

centor®

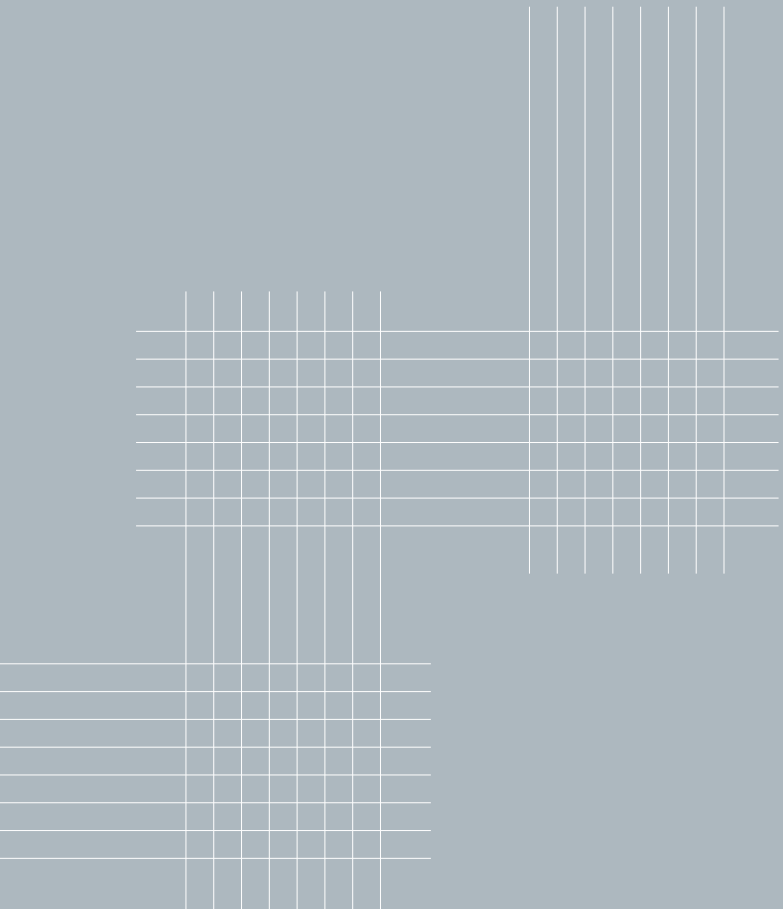


SIE Eco-Screen™ for any door or window type



Steel Windows & Doors USA
690 Surf Ave
Stratford, CT 06615
(203)-579-5157
info@steelwindowsanddoors.com
www.steelwindowsanddoors.com

centor®



CONTENTS

Screening Problems Solved	1
Considered Design	2
Built Tough and Tested	5
Projection Screen	6
Architect Interviews	7
Sectional Side View	9
Architectural Detail	10
S1E with Folding System	10
Brick Veneer	11
Concrete Block	13
Timber Cladding	15
S1E with Sliding System	17
Brick Veneer	19
Concrete Block	21
Timber Cladding	23



SCREENING PROBLEMS SOLVED

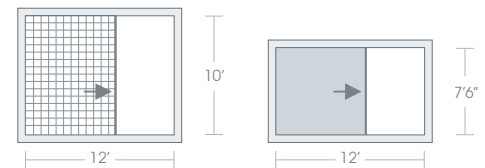
S1E Eco-Screen™ max daylight inside opening	
Single Function System	
insect screen	12' (W) x 10' (H)
blind	12' (W) x 7'6" (H)
Double System	
insect screen	24' (W) x 10' (H)
blind	24' (W) x 7'6" (H)
Multi-function System	12' (W) x 7'6" (H)

The S1E Eco-Screen™ from Centor is a world-first product providing retractable insect screening and solar control with fingertip operation. This product is the evolution of Centor's award-winning S1 Insect Screen.

S1E allows homeowners to have complete control of their living environment. Used singly or paired together S1E is ready for use whatever the season or time of day. S1E retracts horizontally and discreetly into its frame when not in use – a revolutionary solution for those who refuse to compromise on style.

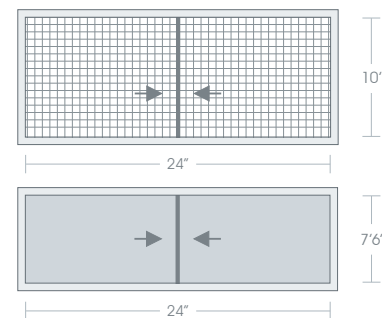
The S1E Eco-Screen™ promotes an eco-friendly lifestyle by offering chemical-free insect protection, solar control and thermal insulation; converting a single-glaze opening to double-glaze performance.

Single Function System



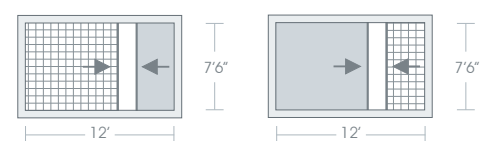
option 1 – screen from right or left
option 2 – blind from right or left

Double System



option 1 – screen from right and left
option 2 – blind from right and left

Multi-function System



option 1 – screen from right, blind from left
option 2 – screen from left, blind from right

CENTOR INNOVATIONS ENSURE S1E FUNCTIONS SIMPLY AND SMOOTHLY



CONSIDERED DESIGN

For a single function system up to 12' wide choose an insect screen to 10' high or a sun filter blind to 7'6" high.

Create a multi-function system selecting both fabric classes for a two-in-one screening solution for openings up to 12' wide and 7'6" high. The insect screen and sun filter fabrics prevent insects entering the home and provide solar control.

For larger openings between 12' wide and 24' wide select a double system, choosing an insect screen up to 10' high or sun filter blind up to 7'6" high.

The solar control blind doubles as a projection screen for either indoor or outdoor viewing. Mechanisms within the system enable the blind to be left partially open, allowing visitors to pass through the door way without the hassle of opening and closing the blind.

The considered design of the S1E Eco-Screen™ complements any large opening. Available in white, bronze and clear anodized finishes, custom paint colors and real wood veneers, it's mechanisms are concealed within the frame so screen and frame become an integrated unit.

While installation inside the building is preferred for both insect screen and solar control blind, the insect screen may be installed outside if required.

A range of Centor innovations ensure the whole package functions simply and smoothly.

Load Balancing Technology™

Load Balancing Technology (LBT™) (patent pending) allows for the effortless fingertip control synonymous with Centor products. With no crude spring-loading to fight against, the screen's lead-stile remains firmly in any chosen position until further pressure is applied. Load-balancing also means far greater tension across the screen or blind, eliminating any tendency for sag.

Tight Technology™

Tight Technology™ manufacturing techniques ensure control of the horizontal edges of the screen so they remain straight and tight across the widest spans.

Shock Absorption

In the majority of cases the shock absorption mechanism prevents system damage by redirecting impact away from the screen.

Self-Feeding Mechanism

Should winds blow the screen out of the top or bottom channels the fabric will self-feed back onto the roll.

USE S1E BLIND WITH
CLOSED DOORS ONLY



Real Wood Veneer

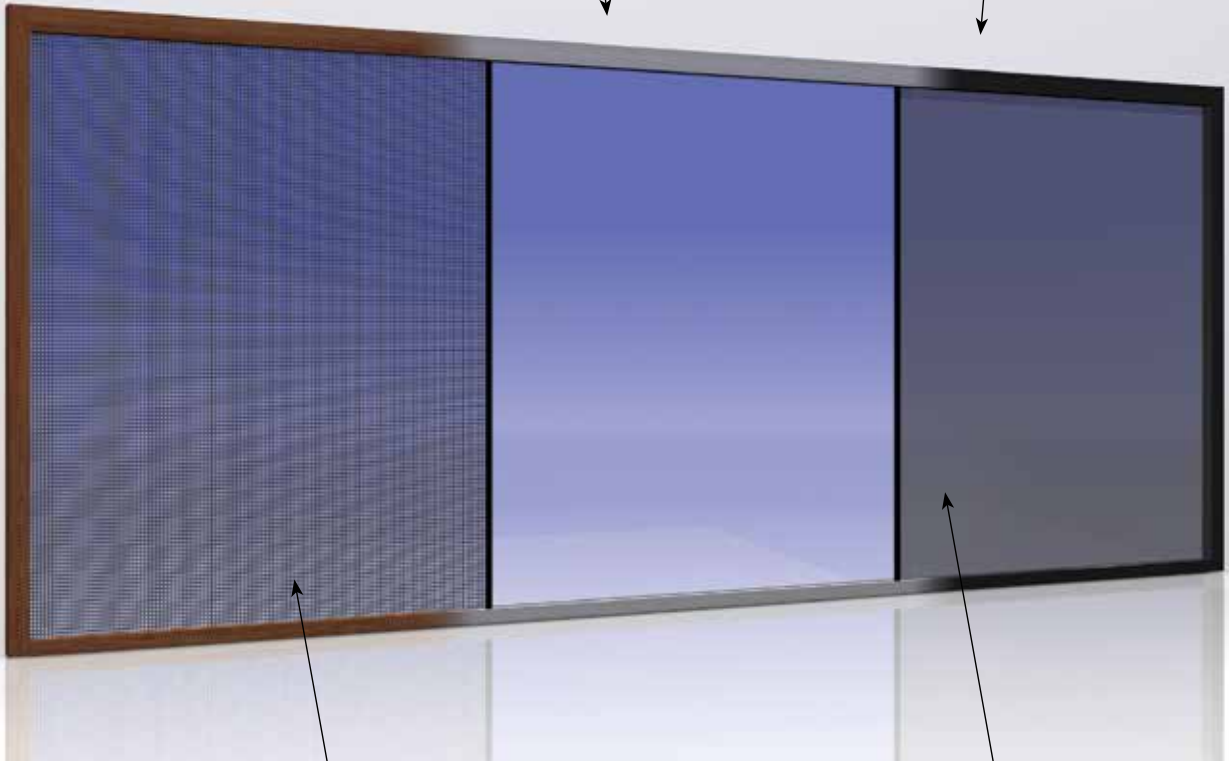
Select from Mahogany, VG Douglas Fir or Oak.

Standard Offering

White, bronze and clear anodized.

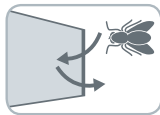
Paint

Contact Centor Customer Service for a range of custom paint colours.



Insect Screen

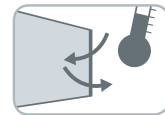
Flyscreen is made from hardwearing Polyester/PVC.



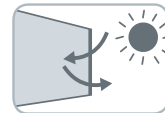
insect protection

Blind

Sun filter fabric made from Fibreglass/PVC is available in a range of colors.



control heat gain & loss



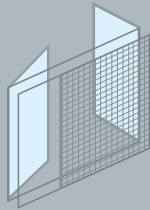
UV protection



projection screen

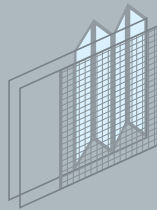
CHOOSE FROM INSECT SCREEN OR SOLAR CONTROL BLIND

USE WITH ANY DOOR OR WINDOW



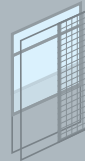
French Doors

S1E is an ideal solution for screening French doors. Use the screen and blind combination to solve two problems with one system.



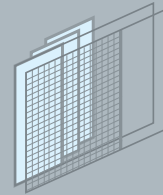
Bifold Doors

The Centor name remains synonymous with bifold door openings and S1E is ideally suited to use with the full range of Centor bifold systems.



Windows

Use S1E with banks of casement, double hung and bifold windows to complement the widest variety of homes and commercial premises.



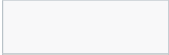
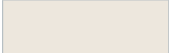


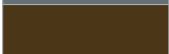
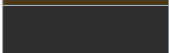
Sliding Doors

Large sliding doors and stacker doors are an ideal application for S1E. Very large openings can be effortlessly accommodated by an S1E double unit.

FABRIC CHOICES

Fabric	Colour	Fabric Code	Colour Code	Openness	Solar Transmittance	Solar Reflectance	Solar Absorbance	Visual Transmittance
--------	--------	-------------	-------------	----------	---------------------	-------------------	------------------	----------------------

Sun Filter 5%, Fibreglass/PVC

	White	105	02	5%	20	67	13	16
	Sand	105	10	5%	18	61	21	13
	Light Grey	105	20	5%	13	49	38	11
	Dark Grey	105	60	5%	7	9	84	7
	Dark Brown	105	70	5%	6	7	87	6
	Charcoal	105	90	5%	6	4	90	6

Fabric	Colour	Fabric Code	Colour Code	Openness	Aperture Size	Strands Per Inch
--------	--------	-------------	-------------	----------	---------------	------------------

Insect Screen, Polyester/PVC

	Charcoal	055	90	55%	1.4 x 1.7	16 x 14
---	----------	-----	----	-----	-----------	---------

Please note that swatches are a representation only and may not match colors exactly.

CORROSION & IMPACT TESTED SIMULATING REAL LIFE USE



BUILT TOUGH AND TESTED

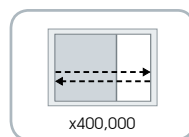
In developing the S1E, Centor's designers have catered for anything that modern life might throw at this sturdy product.

Materials

S1E is manufactured in a combination of aluminium, stainless steel, brass and reinforced engineering polymers. The blind is available in sun filter fabric. The tough PVC-coated polyester screen mesh is hardwearing and resistant to damage caused by pets and children.

Testing

The S1E Eco-Screen™ has undergone cyclic testing to 400,000 operations in a laboratory and extensively exposed to dust, mud, sand and corrosive atmosphere to ensure it is a product for the real world. It has withstood impact testing with a 38lb punching bag 100 times and considerable pushing, poking and prodding to simulate real life usage.



Screen Maintenance

The insect screen material should be cleaned with a soft brush or a damp soft cloth, while the sun filter fabric should be cleaned with warm soapy water and a soft cloth.

Tracking should be regularly cleaned to prevent the build-up of dirt and debris. A vacuum cleaner fitted with a nozzle is effective.

Operating mechanisms are fully self contained and do not require maintenance other than keeping clear of dirt and debris.

Warranty

Centor offers a 5 year limited warranty on its S1E Eco-Screen™.



SOLAR CONTROL BLIND DOUBLES AS A PROJECTION SCREEN



PROJECTION SCREEN

The S1E solar control blind doubles as a projection screen for either indoor or outdoor viewing. Watch your favorite movie outdoors on a warm summer night, or enjoy your favorite sport with friends on the 'big screen'.

Centor's Load Balancing Technology™ enables the blind to be left partially open, allowing visitors to pass through the door way without the hassle of opening and closing the blind.

WONDERFUL SCREENING IS MORE IMPORTANT THAN WONDERFUL DOORS

James Russell, James Russell Architect



James Russell
James Russell Architect

Leading architect James Russell's private home won major awards and was featured in leading Australian and international magazines, but it wasn't quite finished until he made the final adjustments three years after the home was completed.

The inner-Brisbane home, created between two heritage-listed buildings on what was once an old car park, is full of unique touches including a central open air grassed courtyard surrounded by rooms and living space.

"When I designed the house there was nothing available that screened the opening to the courtyard without being invasive. It was important that nothing obstructed the relationship between the house and the open outdoor space." James said.

The availability of the screening system from Centor three years later excited James so much he reemployed the builders to make some adjustments.

As they can be fitted to any existing door or window, James was able to design them into his existing home with minimal adjustments made to the foundations.

"Builders removed small sections of timber and flooring to install the tracks and storage space for the screens.

"As there are no panels or mullions in the screens there is nothing to impair the view or break up the scene."

James feels the screens are almost unnoticeable. "After you've looked into the courtyard there is no memory of the screens you have just looked through. Even inside, we feel we are living in a veranda space," James said.

James' screens are 4.35 metres wide and 2.4 metres high and are located at both ends of his courtyard, protecting the kitchen area at one end and the living space at the other.

"Because we didn't need the screens for security, only comfort, we hope to leave them open for nine months of the year."

With the Queensland summer months being a favorite for mosquitoes after dark, James finds the screen invaluable in protecting his family when needed.

The system is also easy for James' young family to use. "It slides effortlessly with one finger allowing you to control the house and still enjoy the breezes, fresh air and outside noises."

"There is a trend to use big doors and this creates a need for security and the weather to be managed in another way, so that the doors aren't always being opened and closed.

"Wonderful screening is more important than wonderful doors. Prior to the arrival of the Centor screen, I couldn't find nice clean screening that also kept the house open."

James' home won the Robin Dods Award for Residential Architecture at the Queensland Architecture Awards in 2006 and went on to place second nationally. His seven year old business is renowned for designing unique residential homes which blend with Australia's tropical lifestyle.

THE OPTION OF 'LIVING OUTDOORS' IS NOW FULLY PROTECTED

Shawn Godwin, Base Architecture



Shawn Godwin
Base Architecture

Leading architect, and founder and director of Base Architecture, Shawn Godwin, has just installed the new S1E Eco-screen™ from Centor in his own home and sees enormous potential for the screen and blind system in the home and in buildings he designs.

"This system solves all our problems. We push the blind across to protect us from the early morning sun and open it to enjoy the outdoors.

"The industry has been looking for this sort of system for some time. Blinds have always been an issue for architects ensuring they won't clash with windows when open, or look like some clunky add on. These just disappear. They are brilliant.

"The science and research behind opening and closing the Centor screens and blinds is more sophisticated than anything available.

"The very idea of a screen is that you don't want to see the window or door mechanism. Centor's screens are clean-lined and concealed and aesthetically very pleasing.

"In the Australian climate everyone wants to live outdoors but when we design houses that bring in the outdoors they also bring in unwanted sun, insects and prying eyes.

"Privacy and protection from insects and sun has to date meant changing the whole dynamics of the look and feel of the design. The Centor blind and screen combinations change all that. They allow the building to stay true to its outdoor design.

"The option of living outdoors is now fully protected.

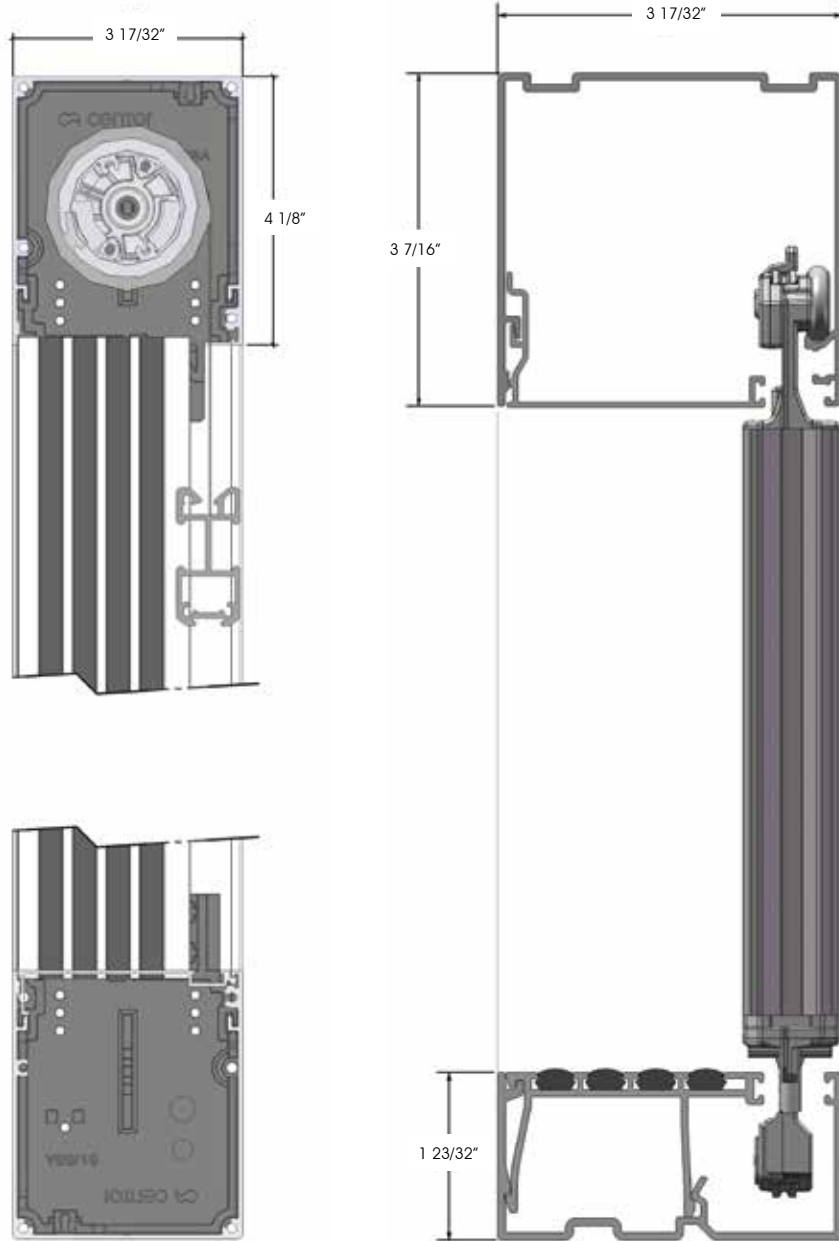
"The traditional media room design is changing and increasingly includes windows. The Centor system not only blocks out the light it becomes an option for a projector screen.

"Without products like the Centor screens and blinds it is hard for some of our designs to get sold to the market. It is clearly the best system around.

"Combined with new glazing options that emit heat, the S1E Eco-screen™ can be explored for full solar reflector benefits.

"This system solves all the problems. The Centor S1E system fits all needs."

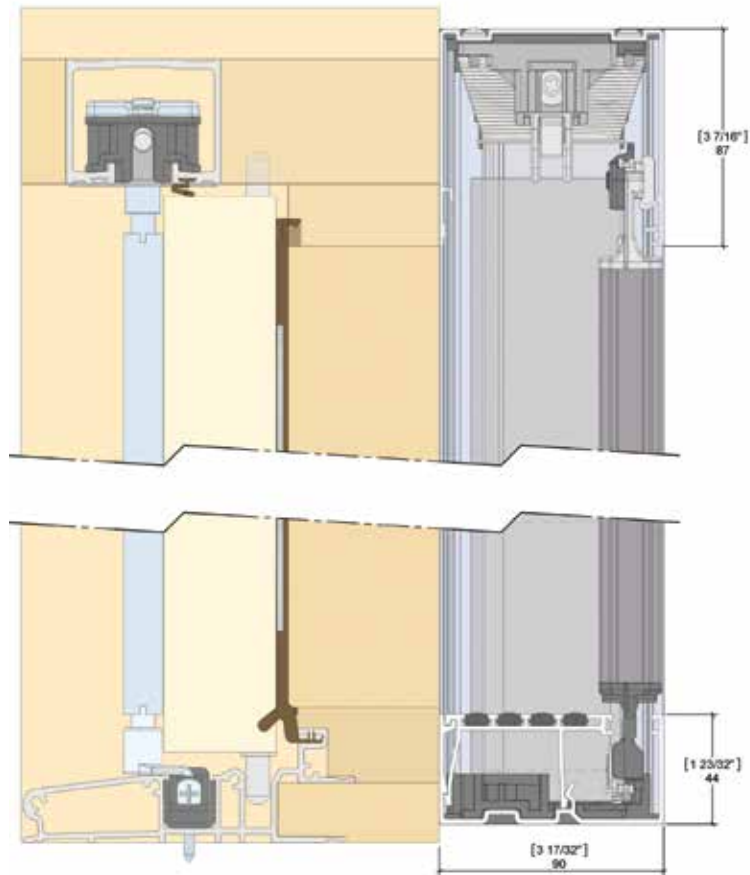
SECTIONAL SIDE VIEW



Screen roll omitted in drawing for clarity

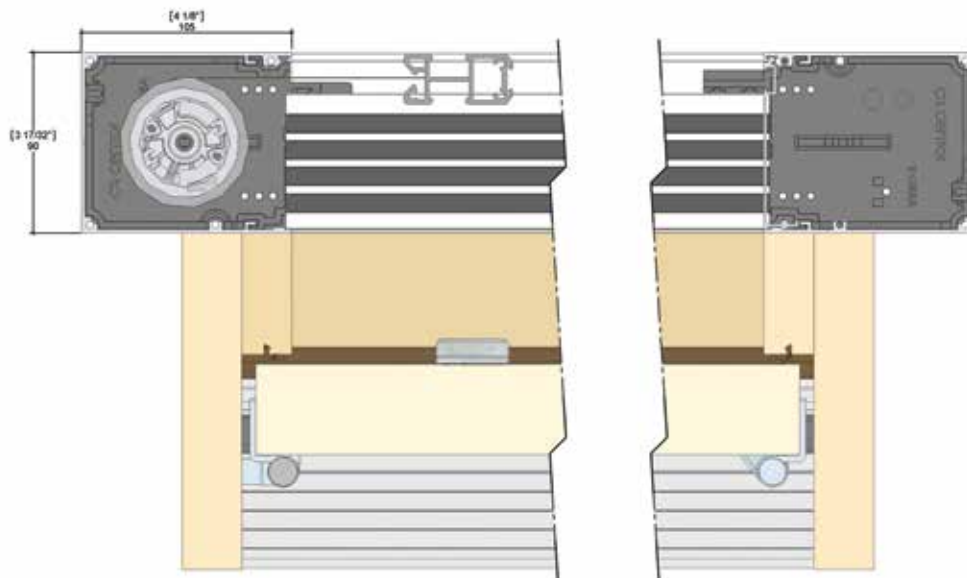
ARCHITECTURAL DETAIL / SIE WITH FOLDING SYSTEM

Head and Sill Detail



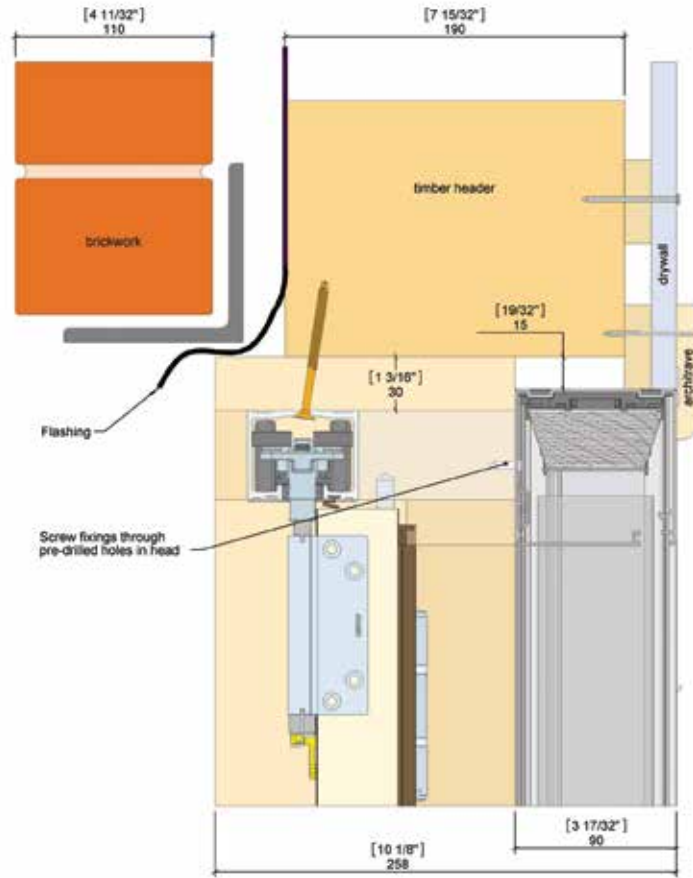
ARCHITECTURAL DETAIL / SIE WITH FOLDING SYSTEM

Jamb Detail



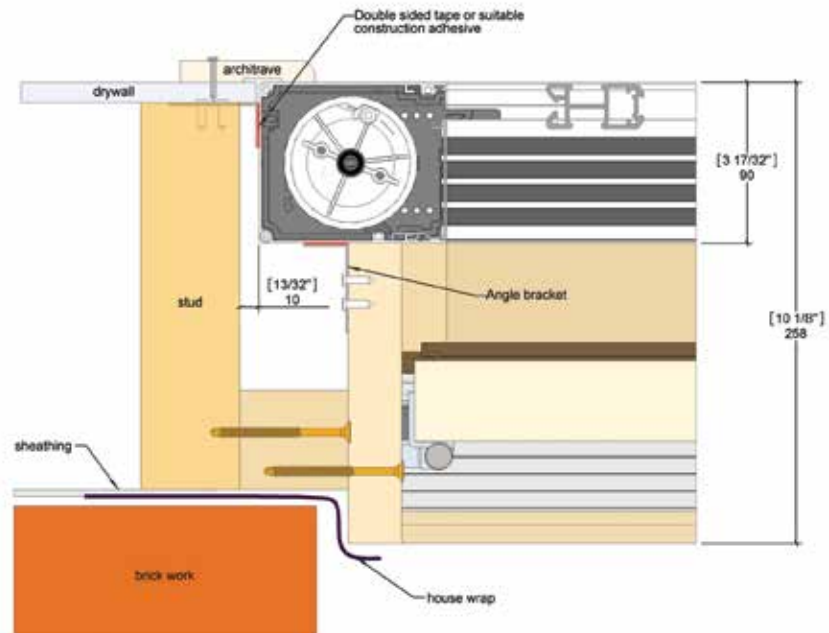
ARCHITECTURAL DETAIL / S1E WITH FOLDING SYSTEM

Brick Veneer – Head



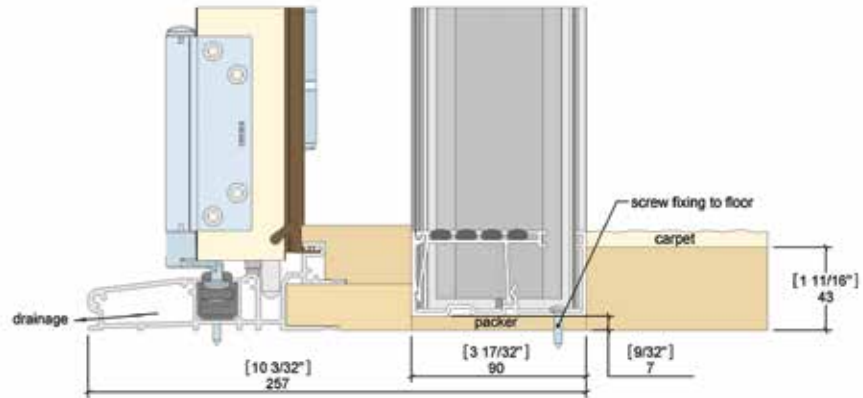
ARCHITECTURAL DETAIL / S1E WITH FOLDING SYSTEM

Brick Veneer – Jamb



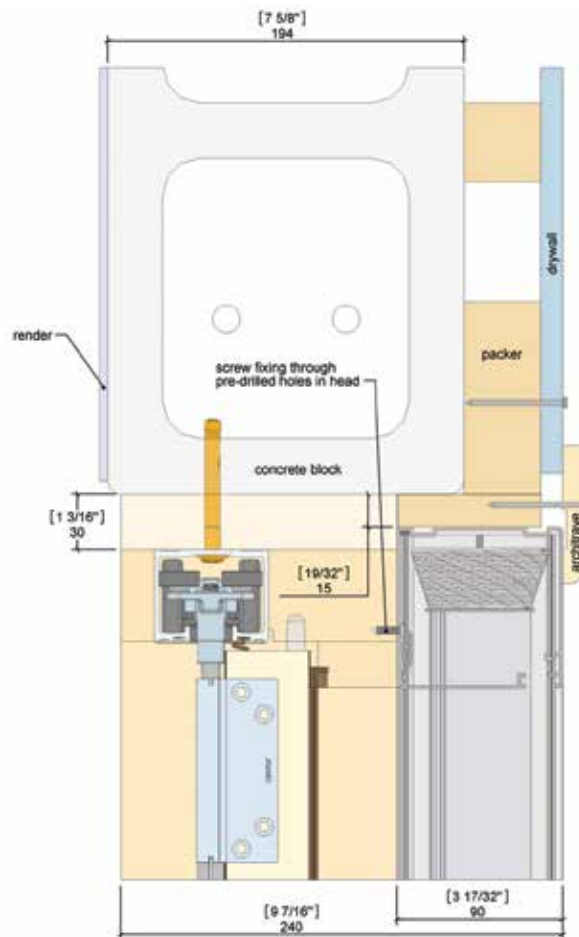
ARCHITECTURAL DETAIL / SIE WITH FOLDING SYSTEM

Brick Veneer – Sill



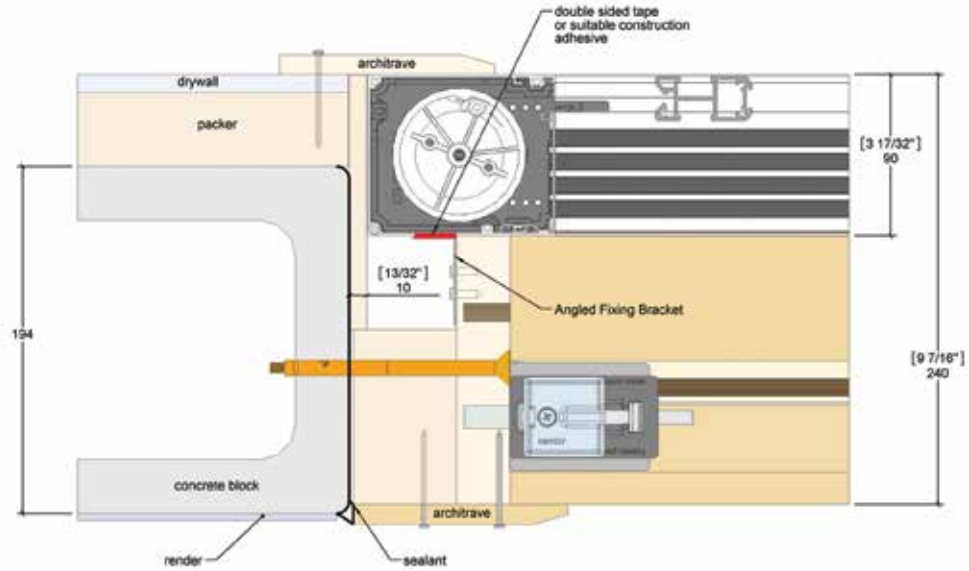
ARCHITECTURAL DETAIL / SIE WITH FOLDING SYSTEM

Concrete Block – Head



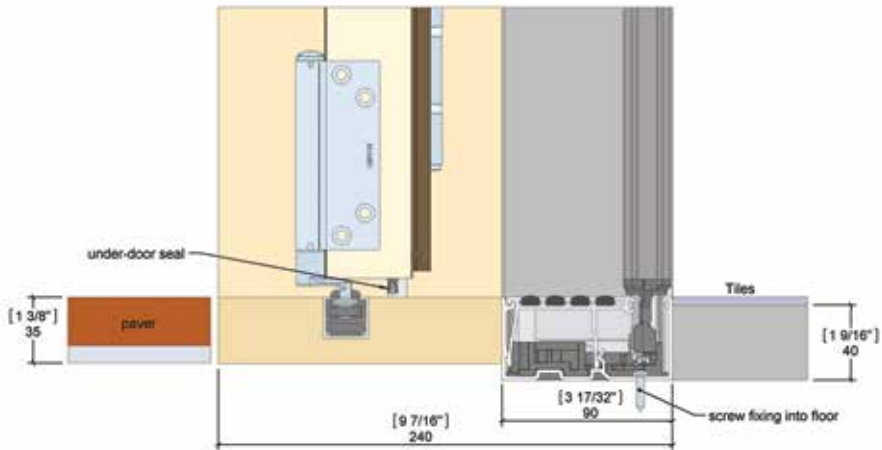
ARCHITECTURAL DETAIL / S1E WITH FOLDING SYSTEM

Concrete Block – Jamb



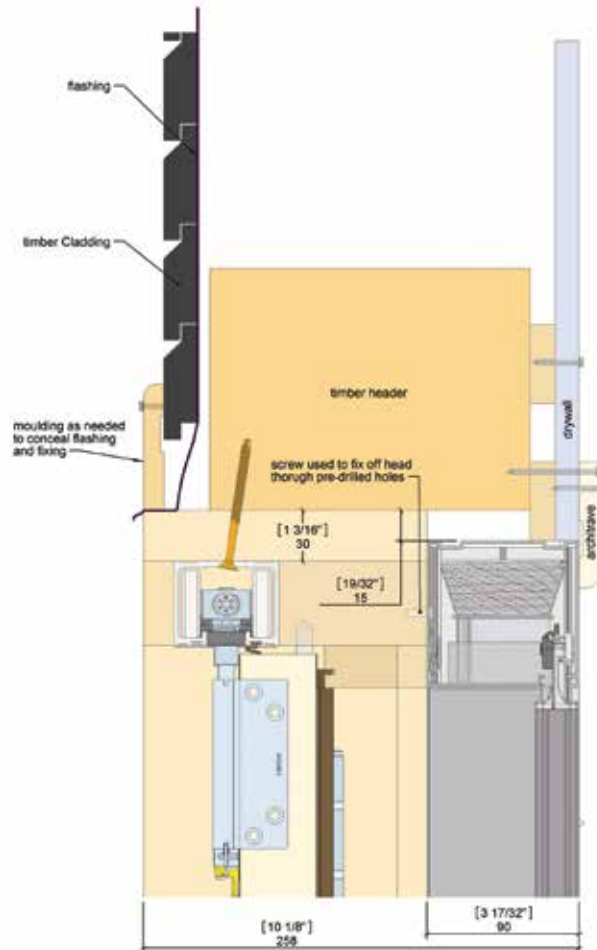
ARCHITECTURAL DETAIL / S1E WITH FOLDING SYSTEM

Concrete Block – Sill



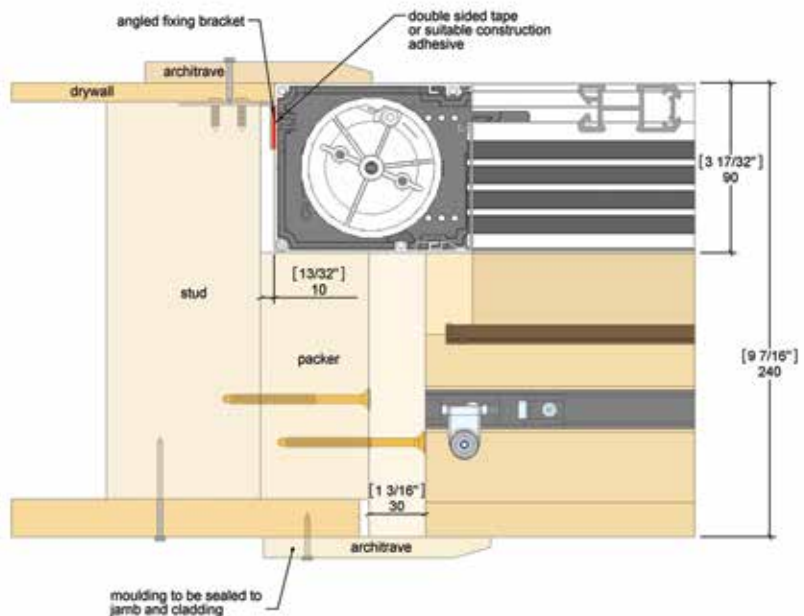
ARCHITECTURAL DETAIL / S1E WITH FOLDING SYSTEM

Timber Cladding – Head

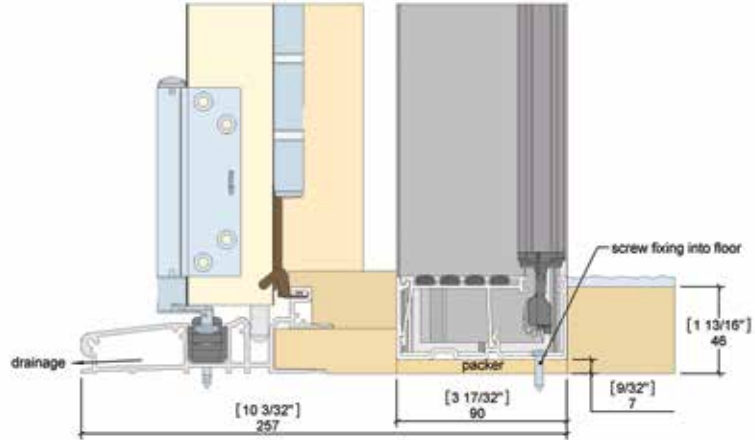


ARCHITECTURAL DETAIL / S1E WITH FOLDING SYSTEM

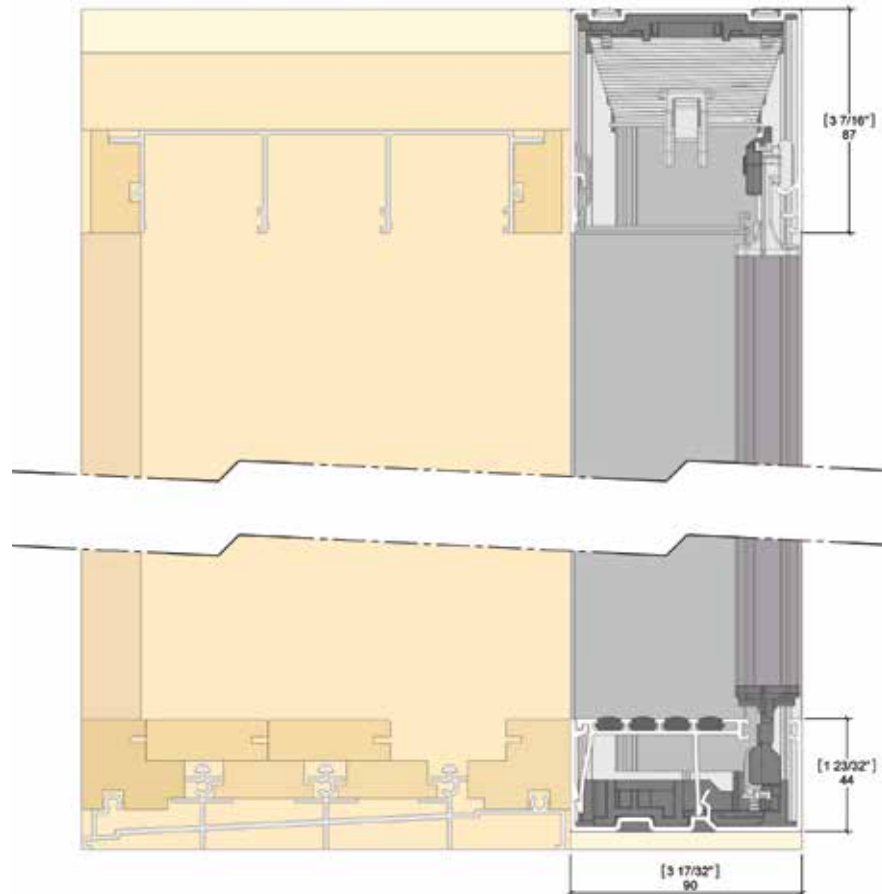
Timber Cladding – Jamb



ARCHITECTURAL DETAIL / S1E WITH FOLDING SYSTEM
Timber Cladding – Sill

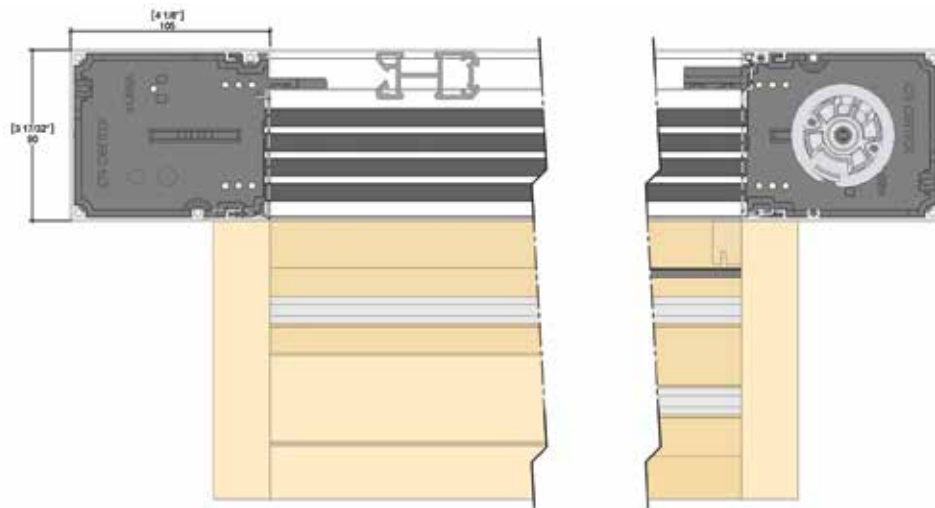


ARCHITECTURAL DETAIL / S1E WITH SLIDING SYSTEM
Head and Sill Detail



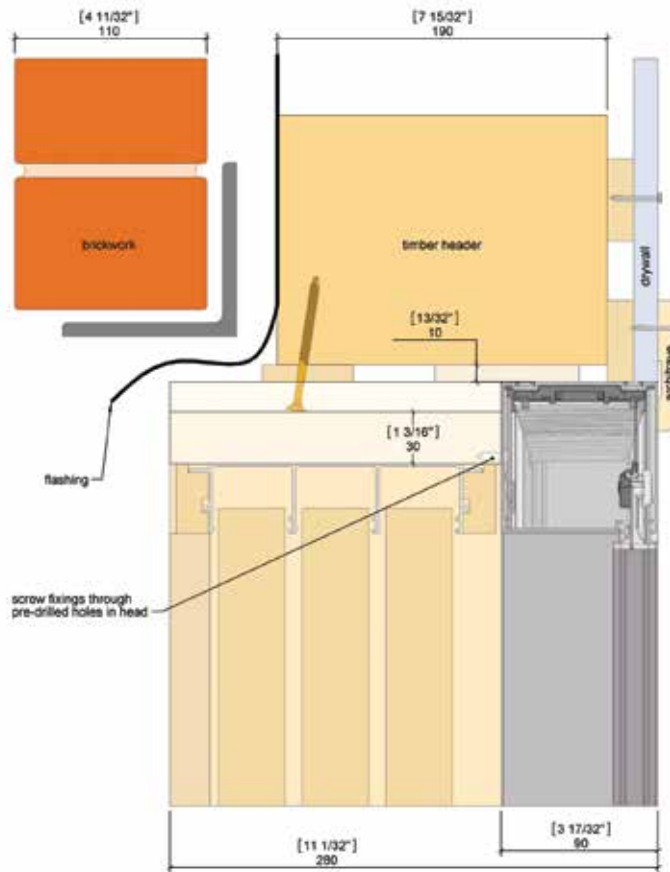
ARCHITECTURAL DETAIL / S1E WITH SLIDING SYSTEM

Jamb Detail



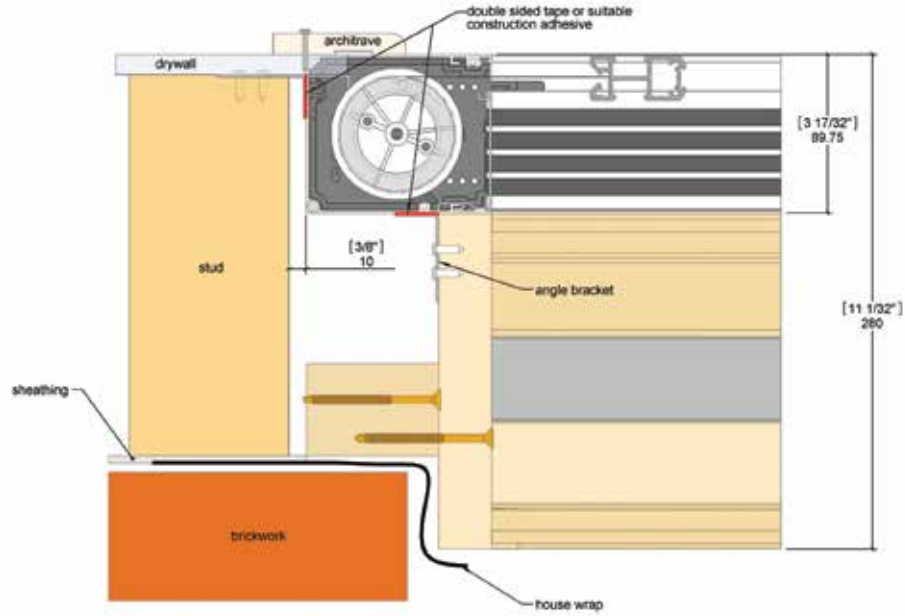
ARCHITECTURAL DETAIL / S1E WITH SLIDING SYSTEM

Brick Veneer – Head



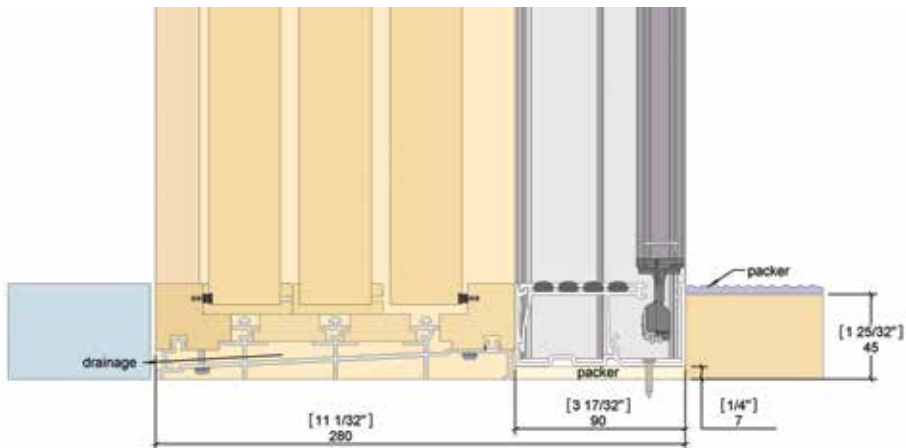
ARCHITECTURAL DETAIL / S1E WITH SLIDING SYSTEM

Brick Veneer – Jamb



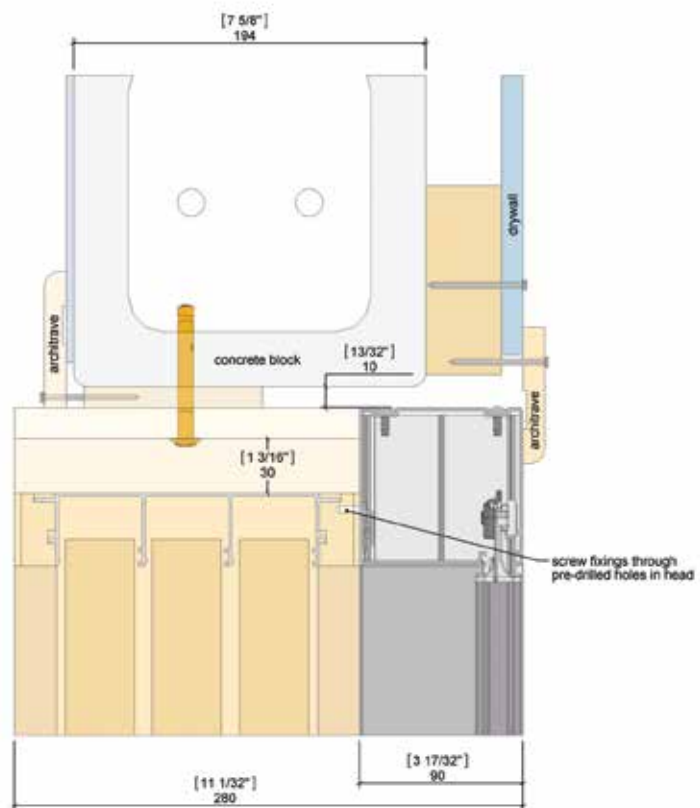
ARCHITECTURAL DETAIL / S1E WITH SLIDING SYSTEM

Brick Veneer – Sill



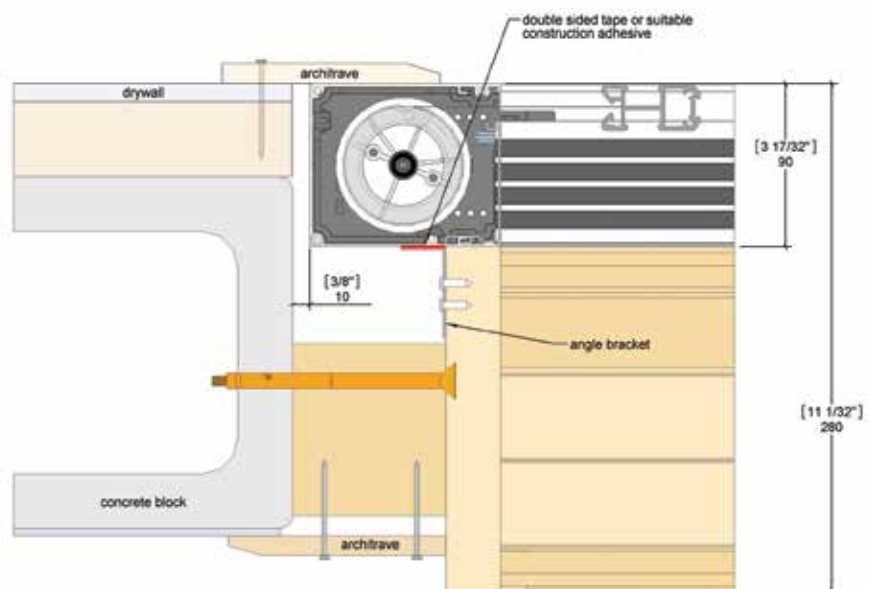
ARCHITECTURAL DETAIL / S1E WITH SLIDING SYSTEM

Concrete Block – Head



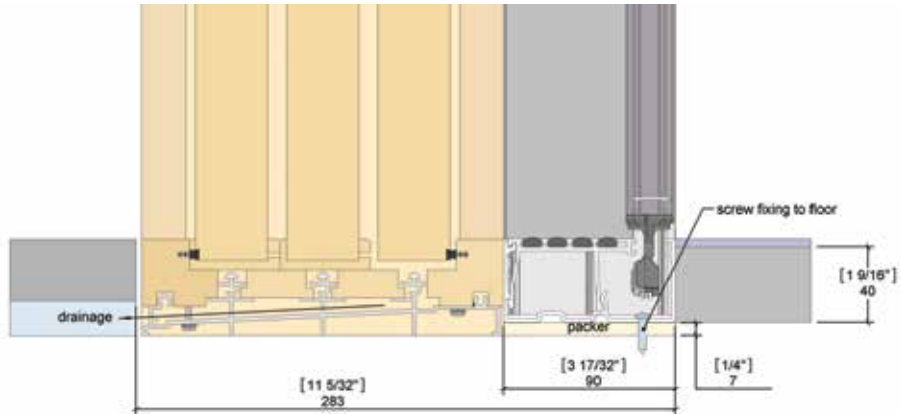
ARCHITECTURAL DETAIL / S1E WITH SLIDING SYSTEM

Concrete Block – Jamb



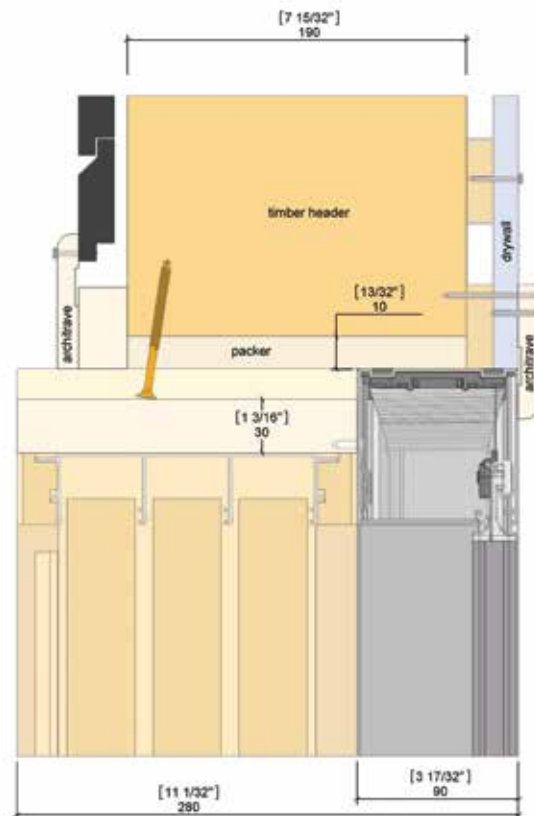
ARCHITECTURAL DETAIL / S1E WITH SLIDING SYSTEM

Concrete Block – Sill

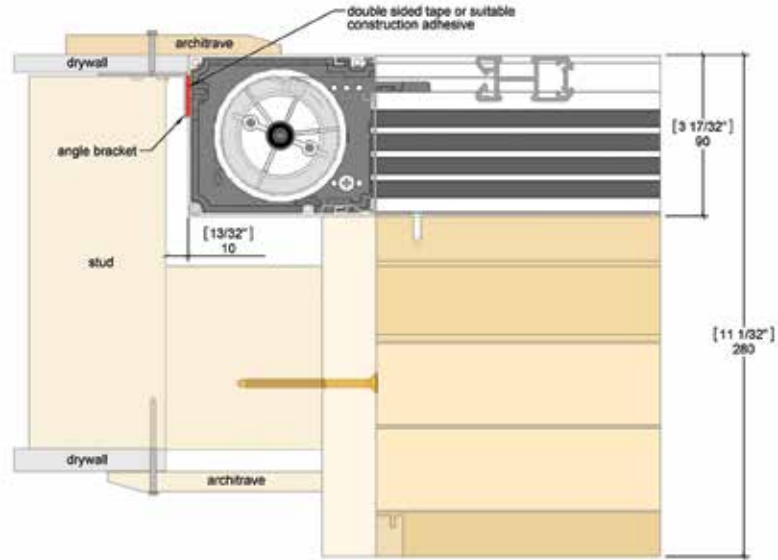


ARCHITECTURAL DETAIL / S1E WITH SLIDING SYSTEM

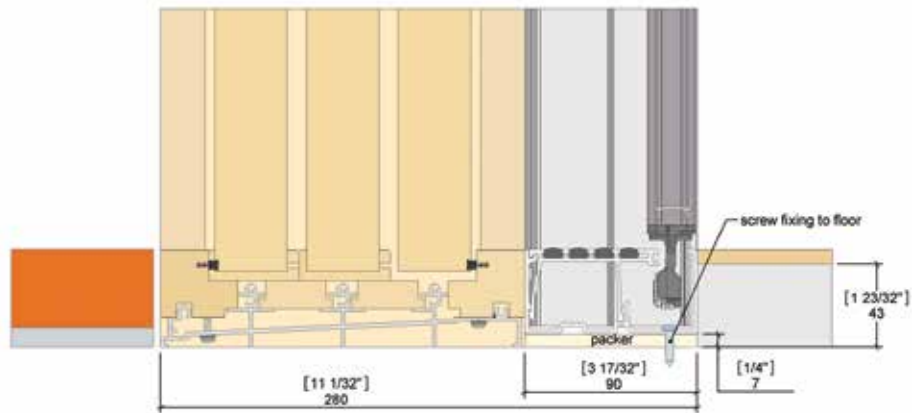
Timber Cladding – Head

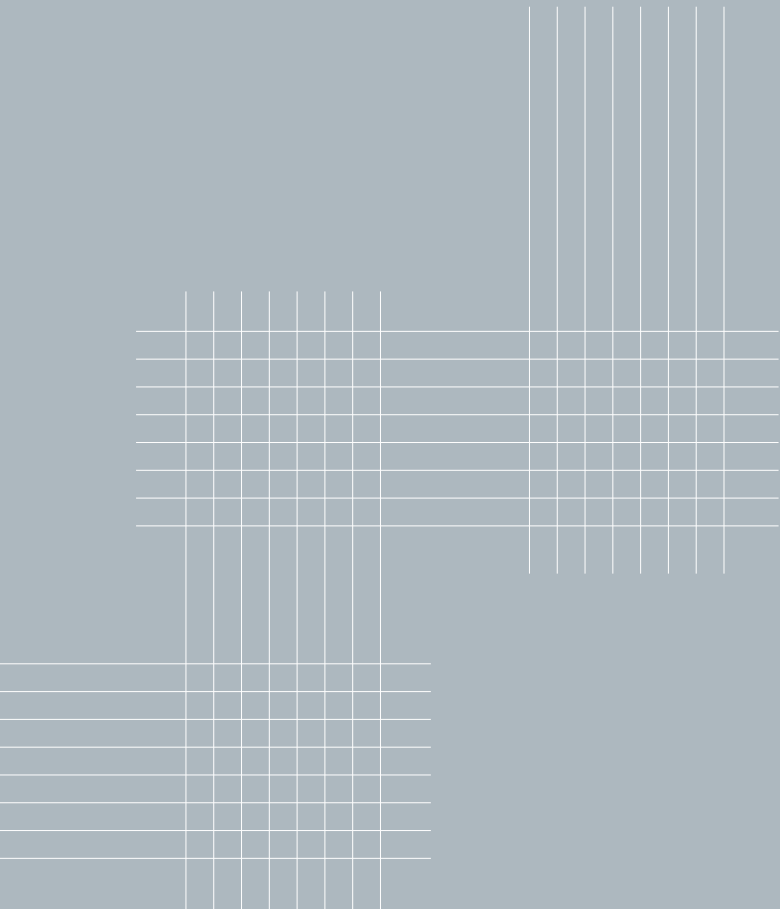


ARCHITECTURAL DETAIL / S1E WITH SLIDING SYSTEM
 Timber Cladding – Jamb



ARCHITECTURAL DETAIL / S1E WITH SLIDING SYSTEM
 Timber Cladding – Sill





While every effort has been made to ensure the accuracy of the information in this publication, Centor assumes no responsibility for errors or omissions or any consequences of reliance solely on this publication.



214-200-030-002



USA

Steel Windows & Doors USA
690 Surf Ave
Stratford, CT 06615
(203)-579-5157
info@steelwindowsanddoors.com
www.steelwindowsanddoors.com

centor®