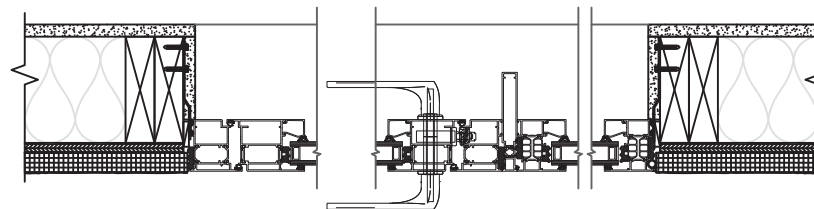
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SECTION C-C: JAMBS

SCALE: N.T.S

4



SECTION D-D: JAMBS

SCALE: N.T.S

5

PRODUCT TYPE
SWING DOOR



REYNAERS
aluminium

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CS 77

Concept System® 77

**BUILDING
INTEGRATION DETAIL**

CONSTRUCTION TYPE:
2x6 Frame

FINISH:
Stucco

PROFILE/THRESHOLD:
Standard

OPENING CONFIGURATION:
Open Out

REVISION NO. - DATE
1 | 2017AUG01

SHEET NAME:
**Swing Door | 2x6 - Stucco
Sidelight w/Transom
Open Out**

DRAWING NO.
CS 77 | 011B

Swing Door | 2x6 - Stucco | Sidelight w/ Transom | Open Out



TOGETHER FOR BETTER

REYNAERS INC.

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www.reynaers.us | elements.reynaers.us

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