

IN ACCORDANCE WITH THE DEPARTMENT OF LABOR AND
INDUSTRY'S STATUTE 326.0981, SUBD. 11,

“THIS EDUCATIONAL OFFERING IS RECOGNIZED BY THE
MINNESOTA DEPARTMENT OF LABOR AND INDUSTRY AS
SATISFYING **1.5 HOURS** OF CREDIT TOWARD **BUILDING
OFFICIALS AND RESIDENTIAL CONTRACTORS CODE / 1
HOUR ENERGY** CONTINUING EDUCATION REQUIREMENTS.”

FOR ADDITIONAL CONTINUING EDUCATION APPROVALS,
PLEASE SEE YOUR CREDIT TRACKING CARD.



BASICS TO PREPARATION AND INSTALLATION FOR SCENIC DOORS

MANUFACTURER'S RECOMMENDATIONS TO UNDERSTANDING WALL FRAMING FOR SCENIC DOORS

PRESENTER'S ERICK FILBY AND ERIC KLEIN
TERRITORY MANANAGER AND INSTALLATION SPECIALIST



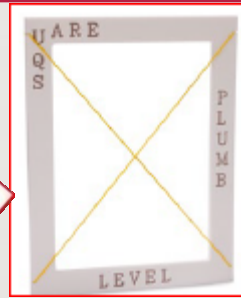
OBJECTIVES FOR TODAY'S COURSE

- ☐ **Terminology regarding framing for Pocket and Stacked Scenic Doors**
- ☐ **understanding door placement and good framing practices**
- ☐ **How to utilize manufacturer's calc's worksheet by understanding terms**
- ☐ **Choosing sill Flush, Performance, and High Performance**
- ☐ **Slot, open Slot, or Flush based on performance and exposure**
- ☐ **Level, Plumb, Square, and True**
- ☐ **Expectations of a functional fit**
- ☐ **Best practices**



TOOLS FOR THE DOOR INSTALLATION TRADE

- Mulling
- Bracketing
- Through Jamb
- Shimming
- Squaring
- Level, Plumb, Square, and True



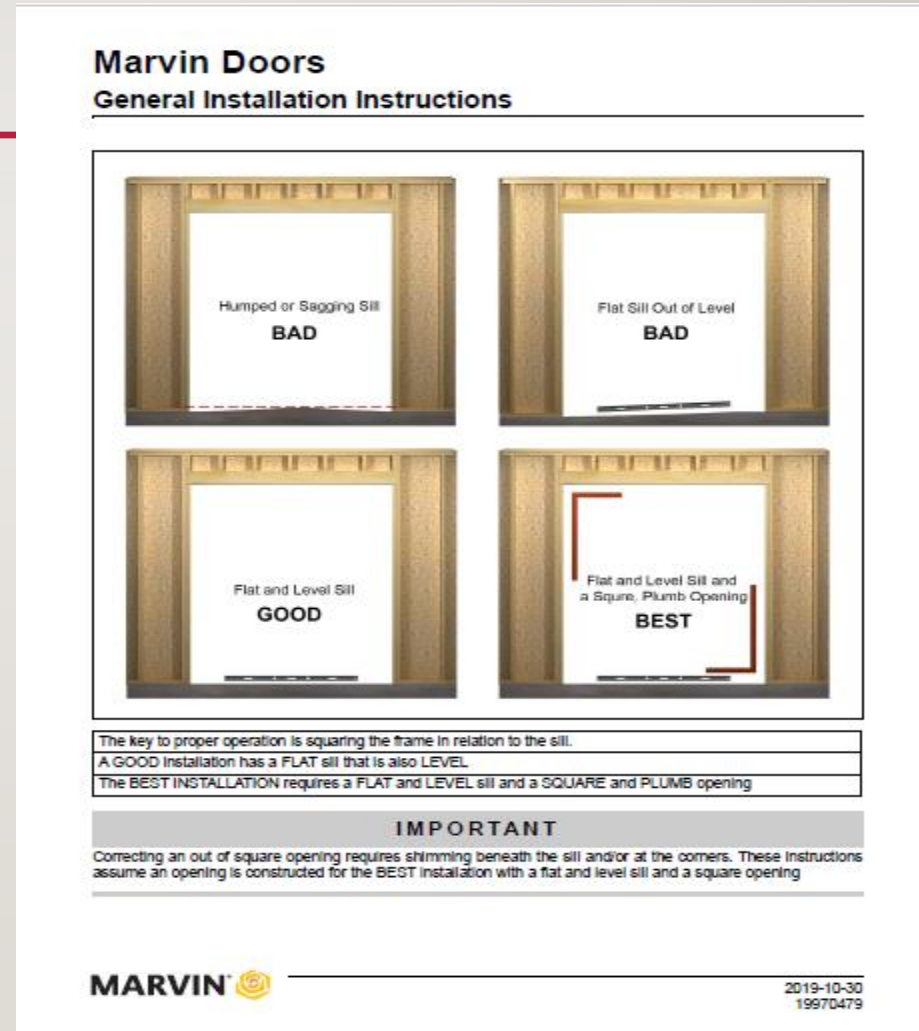
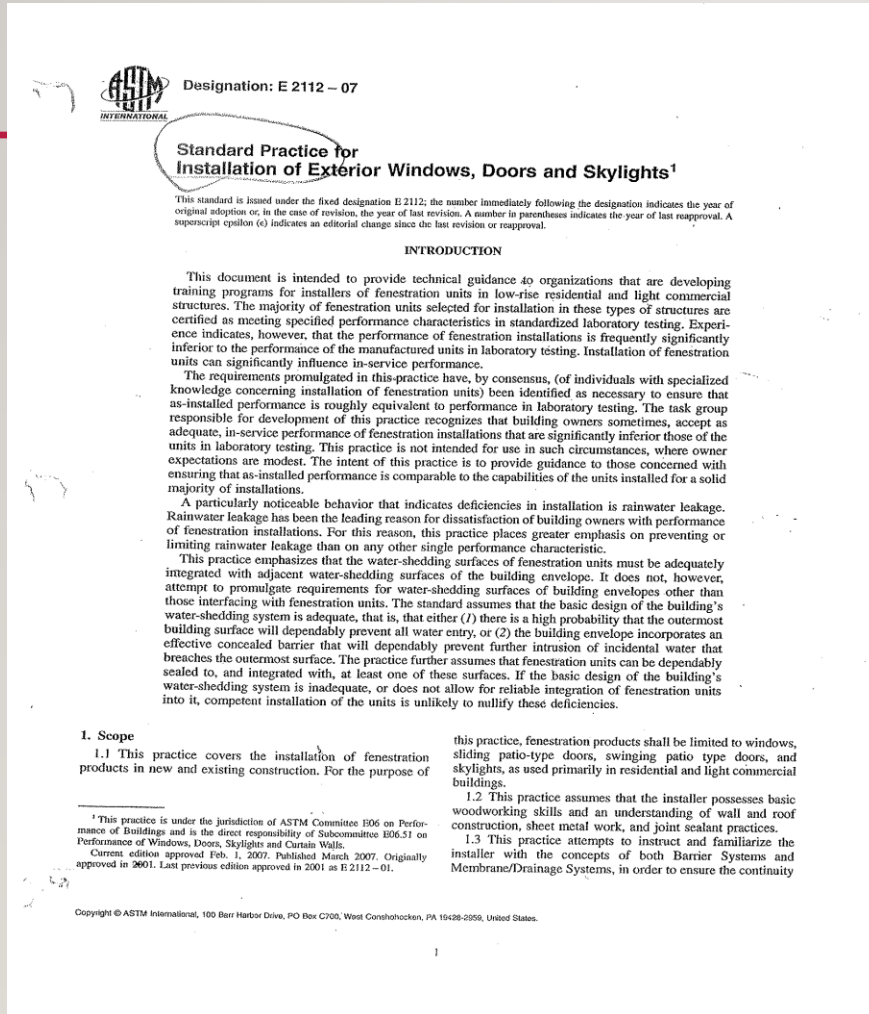
DOOR INSTALLATION

- **You chose a great Door But!!! Remember the following:**
 - **The Door is only as good as the Install**
 - **What are WE going to do about the Install (research) all involved here**
 - **What do you want to work? WALL or DOOR (both, with the attention to DETAIL)**

IN REFERENCE TO AND RECOMMENDED

- **ASTM E2112-07**

Manufacturer

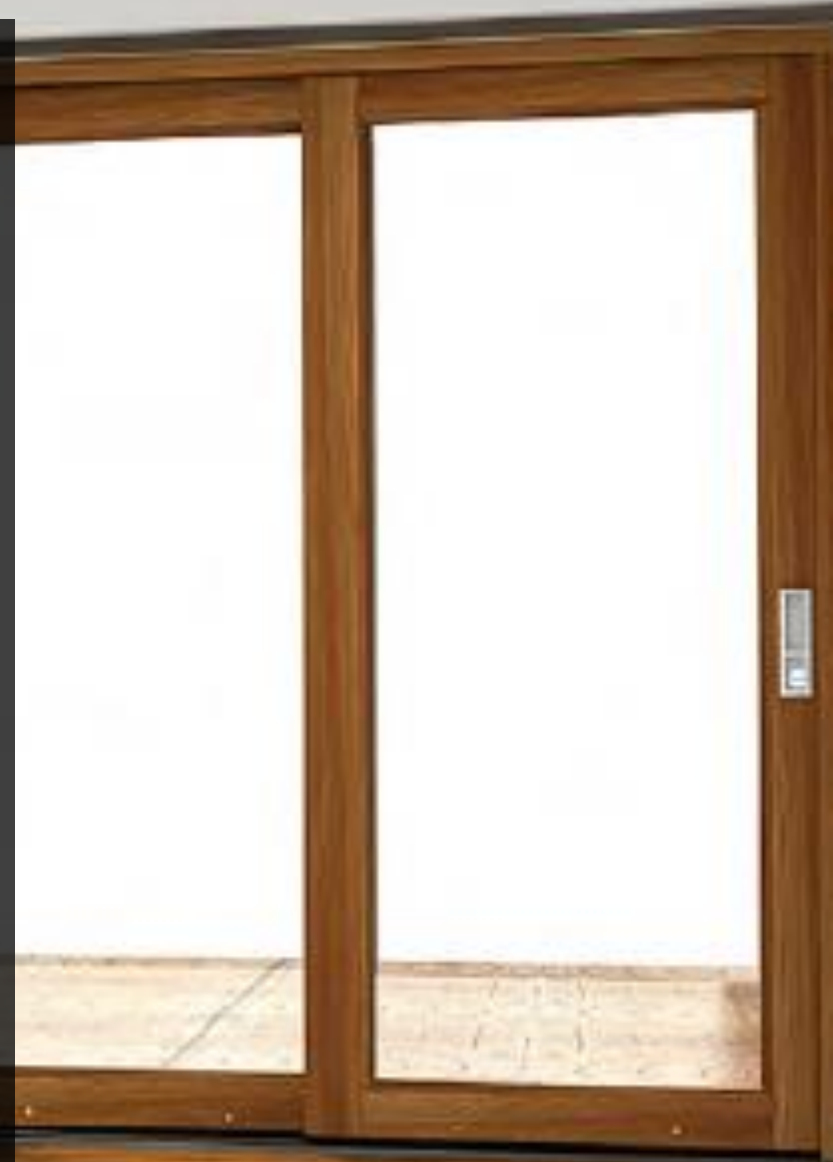


TYPE OF CONSTRUCTION

- **New Construction**
- **Wood framing**
- **Steel Framing**

What are you setting the door on????

- **Concrete**
- **Wood Structure subfloor**



LARGE SCENIC DOOR OPENINGS HOW DO I FIND EFFECTIVE DOOR INTERFACE???

POCKET DOOR CONFIGURATIONS

- Structure
- Load bearing wall
- Inset transitions
- Wall depth
- Performance

STACKED DOOR CONFIGURATIONS

- Structure
- Framing detail
- Wall depth
- Performance



TERMS USED BY MANUFACTURER

- Rough opening
- Total rough opening
- System height and width
- Frame size
- Slot recess
- Slot depth
- Slot width
- Frame depth
- Top plate
- Header
- King stud
- Jack stud
- Bottom plate
- Exterior rough opening
- Blackout wall

ENERGY AND EFFICIENCIES

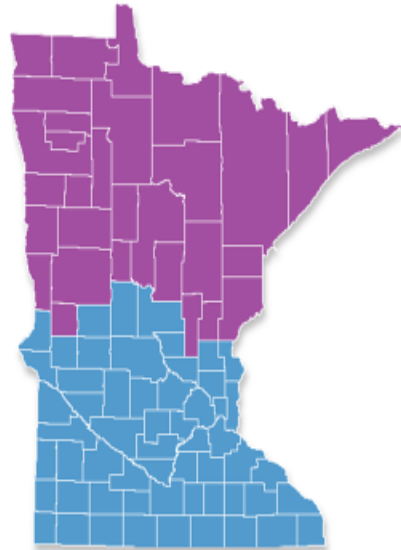
Minnesota

MN has a statewide building code. The MN Legislature mandated that the DLI can only adopt Code every 6 years.

- IBC - 12
- IRC - 12
- IECC - 12
 - IECC Zones 6 and 7

ENERGY STAR - Zone N

<http://www.dli.mn.gov/>



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Energy performance data for select combinations of options is available in table format on each product page. To access those tables, select the individual product of interest and scroll down to the Professional Resources section.

This tool is a guide only and does not reflect variations resulting from features and options not included in the tool. For more information about the energy efficiency of specific products and options, please contact your [local Marvin sales representative](#).

The National Fenestration Rating Council (NFRC) has developed and operates a uniform national rating system for the energy performance of fenestration products, including windows and doors. NFRC does not recommend product and does not warrant the suitability of product for any specific use. For additional information regarding this rating system, see www.nfrc.org/WindowRatings.

See [Energy Efficient Windows and Doors](#) for further information on this topic.

----- Product Select -----

Collections and Product Lines:

Door or Window:

Product:

----- Available Options -----

Surface:

Wood Species:

Impact Zone:

Panels:

Divider:

Spacer:

Glass:

Coating:

Gas Fill:

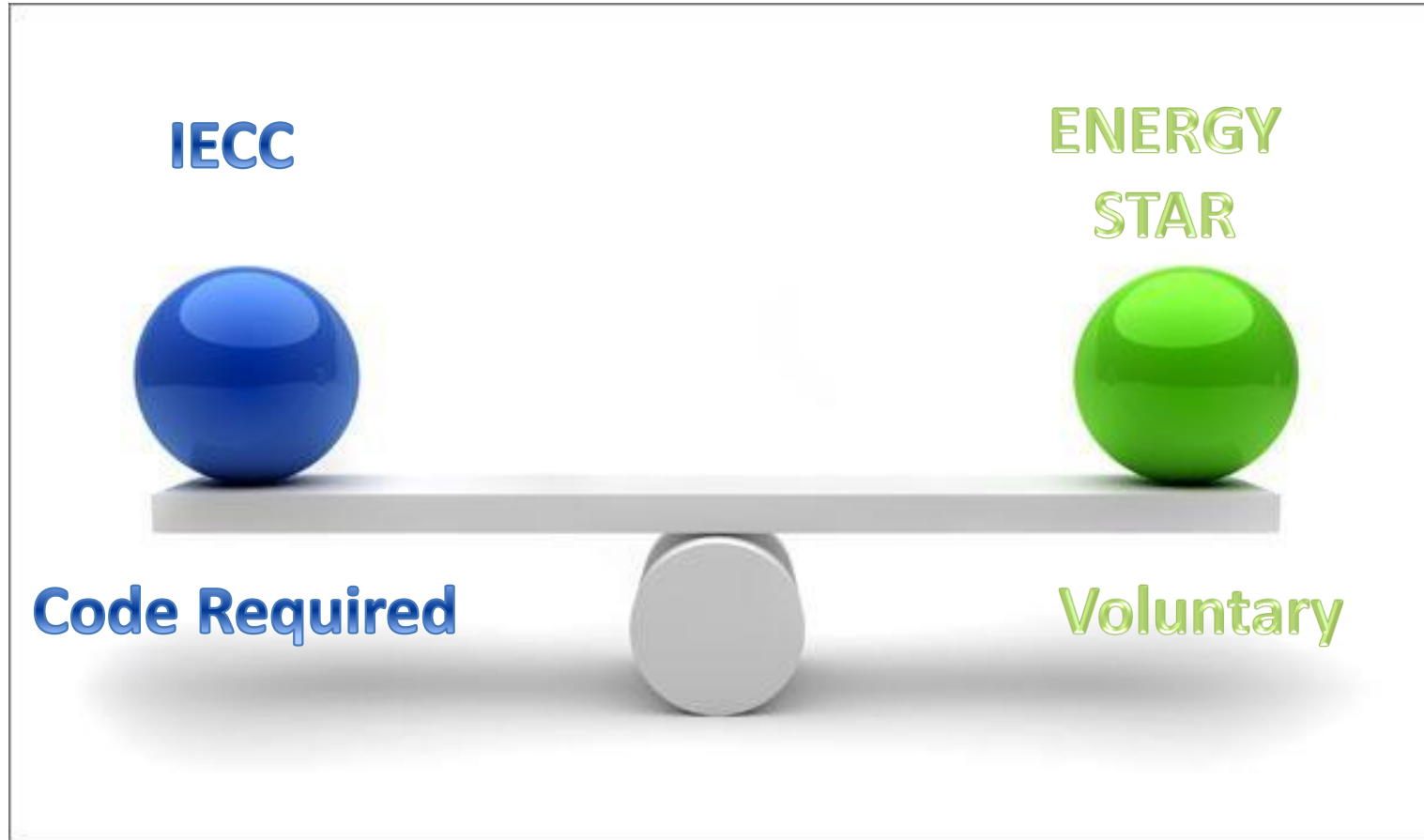
Blinds / Screens:

Energy Factor	Value (range)
U Factor:	0.28
Solar Heat Gain (SHGC):	0.28
Visual Transmittance (VT):	0.48
Condensation Resistance (CR):	55
Energy Star:	N, NC
Energy Star Canada:	1
U Factor Canada:	1.59

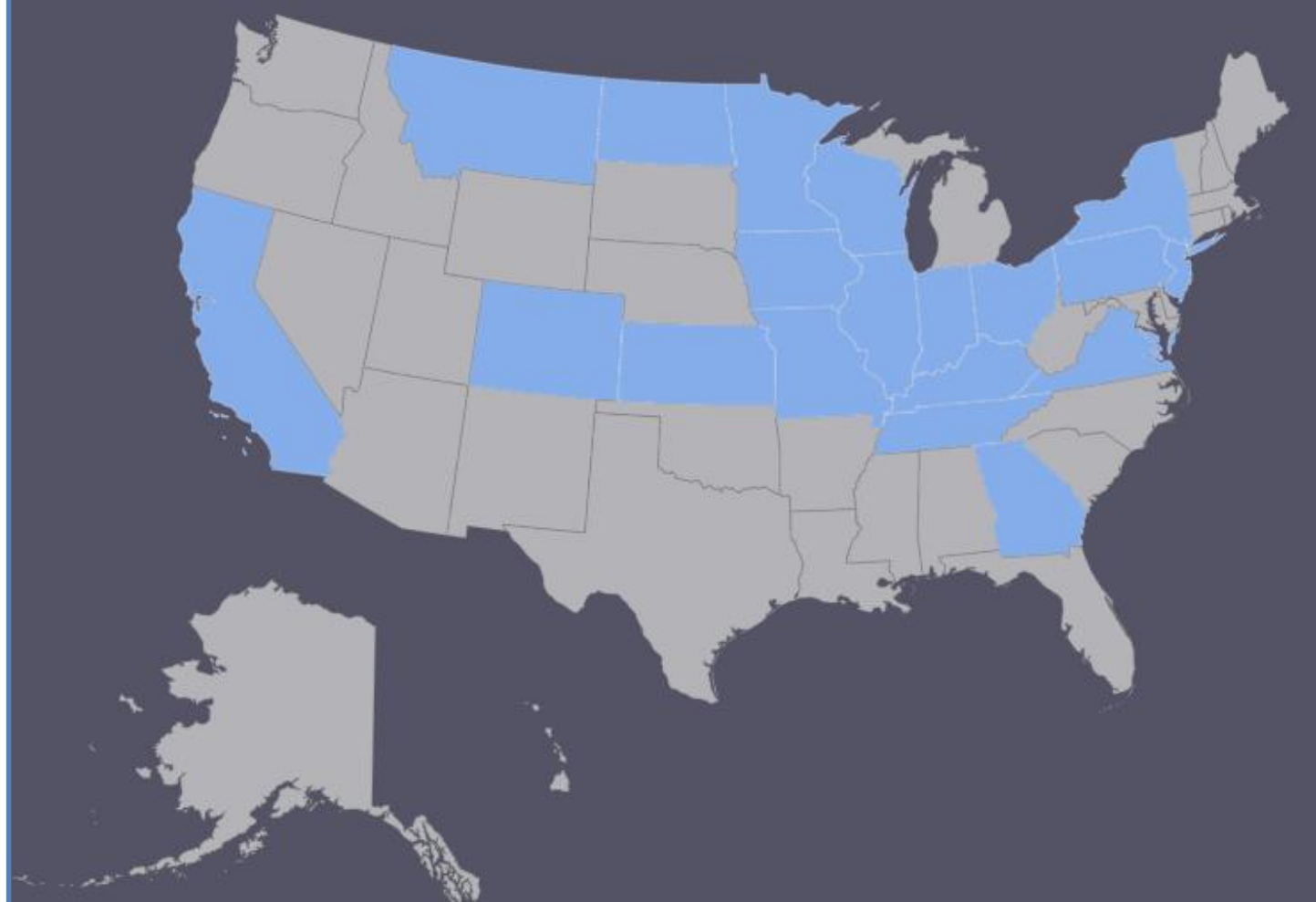
CPD Number(s):

MAR-N-436-02561-00009

Energy Performance Code vs. ENERGY STAR



- United States
 - California
 - Colorado
 - Georgia
 - Illinois
 - Indiana
 - Iowa
 - Kansas
 - Kentucky
 - Minnesota
 - Missouri
 - Montana
 - New Jersey
 - New York
 - North Dakota
 - Ohio
 - Pennsylvania
 - Tennessee
 - Virginia
 - Wisconsin



Uni-Directional Door Inputs		Instructions
Configuration:	OXXX	OXXX or XXXO
Sill Type:	High Performance Sill	Flush, Performance, or HP Sill
RO Width:	200.000	
RO Height:		No entry allowed if HP sill is selected
Total RO Height (HP Sill):	100.000	No entry allowed if Flush/Perf sill is selected
Jamb Depth:	With Nail Fin	
Available Floor thickness:	1.00	No entry allowed if Flush/Perf sill is selected
Screen Inputs		
Screen Type:	None	None, Uni-Directional, or Bi-Parting

Green cells require input

Results		
Description	Decimal Inch	Fraction Inch
Door Dimensions		
Rough Opening Width	200.000	200
Rough Opening Height	98.500	98 1/2
Total Rough Opening Height (HP Sill)	100.000	100
Frame Width	198.500	198 1/2
Frame Height	97.500	97 1/2
System Height (HP Sill)	99.187	99 3/16
Jamb Depth	12.600	12 19/32
Panel Width	51.537	51 17/32
Panel Height	95.644	95 41/64
Daylight Opening Width	45.411	45 13/32
Daylight Opening Height	89.102	89 7/64
Net Clear Opening Width	143.328	143 21/64
Net Clear Opening Height	95.250	95 1/4
Story Pole Length	96.525	96 17/32
Available Floor thickness (HP Sill)	1.000	1
Subfloor Slot Recess (HP Sill)	1.500	1 1/2
Slot Depth (HP Sill)	14.314	14 5/16
Slot Width (HP Sill)	200.500	200 1/2
Screen Dimensions		
Screen Rough Opening Width		
Screen Rough Opening Height		
Screen Frame Width		
Screen Frame Height		
Screen Frame Inside Width		
Screen Frame Inside Height		
Jamb Depth with Screen		
Slot Depth with Screen (HP Sill)		
Screen Net Clear Opening Width		

FIELD CALC SHEET STACKED

Configuration:	PXXX	PXXX or XXXP
Sill Type:	High Performance Sill	Flush, Performance, or HP Sill
Total RO Width:	200.000	
RO Height:		No entry allowed if HP sill is selected
Total RO Height (HP Sill):	100.000	No entry allowed if Flush/Perf sill is selected
Available Floor thickness:	1.00	No entry allowed if Flush/Perf sill is selected
Screen Inputs		
Screen Type:	None	None, Uni-Directional, or Bi-Parting

Green cells require input

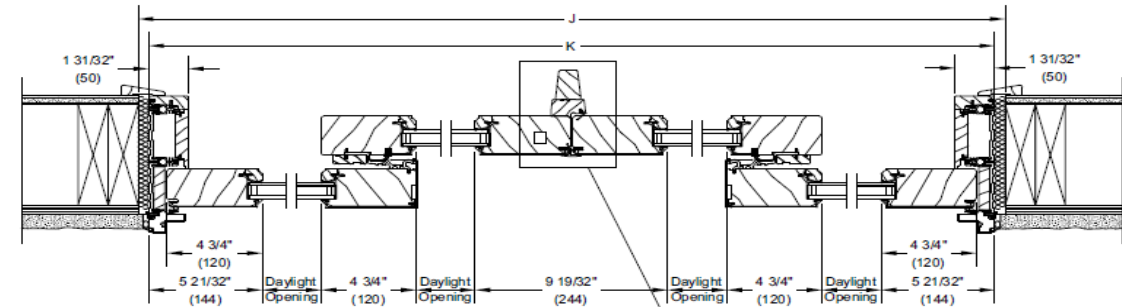
Results		
Description	Decimal Inch	Fraction Inch
Door Dimensions		
Total Rough Opening Width	200.000	200
Rough Opening Height	98.500	98 1/2
Total Rough Opening Height (HP Sill)	100.000	100
Frame Width	198.500	198 1/2
Frame Height	97.500	97 1/2
System Height (HP Sill)	99.187	99 3/16
Interior Rough Opening Width	146.764	146 49/64
Interior Frame Width	145.264	145 17/64
Exterior Rough Opening Width	146.514	146 33/64
Exterior Frame Width	145.264	145 17/64
Exterior Pocket Width	53.486	53 31/64
Interior Pocket Width	53.236	53 15/64
Pocket Depth	10.965	10 31/32
Jamb Depth	10.660	10 21/32
Panel Width	49.880	49 7/8
Panel Height	95.644	95 41/64
Pocket Panel Width	49.870	49 7/8
Pocket Panel Height	95.644	95 41/64
Daylight Opening Width	43.754	43 3/4
Daylight Opening Height	89.102	89 7/64
Net Clear Opening Width	142.274	142 9/32
Net Clear Opening Height	95.250	95 1/4
Story Pole Length	96.525	96 17/32
Available Floor thickness (HP Sill)	1.000	1
Subfloor Slot Recess (HP Sill)	1.500	1 1/2
Slot Depth (HP Sill)	11.295	11 19/64
Slot Width (HP Sill)	200.500	200 1/2
Screen Dimensions		
Screen Rough Opening Width		
Screen Rough Opening Height		
Screen Frame Width		
Screen Frame Height		
Screen Frame Inside Width		
Screen Frame Inside Height		
Jamb Depth with Screen		
Slot Depth with Screen (HP Sill)		

FIELD CALC SHEET POCKET

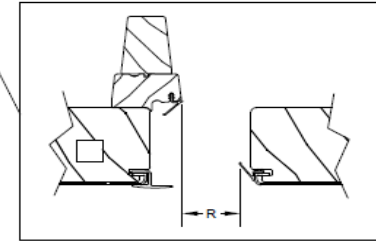
DETAILS STACKED

Section Details: Bi-Parting and Uni-Directional Stacked

Scale: Not to Scale



**UMSD STK
Bi-Parting OX-XO**



Description of Measurements Used:

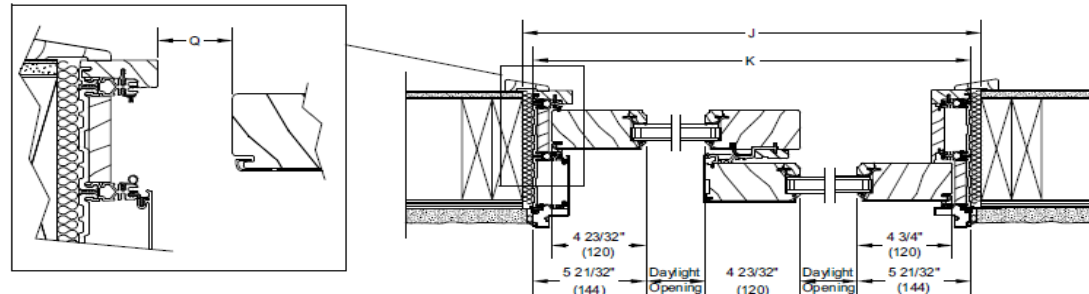
RO Width: 1" (25) wider than OM of frame.

Frame OSM Width: OM of jamb to OM of jamb.

Bi-Parting Net Clear Opening Width: The shortest measurement from the surface of the panel edge to the surface of the astragal.

Uni-Directional-Net Clear Opening Width: The shortest measurement from the surface of the wood interior liner to the surface of the panel edge.

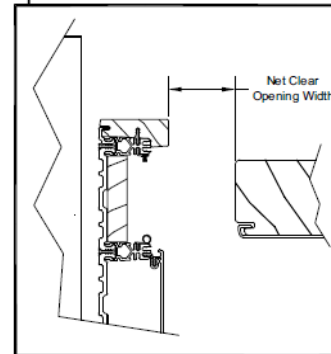
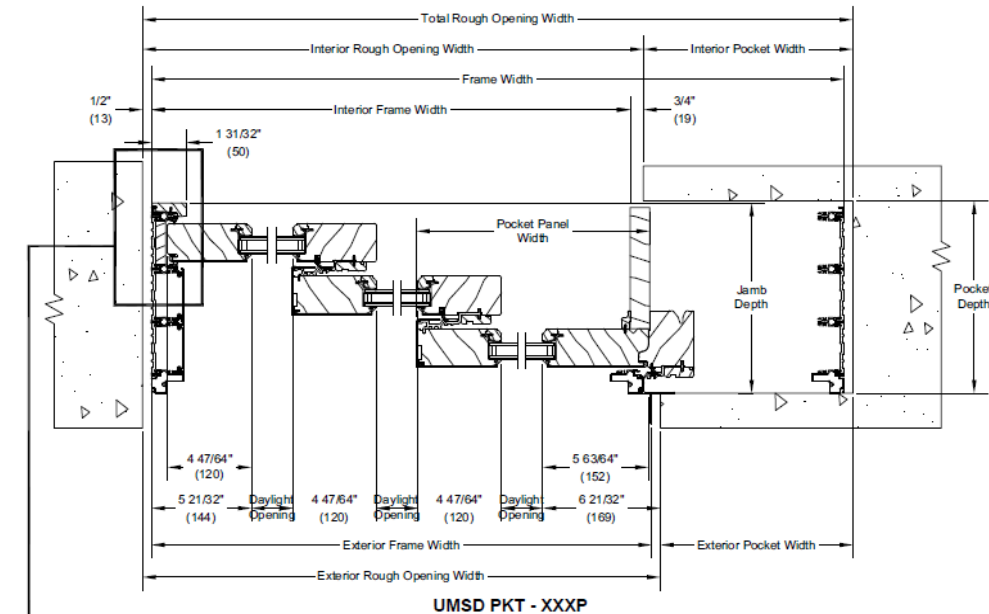
**UMSD STK
Uni-Directional XO**



DETAILS POCKET

Section Details: Uni-Directional Pocket

Scale: Not to Scale



Description of Measurements Used:

Total RO Width: Is 1" (25) wider than Frame OM

Frame OM Width: OM of jamb to OM of jamb.

Interior RO Width: To the interior plane of the door and is 1 1/4" (32) (5 1/2" (140) for PX/XP configuration) wider than the interior frame width.

Interior Frame Width: Interior surface of pocket cover to OM of jamb.

Exterior Frame Width: Pocket interlock to OM of jamb.

Exterior RO Width: 1" (25) wider than exterior frame width.

Exterior Pocket Width: Exterior wall RO to Total Rough Opening.

Interior Pocket Width: Interior wall RO to Total Rough Opening.

Pocket Depth: Is measured from the pocket interlock attachment to the interior surface of the pony wall.

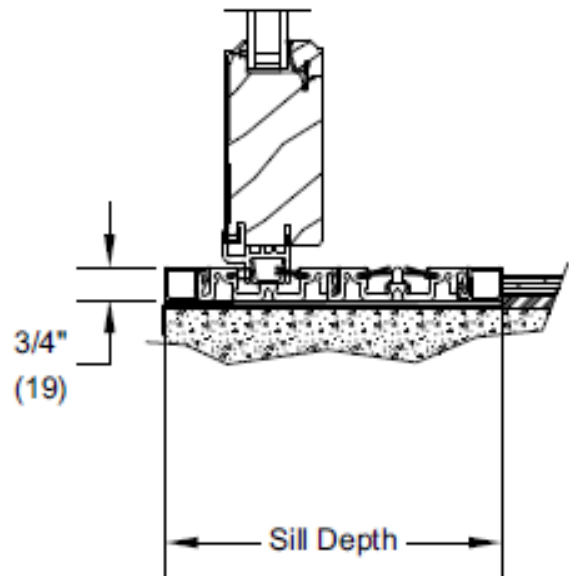
Net Clear Opening Width: The shortest measurement from the surface of the wood interior liner to the surface of the panel edge.

MULTI-SLIDE DOOR SILL CHOICES

FLUSH

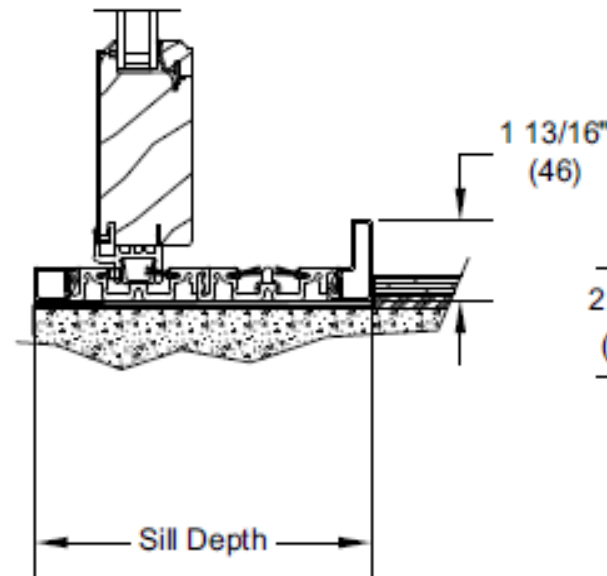
PERFORMANCE

HIGH PERFORMANCE



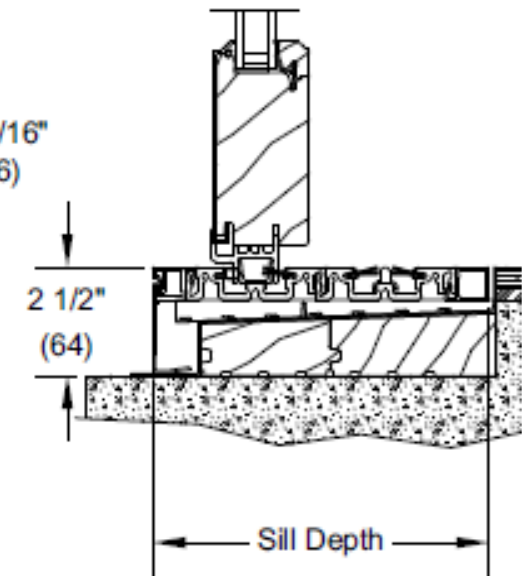
Flush Sill

3/4", Non-Certified



Performance Sill

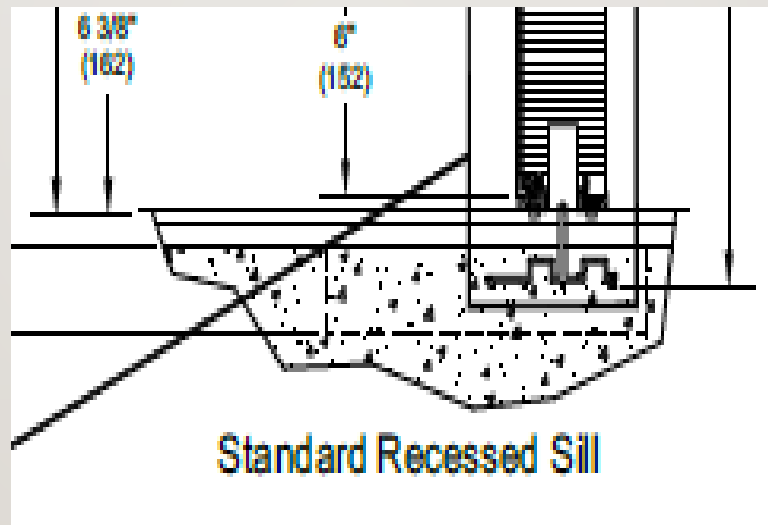
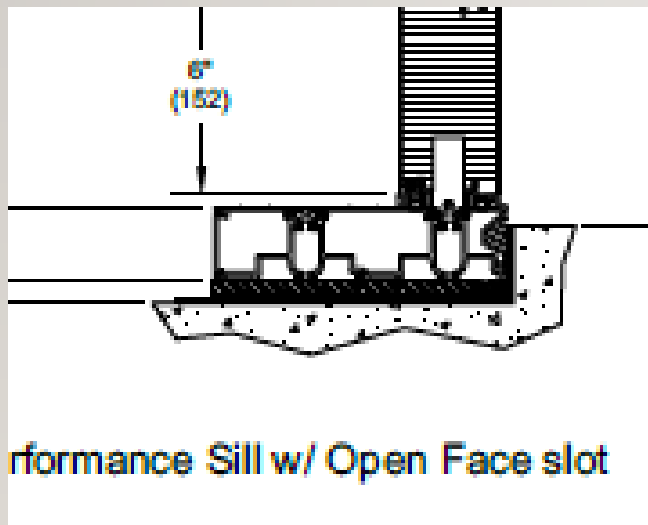
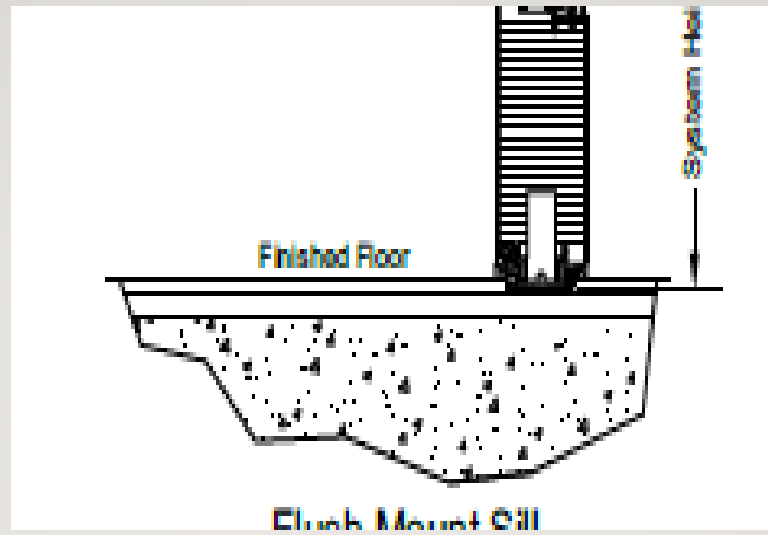
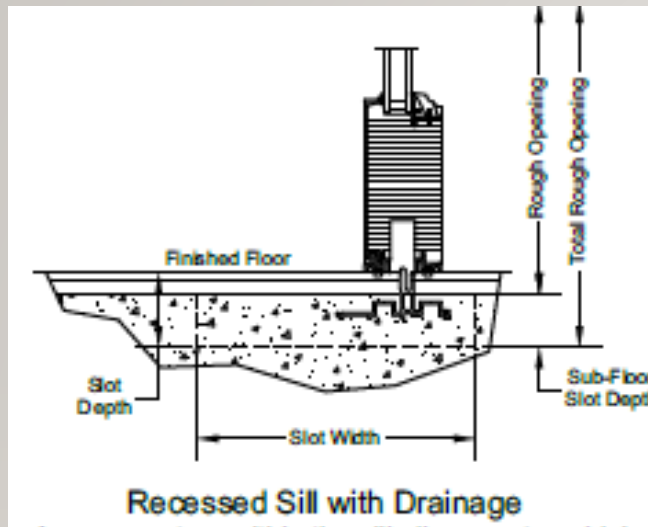
3/4" with 1 13/16" Interior Liner

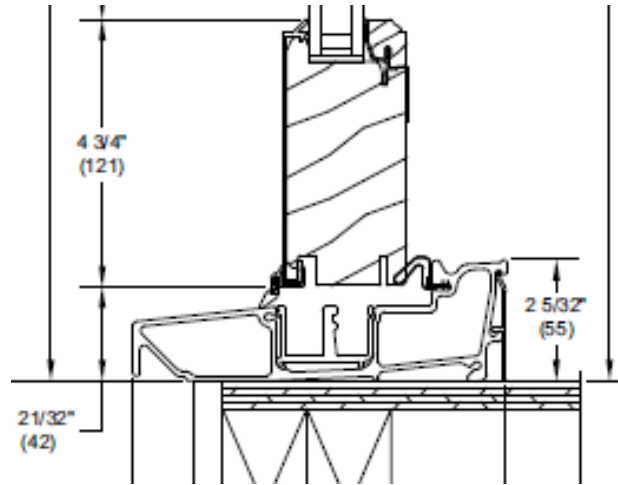
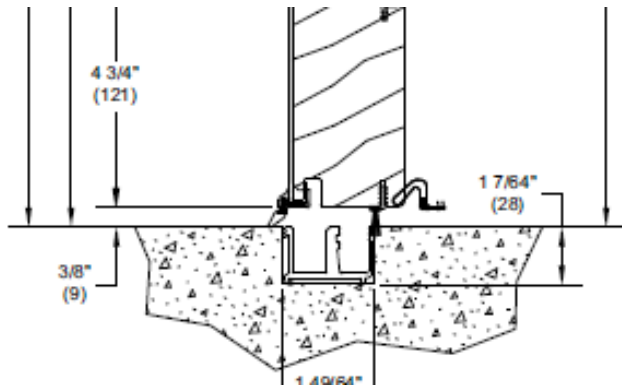
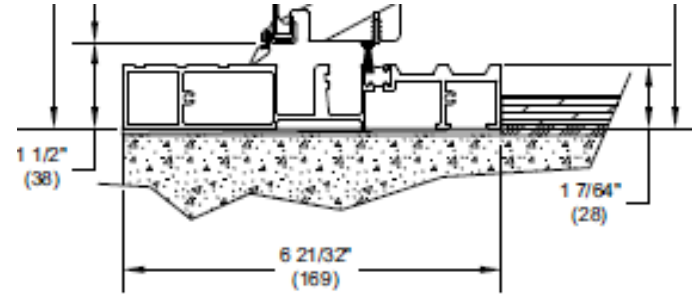


High Performance Sill

LIFT AND SLIDE DOOR CHOICES

FLUSH
RECESSED
RECESSED W/DRAINAGE
PERFORMANCE



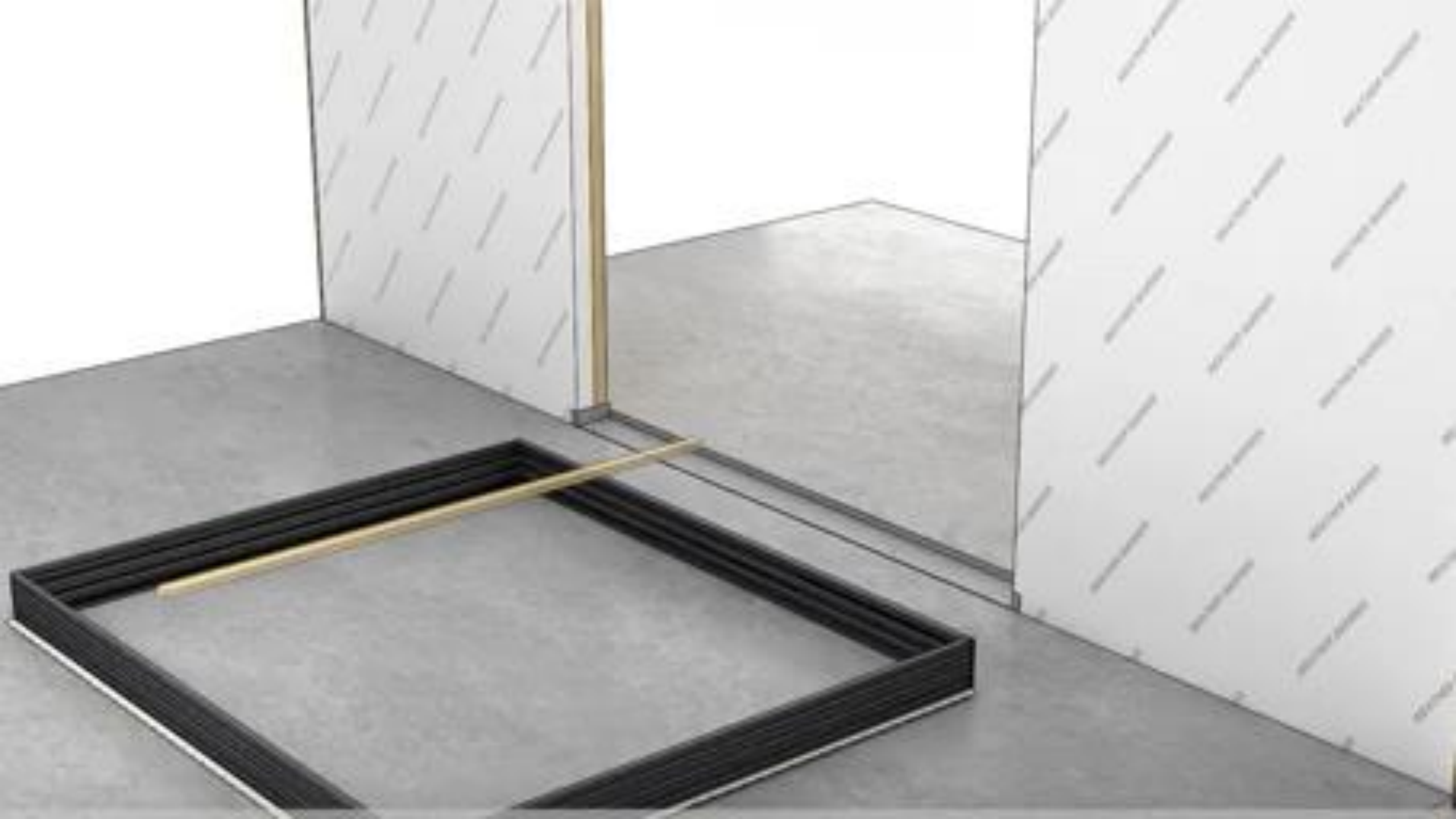


BI-FOLD DOOR SILL CHOICES

FLUSH
RECESSED
PERFORMANCE





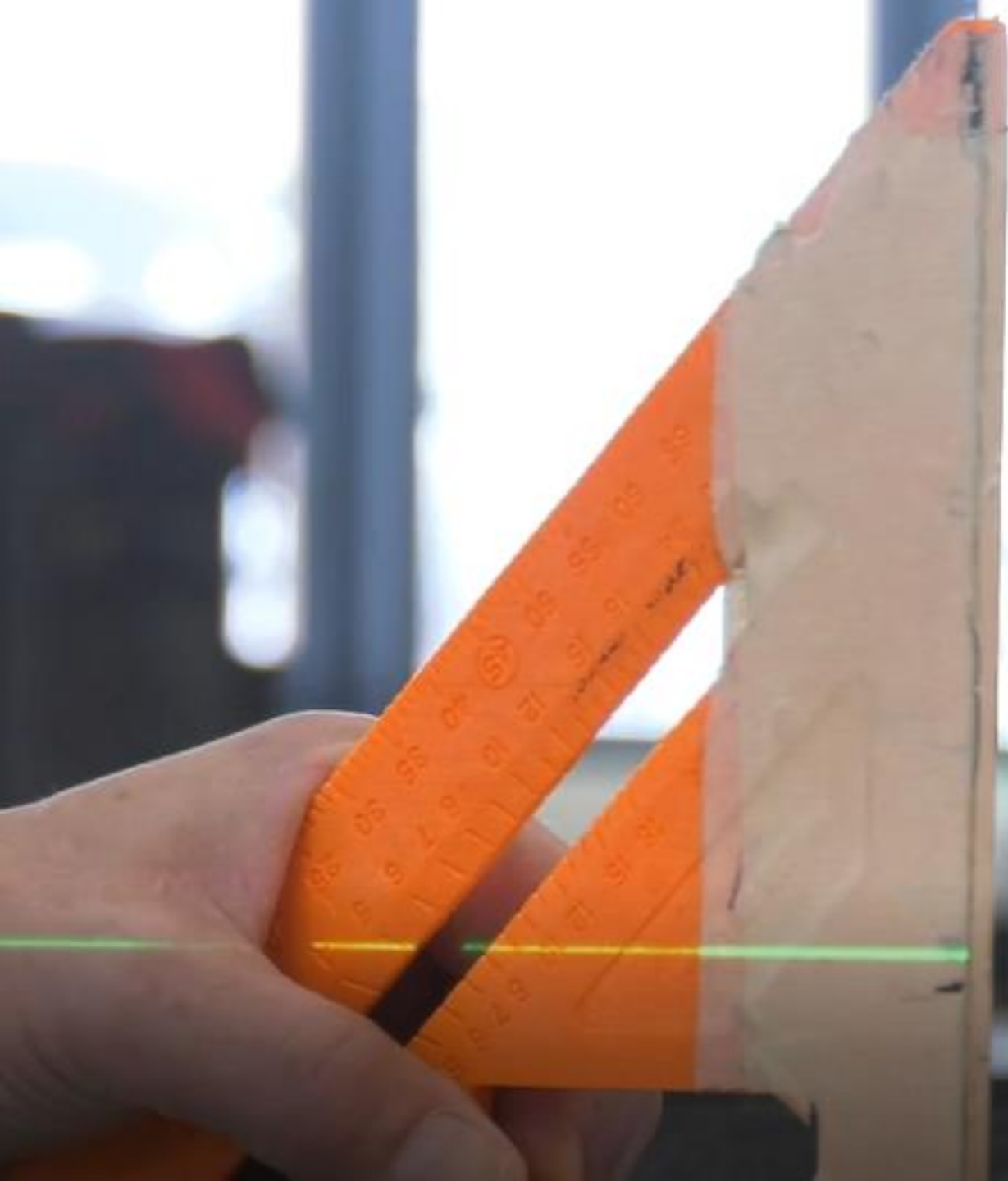




L D L L FINAL









QUESTIONS

Items mentioned & used in today's presentation

- **Utility Knife**
- **Level**
- **Hammer Tacker**
- **Laser Level**
- **Speed Square**
- **Tape Measure**
- **Flashing Tape**
- **Type III Sill Pan Flash**
- **Sealant**
- **Sheathing Tape**
- **Beveled piece of Cedar Siding**
- **Composite and Stackable Shims**
- **Corner Gaskets**
- **High Pressure Skirt**
- **Tyvek House Wrap**
- **High Pressure Skirt**

QUESTIONS

- *Thank you for your time and attention to this Presentation.
It has been a pleasure to work with you today.*

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