SAGIREV INSTALLATION GUIDELINES

VERSIÓN EN ESPAÑOL

DECEMBER 1, 2024

VERSION 1.4

*UPDATES:

- Heat Shield Installation- Recessed Flush Mount Heater

WATCH OUR NEW INSTALL VIDEO

CLICK HERE

SAGIPER North America Inc.

18505 105 Ave NW

Edmonton, AB Canada

T5S 0K3

T: (780) 482-3445

F: 1 (888) 870-7069

www.sagipernorthamerica.com

INTRODUCTION

This guide has been prepared and intended for individuals with moderate to extensive knowledge of basic building practices. Appropriate protective eyewear should always be used when cutting. The warranty may be voided if proper application and installation practices are not followed.

Although relatively simple to install, SAGIREV requires compliance with some fundamental building practices described in this guide.

The information provided in this document is offered in good faith and believed to be reliable, but is made without warranty, express or implied, as to merchantability or fitness for a particular purpose. Readers should review this document in conjunction with their design professional's advice, construction drawings, manufacturer's technical literature, building code, and fire code. Sagiper North America Inc. does not assume any responsibility for the reader's compliance with applicable laws and regulations.

NOTE: IT IS RECOMMENDED BEST PRACTICE, ESPECIALLY ON COMMERCIAL AND MULTIFAMILY DEVELOPMENTS, TO ALWAYS HAVE AN ACCREDITED BUILDING DESIGN PROFESSIONAL PROVIDE WORKING SHOP DRAWINGS TO ENSURE A PROPER ASSEMBLY (SHEATING, FURRING SYSTEM , FASTENING & VENTILATION) IS DESIGNED TO PROVIDE CRITICAL BUILDING FUNCTIONS; SPECIFICALLY, MOISTURE MANAGEMENT, TEMPERATURE REGULATION, AIR FLOW & VENTILATION, ALL OF WHICH ARE CRITICAL TO THE OVERALL LONGEVITY AND PERFORMANCE OF OUR SAGIREV SOFFIT/CEILING SYSTEM.

SAGIREV Features and Properties

SAGIREV boards are extruded PVC, which is a thermoplastic resin and is one of the most widely used plastics in the world. PVC is highly resistant to cracking, twisting, and warping. Unlike wood, it will never rot or support mold or mildew, and is also impervious to insects.

SAGIREV Boards

SAGIREV boards are available in 4" (100 mm), 6" (150 mm), 8" (200 mm) with three total profiles, similar to traditional wood exterior tongue & groove or interior wood solid lumber panelling profiles. All board profiles are available in 12' (3,660 mm) and 19' (5,790 mm) nominal lengths. ***NOTE: each of the three SAGIREV profiles have a unique tongue & groove fitting and are therefore non-compatible with each other.**

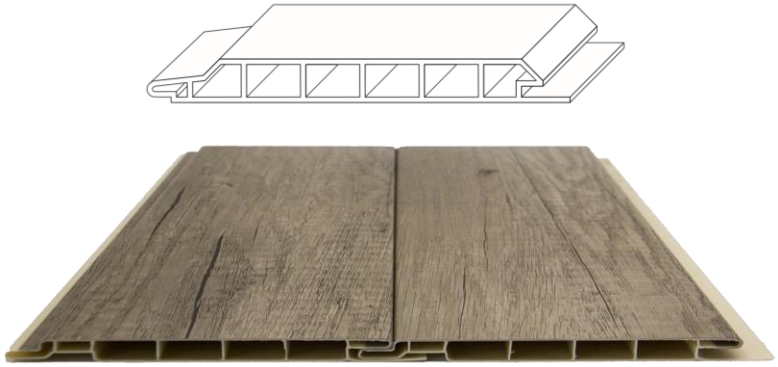

Figure 1, SAGIREV 4” (100 mm) x 10 mm thick V-Groove Board Profile

Figure 2, SAGIREV 6” (150 mm) x 10 mm thick V-Groove Board Profile

Figure 3, SAGIREV 8” (200 mm) x 10 mm thick Tongue & Groove Board Profile

SAGIREV Accessories/Trims

Sagiper offers SAGIREV accessory profiles & trims that enable the project to be completed that are coordinated, color matching, and specifically designed for SAGIREV boards.

Figure 4, SAGIREV J-Mold Trim

1-piece accessory, PVC with decorative film, 5/8” (17 mm) face width x ½” (12 mm) x 1 1/8” (30 mm) x 12’ (3,660 mm) long and 19’ (5,790mm) long.

Figure 5, SAGIREV H-Mold Trim

1-piece trim, PVC with decorative film, 1 1/8” (30 mm) face width x 12’ (3,660 mm) long and 19’ (5,790 mm) long.

Figure 6, SAGIREV Outside Corner Trim

1-piece trim, PVC with decorative film, 1” (24 mm) wing length x 12’ (3,660 mm) long and 19’ (5,790 mm) long. ***NOTE: INTERIOR USE ONLY**

Figure 7, SAGIREV Clip Crown Molding

2-piece accessory, PVC with decorative film, 1¼” (33 mm) x 1¼” (33 mm) x 12’ (3,660 mm) long and 19’ (5,790mm) long, composed of base and finishing cap.

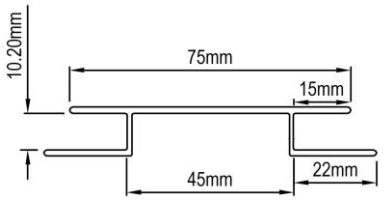


Figure 8, Vent Strip

1-piece accessory, PVC with decorative film, 5/8” (15 mm) flange width each side x 1 ¾” (45mm) perforated width x 12’ (3,660 mm) long. Coverage is 255 sq.in or 1.77 sqft of ventilation.



2-piece Aluminum J Mold Clip | 2-piece Aluminum Terminating J Mold Clip | 2-piece Aluminum H Mold Clip

2-piece accessory J Mold Clip, aluminum base and finishing cap with decorative film, 1 3/8” (35 mm) x 19’ (5,790 mm) long, composed of base and finishing cap.

2-piece accessory Terminating J Mold Clip, aluminum base and finishing cap with decorative film face and side, 1 3/8” (35 mm) x 19’ (5,790 mm) long, composed of base and finishing cap.

2-piece accessory H Mold Clip, aluminum base and finishing cap with decorative film, 2 3/8” (60 mm) x 19’ (5,790 mm) long, composed of base and finishing cap.

Sagiper Touch-Up Pen

WARNINGS AND SAFETY

Fire and Heat Sources

☐ All PVC products can be damaged by excessive heat. Keep a safe distance between SAGIREV and heat sources, such as fireplaces, barbeques, outdoor/patio heaters and fire tables.

***NOTE: ANY SAGIREV WARRANTY CLAIM THAT PRESENTS DAMAGE FOUND TO BE CAUSED BY EXPOSURE TO HEAT SOURCES, SUCH AS THE ONES LISTED, WILL BE AUTOMATICALLY DECLINED.**

Protection of Installer

Wear and use appropriate Personal Protective Equipment (PPE), take all necessary precautions to protect eyes, wear gloves as required to protect from sharp edges and corners. If exposure to air-borne particulates occurs wear an appropriate dust mask. The OHS Code describes further requirements.

GLOSSARY

Casing: Molding used to trim door and window openings at the jambs. Also referred to as "window surround", "door surround", or “brickmold”.

Channel: The recessed area of an accessory trim piece, where cladding boards are inserted. Channels can also refer to the entire trim piece itself, and are named for the letter of the alphabet their profile resembles (e.g., J-mold trim/J-trim, H-Mold Trim, etc.).

Course: A single row of boards, running the full length of the building; or in the case of a vertical installation, from top to bottom.

Face: The visible side of a board once the board is installed.

Face-Fastening: The action of fastening directly through the “face” side of a board (instead of fastening through the fastening flange). Face fastening is PROHIBITED for SAGIREV installations.

Flashing: A thin, impervious material (often metal) located around exterior wall openings, windows, doors and under/behind J-mold trim, to shed the draining water away from the building.

Mitre: A diagonal cut, beveled to a specific angle (usually 45°). Sometimes miter cuts are made to cladding or soffit boards, to provide a neater installed appearance.

Fastening Flange or Hem: The section of board or accessory where the fasteners are located.

Rip Cut: A cut made lengthwise on a board or trim.

Shim: A minor building material used to create a consistent plane on an uneven substrate, prior to installing boards or accessories. Also used to level or plumb a product during installation.

Soffit: The material used to enclose the horizontal underside of an eave, cornice, or overhang.

TRANSPORTATION AND STORAGE

Transportation

When transporting Sagiper products, keep the boxes flat, and support them along their entire length. When products arrive at the project site, inspect materials for accidental damage. Damaged products should not be installed. All damages must be noted on the Bill of Lading (BoL).

Storage

Store the boxes on a flat surface and support the entire length of the boxes. Keep the boxes dry. Store the boxes away from areas where falling objects or other construction activity may cause damage. Ensure the stacks of boxes are stable. If possible, store material inside of the building being constructed (i.e., garage, walk-out basement, front entry or parkades etc.)

WARNING

DO NOT store boxes in a location where temperatures may exceed 30°C (86° F) (e.g., in direct sunlight, on asphalt pavement during unusually hot weather or under dark tarps/plastic wraps without proper air circulation).

DO NOT store the boxes in stacks more than six (6) boxes high.

DO NOT store product outside for extended periods of time. If material needs to be stored onsite, ensure that it is being stored in a temperature controlled environment away from UV exposure.

***NOTE: PRODUCT MAY CURVE/WARP IF STORED UNINSTALLED OUTSIDE FOR EXTENDED PERIODS OF TIME AND SUBSEQUENT CURVING/WARPING OF PANELS WILL NOT BE COVERED UNDER WARRANTY IF PROPER STORAGE CONDITIONS ARE NOT FOLLOWED.**

TOOLS AND EQUIPMENT

Recommended Equipment

- ☐ Rubber mallet
- ☐ Chalk line
- ☐ Tape measure
- ☐ Framers square
- ☐ Power drill
- ☐ Level
- ☐ Mitre saw, carbide blade with 80+ teeth

Warning

DO NOT use pneumatic nailing guns or manual staplers to fasten SAGIREV boards. Pneumatic nailing guns and manual staplers frequently break the fastening flange, and typically apply too much pressure to allow the boards to expand/contract freely.

FASTENERS

Screws

Exterior Installations: Use an appropriate length, hot-dip galvanized steel or stainless steel #8 wafer head screw to fasten the boards through the fastening flange into wood substrate, or self-tapping #8 wafer head if fastening into steel or installing the SAGIREV aluminum 2-piece accessory base trims.

Figure 9, Wafer Head Screw

☐ Select screws with length to penetrate 1¼“(32 mm) into a solid substrate **MINIMUM**.

Warning *IMPORTANT*

Interior and Exterior Installations: DO NOT use pneumatic fasteners.

Exterior Installations:

DO NOT use SAGIREV boards on exterior wall applications. SAGIREV products are not engineered for this application therefore warranty is void. See SAGIWALL product line for exterior wall applications.

DO NOT butt joint Sagirev panels on exterior applications. An H-Mold trim must be utilized.

DO NOT use staples for exterior installations.

DO NOT use glue or adhesives of any kind to install the SAGIREV boards.

DO NOT use electroplated galvanized fasteners. The lifespan of SAGIREV is extremely long and the fasteners must have at least the same lifespan as the boards.

PREPARATION

Exterior Installations: Allow SAGIREV boards and accessories to completely acclimate to the outside temperature before beginning installation.

Interior Installations: Allow SAGIREV boards and accessories to completely acclimate to the typical interior room temperature before beginning installation.

Framing and Substrate Preparation

Verify all ceiling and soffit substrates are plumb, square, and even across their surfaces. If a surface is uneven, install shims to create a flat consistent substrate for the SAGIREV. The SAGIREV will follow and subsequently reflect any depth variance in the substrate.

WARNING

ANY BOWING OR WARPING OF THE SAGIREV PANELS DEEMED TO BE THE CAUSE OF AN UNEVEN SUBSTRATE, WILL NOT BE COVERED BY WARRANTY

Board Preparation

Prior to installation, ALL FACTORY BOARD/TRIM ENDS MUST BE CUT OFF. The factory board ends of all SAGIREV boards have minor alignment differences from the film fusion process. Sometimes the decorative film is

shorter or longer than the board core. This does not harm the product and boards are always slightly longer than specified length to account for this condition.

Wood Grain Patterns *IMPORTANT*

SAGIREV BOARDS ARE MANUFACTURED FROM A LARGE REPEATING PATTERN (48” X 48”), AND ARE PACKAGED SEQUENTIALLY. ALTHOUGH VARIANCE IN WOOD GRAIN PATTERN FROM BUNLDE TO BUNDLE IS LIKELY, SAGIPER NORTH AMERICA DOES NOT GUARANTEE AN EQUAL NUMBER OF VARIED BOARD PATTERNS PER ORDER. IT IS BEST PRACTICE TO PULL BOARDS FROM DIFFERENT BUNDLES THROUGHOUT THE COURSE OF INSTALLATION TO INCREASE THE LIKELIHOOD OF A RANDOMIZED AESTHETIC.

GENERAL INSTALLATION CONSIDERATIONS

Fasten every SAGIREV board at 16” (400 mm) on centre and when installing our 2-piece aluminum accessory trims, ensure backing is installed along the entire length of the base aluminum trim to provide sufficient support when engaging the male finishing cap with the female base.

***NOTE: INSUFFICIENT BACKING ALONG 2-PIECE ALUMINUM TRIMS WILL CAUSE A BOUNCING EFFECT AND IMPEDE THE MALE FINISHING CAPS FROM PROPERLY ENGAGING ITS CORRESPONDING BASE WHEN HIT WITH A RUBBER MALLET**

Maintain a **MINIMUM** distance of 3/8” (10 mm) to ½” (15mm) between the end of the SAGIREV board and the respective accessory aluminum base (H-Mold Trim, J-Mold Trim or Terminating J-Mold Trim). This will allow for the panel to expand and contract freely within the allowable space in the receiving accessory trim. An example is shown in Figure 10.

Figure 10, Section detail of SAGIREV soffit adjoining trim (2-piece Aluminum H-Mold Trim)

When a ceiling/soffit area is longer than a board length, be sure to symmetrically pre-plan the placement of a continuous H-Mold to join the two, or more, sections of SAGIREV panels together. Before installation of an H-Mold base Trim, install backing wider than the width of the base H-Mold Trim, in order to later receive the male finishing cap of the H-Mold Trim and provide a base for later fastening the SAGIREV board ends (see Figure 11).

***NOTE: ALL H MOLD TRIMS (1 AND 2 PIECES) MUST BE INSTALLED OVER SOLID SUBSTRATE TO PROVIDE ADEQUATE SUPPORT AND AVOID BUCKLING AND PREVENT BOUNCE EFFECT WHEN INSTALLING MALE FINISHING CAPS.**

(see Figure 11).

Figure 11, Details at soffit, H-Mold Trim

Important Temperature Considerations *** IMPORTANT** *

Exterior Installations: During the entire installation process, it's critical that each soffit component is allowed to freely expand and contract with the changes in temperature. Improperly installed components that restrict this expansion/contraction will buckle or warp. Unlike wood, SAGIREV will not swell when exposed to moisture.

Leave **MINIMUM** 3/8" to ½" on both board ends, to allow for thermal expansion, when installing in moderate to cool temperatures. Also, leave a clear space of 3/8" around other materials that penetrate the boards, such as recessed pot lights, and electrical outlets. Also, comply with the minimum clearance requirements of the electrical device. If the clearance requirements are different, provide the larger clearance.

Examples

☐ SAGIREV boards have a coefficient of thermal expansion/contraction of 5 x 10^{-5} m/(m°C). As an example, in a city that has a seasonal high-low temperature range of -30°C to +30°C, exterior boards will be exposed to a temperature change of 60 degrees Celsius in total. A nominal 19' (5,790 mm) long SAGIREV soffit board will experience a change in length seasonally of 11/16" (17 mm). This does not harm the product.

☐ As another SAGIREV soffit board example, in a city that has a seasonal high-low temperature range of -3°C to +25°C, the soffit boards will be exposed to a temperature change of 28 degrees Celsius in total. A 10' (3,050 mm) SAGIREV board will change 3/16" (4.5 mm) in length, when comparing the board length on the coldest day and warmest day. In this example, if the board is initially cut outdoors (at -3°C) then that board can be expected to only expand, and won't contract. These are important considerations for tetermining the appropriate gap allowance at board ends.

☐ Interior installations typically have consistent ambient air temperatures or small temperature variations. Typically the gap allowance at board ends can be nominal.

Warranty Considerations

Material Compatibility Issues

All PVC products are incompatible with asphaltic products, and must never be in direct contact with each other. If these materials are accidentally in contact, compounds from the asphaltic material will leach into the PVC product and weaken and/or discolour the PVC product. If an asphalt material touches a PVC product, it must be cleaned immediately or the surface could be permanently "stained". Solvents are not recommended for cleaning PVC. Fortunately, these situations are avoidable with proper planning, and are not valid cause for a warranty claim.

Code Compliance

The applicable Building Code and Fire Code are determined based on the project site location, and as there are many different codes in Canada and the USA, and as Building Codes are regularly updated, Sagiper North America can't address all code-related information in this guide. It is the responsibility of the project design authority, architect, installer, and/or contractor to understand the applicable codes for interior and exterior applications and install interior and exterior envelope products in accordance with those codes. The requirements of local Building Codes must always be observed, as a minimum requirement. Some code-related issues to consider include the following:

☐ For small buildings/residential the minimum attic ventilation requirements are indicated in Building Code.

☐ The required flammability qualities of soffit/ceiling materials and interior wall finishes materials are indicated in building code. SAGIREV is considered a combustible building material; the most current test results of Sagiper products are available on our website www.sagipernorthamerica.com.

Insulation & Weight Restrictions *** IMPORTANT ***

SAGIREV panels are aesthetic by design and are not engineered to carry any specific weight loads, such as insulation or any mechanical/electrical devices. When applying any weight load to the SAGIREV system, it is essential that adequate sheathing and/or back-framing be installed to properly support the weight, as per local building code requirements.

Cutting SAGIREV Boards

All PVC is softer in warmer temperatures and more brittle in colder temperatures. Generally, in colder temperatures push circular saws more slowly to avoid chipping the board. Use fine tooth blade (80 teeth or more) for mitre saw. Use a circular blade in reverse to cut for lights.

Venting

Proper ventilation of your SAGIREV soffit system is an integral part of the systems performance. Careful building considerations must be made when determining whether or not ventilation is required to avoid issues. The SAGIREV Soffit vent strip offers 255 sq/in or 1.77 sq/ft of ventilation per 12ft piece. **Adequate soffit ventilation is always recommended**. Please see Page 21 for important information regarding ventilation for your SAGIREV soffit system.

Tongue & Groove Fitting

It is critical to the performance of the SAGIREV soffit/ceiling system that all panels, and Vent Strips, are fully engaged at their tongue & groove connections. When installing, ensure adequate force is continuously applied to each panel as it is being fastened into place throughout.

HORIZONTAL/VERTICAL INSTALLATION AT INTERIOR WALLS

WARNING

DO NOT USE SAGIREV BOARDS ON EXTERIOR WALL APPLICATIONS. SAGIREV PRODUCTS ARE NOT ENGINEERED FOR THIS APPLICATION THEREFORE WARRANTY IS VOID. SEE SAGIWALL PRODUCT LINE FOR EXTERIOR WALL APPLICATIONS.

Step 1

Place a level guideline with chalk to all SAGIREV wall areas, where the bottom of the lowest board will be installed.

Step 2

Install J-Mold Trims at inside corners, where SAGIREV boards abut other wall finishes, at the perimeter of windows, doors, and other materials penetrating SAGIREV boards.

Step 3

Install the lowest course of boards, through the fastening flange. Fasten the boards through the tab at each stud 16" (400 mm) on center. If the boards are being fastened directly to a solid surface (e.g. plywood) fasten 16" (400 mm) on center. Install a few additional board courses, and check that the boards are level. Check the ends of adjacent boards align horizontally (a board should not be noticeably higher or lower than the adjacent board).

Install the remaining boards. Every few courses check for level and that adjacent boards are aligned horizontally.

Step 4

Where two walls meet at a corner, install the boards on the first wall. Fit the receiving end of the outside corner into the SAGIREV boards already fastened to the wall. Boards on the opposite wall can now be fit into the other end of the corner. The corner is friction fit. For additional adhesion, a small bead of PL Premium (or another interior-grade adhesive) can be applied to the inside track of the outside corner.

Step 5

Install H-Mold Trims vertically, located at the ends of each horizontal board where required. Butt joints on interior applications are acceptable, as interior temperatures are controlled and expansion/contraction tends to be minimal.

Step 6

Install all of the corresponding finishing caps for the SAGIREV system (Clip Crown Molding, J's & H's) as applicable.

FOR FURTHER INSTALLATION RELATED QUESTIONS OR ADVICE, PLEASE FEEL FREE TO CONTACT OUR TECHNICAL SUPPORT TEAM AT:

1 866 724 4737

1 866 SAG IPER

INSTALLATION AT INTERIOR CEILINGS

SAGIREV can be installed as a ceiling finish by installing it directly to a gypsum board ceiling, installing it to ceiling furring/strapping, or installing it to the face of a suspended T-bar/drywall hanging system.

*** IMPORTANT ***

SAGIREV panels are aesthetic by design and are not engineered to carry any specific weight loads, such as insulation or any mechanical/electrical devices. When applying any weight load to the SAGIREV system, it is essential that adequate sheathing and/or back-framing be installed to properly support the weight, as per local building code requirements.

Step 1

If installing SAGIREV onto a ceiling with furring/strapping, install furring 16” (400 mm) on center, perpendicular to the direction that the SAGIREV boards will be installed.

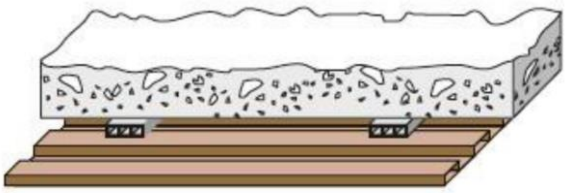

Figure 14, Diagram of ceiling furring and perpendicular SAGIREV boards

Step 2

Install 1 piece PVC J-Mold Trims, or the base of the aluminum 2-piece J mold trim/PVC clip crown mold, where SAGIREV boards abut other ceiling materials, at the perimeter of the ceiling area, and where other materials penetrate SAGIREV boards (such as recessed light fixtures, diffusers, speakers etc.). J-Mold Trims are not required if the fixture has its own trim that covers the board ends. Always ensure adequate backing is installed to support the weight of any integrated fixture.

Step 3

Install the first course of boards, fastening through the fastening flange. Fasten the boards at each furring/strapping 16" (400 mm) on center. If the boards are being fastened directly to a solid surface (e.g. plywood) fasten 16" (400 mm) on center. When installing the SAGIREV boards directly over drywall or sheathing, ensure that the fasteners are long enough to penetrate 1 ¼” into the substrate, at a minimum (studs or tracks of drywall hanging grid system). Install a few additional board courses, and check that the boards are consistently perpendicular or parallel to the adjacent wall plane. Install H-Mold Trims at board end-to-board end connections. Butt joints on interior applications are acceptable, as interior temperatures are controlled and expansion/contraction tends to be minimal.

Install the remaining boards. Every few courses check for consistent alignment with the adjacent wall plane.

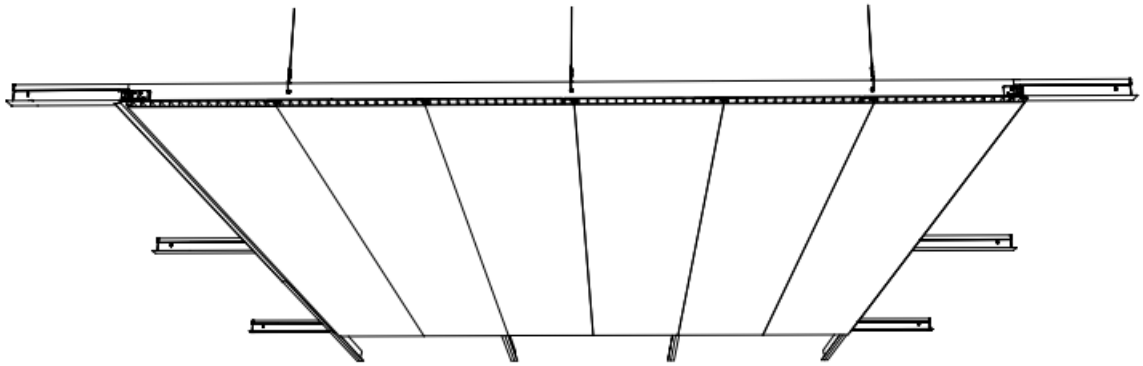

Figure 15, Diagram of SAGIREV board installed on to T-bar suspension system

Step 4

Install the last SAGIREV board with the J-Mold Trim.

Install all of the corresponding finishing caps for the SAGIREV system (Clip Crown Molding, J's & H's) as applicable.

FOR FURTHER INSTALLATION RELATED QUESTIONS OR ADVICE, PLEASE FEEL FREE TO CONTACT OUR TECHNICAL SUPPORT TEAM AT:

1 866 724 4737

1 866 SAG IPER

INSTALLATION AT EXTERIOR SOFFITS

Step 1

Install 1 piece PVC J-Mold Trims, or the base of the aluminum 2-piece J mold trim/PVC clip crown mold, along the perimeter of the soffit area, where applicable. J-Mold Trims are not required if the fixture has its own trim that covers the board ends. Always ensure adequate backing is installed to support the weight of any integrated fixture.

Step 2

When a ceiling/soffit area is longer than a board length, be sure to symmetrically pre-plan the placement of a continuous H-Mold to join the two, or more, sections of SAGIREV panels together. Before installation of an H-Mold base Trim, install strapping with at least the same width as the base H-Mold Trim, in order to later receive the male finishing cap of the H-Mold Trim and provide a base for later fastening the SAGIREV board ends.

***NOTE: ALL H MOLD TRIMS (1 AND 2 PIECES) MUST BE INSTALLED OVER SOLID SUBSTRATE TO PROVIDE ADEQUATE SUPPORT AND AVOID BUCKLING AND PREVENT BOUNCE EFFECT WHEN INSTALLING MALE FINISHING CAPS.**

Step 3

Install the first course of boards, fastening through the fastening flange. Fasten the boards at each joist/rafter at 16" (400 mm) on center, ensuring a **MINIMUM** of 3/8” to ½” is left at both board ends to allow for expansion/contraction. When installing the SAGIREV boards directly over a solid surface (plywood or sheathing), ensure that the fasteners are long enough to penetrate 1 ¼” into the supporting substrate, at a minimum. Install a few additional board courses, and check that the boards are consistently perpendicular or parallel to the adjacent wall plane. Check the proper gap allowances are maintained at the ends of each board within each course.

Install the remaining boards. Every few courses check for consistent alignment with the adjacent wall plane.

Step 4

The SAGIREV Vent Strip can be installed in either perpendicular or parallel SAGIREV soffit applications.

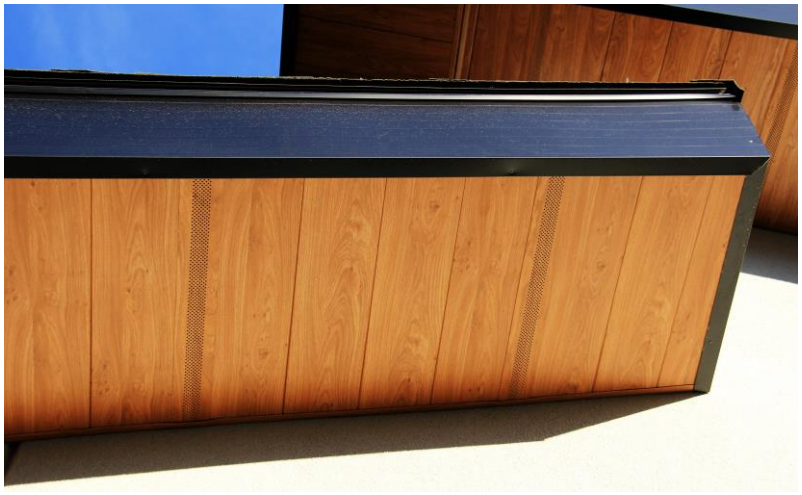

Figure 16, Soffit with SAGIREV Vent Strips, perpendicular application

Figure 17, Soffit with SAGIREV Vent Strips, parallel application

Step 4a

Install the first SAGIREV soffit board and fasten to the substrate. (See Figure 18 and Figure 19)

Figure 18

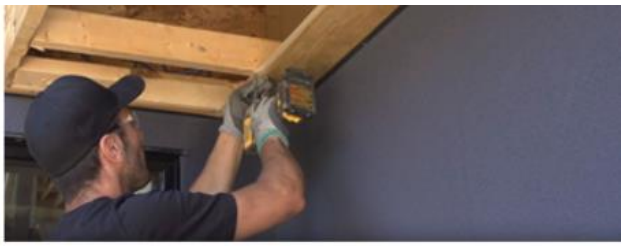

Figure 19

Step 4b

For both parallel and perpendicular applications, the SAGIREV soffit board that will receive the "J" end of the Vent Strip, must have its fastening flange ripped with a utility knife on the groove edge. This will allow the soffit board to sit snug within the "J" end of the SAGIREV Vent Strip. (See Figure 20)

***NOTE: WHEN PLANNING THE LOCATION OF THE VENT STRIPS, ENSURE THAT THEY DO NOT FALL IN LINE WITH ANY FIXTURES TO AVOID INTERFERENCE WITH THE PROPER GASKET SEALING OF FIXTURES.**

Figure 20, Remove fastening flange

Step 4c

The SAGIREV Vent Strip will then be fitted along the groove edge of the SAGIREV board (ensuring that the SAGIREV board is fully inserted into the groove of the Vent Strip) and fit tongue to groove with the SAGIREV soffit board already fastened into place. (See Figure 21). Leave 1/8” on both ends of the Vent Strip away from the corresponding trim.

***NOTE: THE SAGIREV VENT STRIP IS EXTRUDED WITH A THICKER GAUGE OF PVC THAN THE J MOLD OR H MOLD TRIMS; THEREFORE, IT IS NOT RECOMMENDED THAT THE VENT STRIP BE TUCKED INTO THE CORRESPONDING J OR H TO AVOID AESTHETIC BULGING.**

Figure 21

Step 4d

Once the board with the SAGIREV Vent Strip, is fit into place, fasten the longer end of the SAGIREV Vent Strip to the stud/rafter substrate. (See Figure 22)

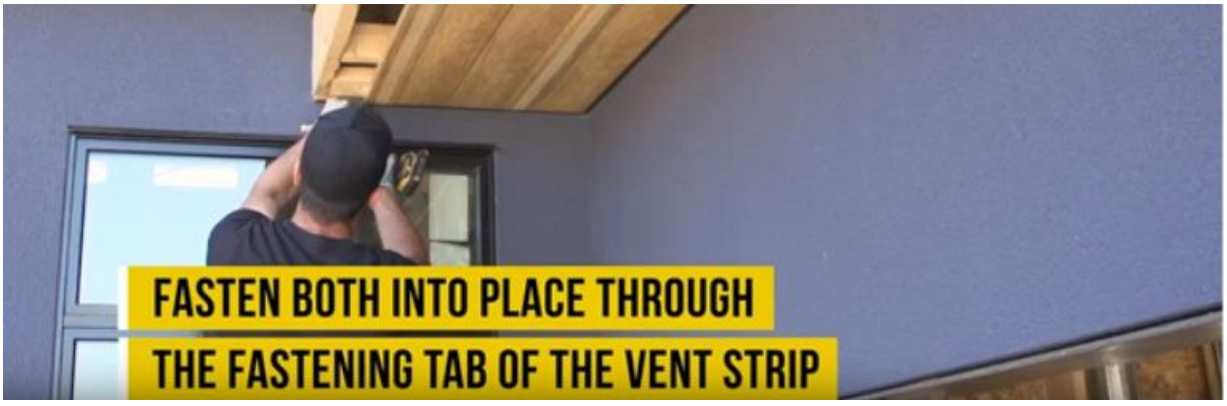

Figure 22

Step 4e

Use the fastened end of the SAGIREV Vent Strip to receive the next SAGIREV soffit board, continue the remainder of the soffit installation and cap outside end with aluminum fascia to complete install. (See Figure 23)

***NOTE: IF A BOARD FASCIA IS USED RATHER THAN AN "L" SHAPED FASCIA, IT MUST OVERHANG THE SOFFIT SUBSTRATE BY AT LEAST ½" AND A SAGIREV J MOLD TRIM (1 PIECE PVC OR 2 PIECE ALUMINUM) ALONG THE OUTSIDE PERIMETER MUST BE UTILIZED TO FINISH AND SECURE THE SYSTEM.**

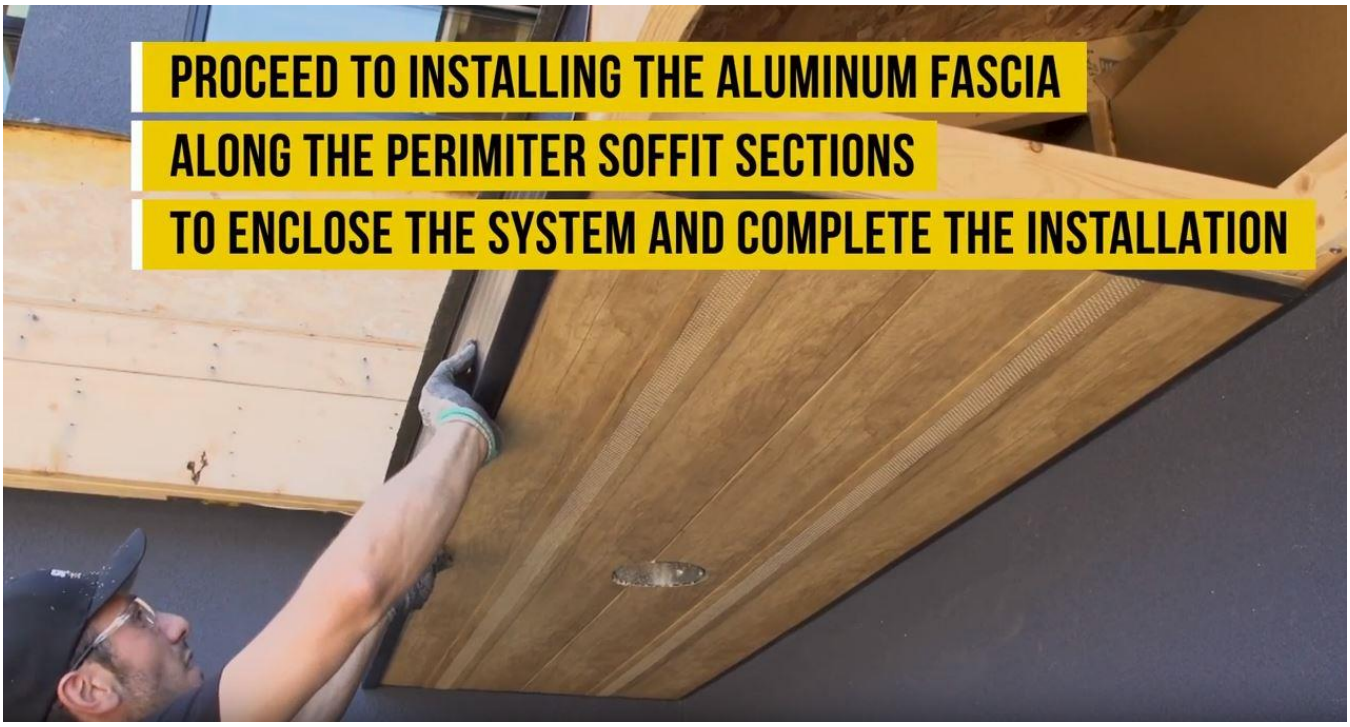

Figure 23

Soffit Penetrations

Prior to installation, review all electrical device (e.g. recessed lights) manufacturers' recommendations for minimum clearances to soffit materials. Leave a minimum of 3/8" of clearance for expansion/contraction and ensure that adequate backing is installed to support the weight of any integrated fixtures.

Figure 24, Soffit with light fixture

WARNING**

PROPER VENTILATION OF YOUR SAGIREV SOFFIT SYSTEM IS AN INTEGRAL PART OF THE SYSTEMS PERFORMANCE. CAREFUL BUILDING CONSIDERATIONS MUST BE MADE WHEN DETERMINING WHETHER OR NOT VENTILATION IS REQUIRED TO AVOID ISSUES. Inadequate soffit ventilation on warm summer days, especially at south facing areas, can lead to trapped air and excessive heat build-up within the soffit space resulting in soffit temperatures much higher than the outside air temperatures. This can also result in condensation build up on the face of the SAGIREV panels during colder winter temperatures. If the area above the SAGIREV soffit shares the same attic space as a perimeter vented soffit, the SAGIREV must also be vented to allow for wind to enter and exit both systems, avoiding potential damage to the SAGIREV panels from wind washing. SAGIREV Soffit vent strip offers 255 sq.in or 1.77 sqft of ventilation per 12ft piece. **Adequate soffit ventilation is always recommended**. Please refer to your local building code or design professional specifications for proper building ventilation requirements.

HIGH WIND VELOCITY VENT INSTALLATION**

IN AREAS WHERE THE SAGIREV SOFFT SECTION MAY BE EXPOSED TO HIGH WIND VELOCITIES (SEE PUBLISHED ASTM E330 TESTING FOR APPLICABLE DESIGN PRESSURES), SAGIPER RECOMMENDS AN ALTERNATE INSTALLATION METHOD. RATHER THAN STEP 4B, WHERE THE FASTENING FLANGE OF THE SAGIREV SOFFIT BOARD IS REMOVED, IT REMAINS INTACT, AND THE FASTENING FLANGE ON THE SAGIREV VENT STRIP IS MODIFIED. USING A TABLE SAW, REDUCE THE WIDTH OF THE FLOATING FASTENING FLANGE OF THE SAGIREV VENT STRIP FROM 0.9 INCHES TO 0.2-INCH (FIGURE 25). THIS IS TO FACILITATE ENGAGEMENT WITH THE FASTENED FLANGE OF THE SAGIREV SOFFIT BOARD. THE OPPOSITE FLANGE OF THE SAGIREV VENT STRIP IS FASTENED IN A SIMILAR MANNER TO THE SAGIREV SOFFIT BOARD.

THE FASTENING FLANGE OF THE SAGIREV SOFFIT BOARD, WHICH IS TO RECEIVE THE SAGIREV VENT STRIP, IS FASTENED AS NORMAL, BUT THE FASTENER HEAD IS LEFT SLIGHTLY ELEVATED SO AS TO ALLOW THE 0.2-INCH WIDE MODIFIED FLANGE OF THE SAGIREV VENT STRIP TO ENGAGE BEHIND THE FASTENED FLANGE OF THE SAGIREV SOFFIT BOARD (SEE FIGURE 26).

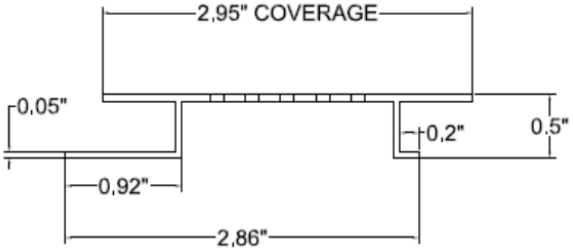

Figure 25, Modified Vent Strip

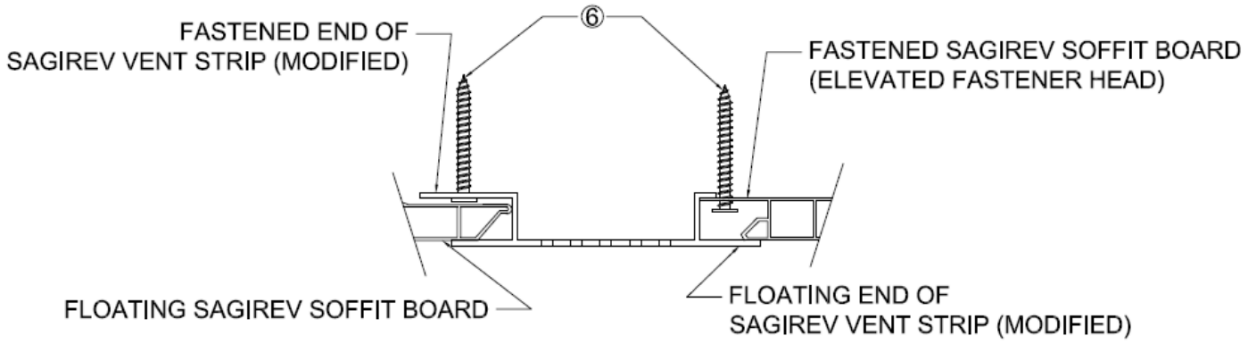

Figure 26, Final Assembly

FOR FURTHER INSTALLATION RELATED QUESTIONS OR ADVICE, PLEASE FEEL FREE TO CONTACT OUR TECHNICAL SUPPORT TEAM AT:

1 866 724 4737

1 866 SAG IPER

HEAT SHIELD INSTALLATION – RECESSED FLUSH MOUNT HEATER

For soffit or ceiling applications that will incorporate recessed flush mounted heaters, it is strongly recommended that the SAGIBOND SlimShield 3MM Aluminum Panel, Figure 27, be used to surround the heater and avoid direct contact with the PVC SAGIREV sofit planks, to avoid damage from exposure to excessive heat.

Figure 27, SAGIBOND SlimShield 3mm
4’ x 13’ (1250mm x 4000mm)
4’ x 9.5’ (1250mm x 3000mm)
4’ x 8’ (1250mm x 2500mm)
3’ x 6.5’ (1000mm x 2000mm)

Step 1

After determining the appropriate size of SlimShield panel required to accommodate the recessed flush mounted heater, center and trace the cut-out of the heater housing, and proceed to cut the SlimShield to-fit with an appropriate aluminum purposed router bit or jigsaw. Ensure a minimum distance of 6” is left from the outer faceplate of the flush mounted heater to the outer edge of the SlimShield panel.

Step 2

Prior to installing the SAGIREV soffit planks, the location of the recessed flush mounted heater would need to be determined and using the dimensions of the SlimShield panel that will be used to surround it, SAGIREV Aluminum 2-piece H-Mold bases will need to be fastened first into the substrate to form the base for the frame of the SlimShield. Additional framing may need to be added to ensure all H-mold bases are firmly secured along its perimeter.

Step 3

Once your SAGIREV soffit planks have been cut and installed, proceed to stick the supplied 3M 10mm rubber seal to the inside track of the SAGIREV 2-piece Aluminum H-mold base along the entire perimeter, see Figure 27 (2). This will prevent any reverberation between the Slimshield and the SAGIREV 2-piece Aluminum H-mold as well as ensure a secure fit.

Step 4

Proceed to cut the SAGIREV 2-piece Aluminum H-mold finishing caps to fit the perimeter with 45-degree end cuts to ensure a pleasing aesthetic finish. Hold the SlimShield into place within the pre-set frame of SAGIREV 2-piece Aluminum H-mold bases, to ensure a proper fit. Once set, proceed to install the H-mold finishing caps by fitting the male end into the female end of the H-mold base with a rubber mallet until fully engaged. To secure the SlimShield into place during installation, it may be easier to install the H-mold finishing caps one opposite side at a time.

PARTS LIST	
ITEM	DESCRIPTION
1	SAGIREV H MOLD BASE ALUMINUM
2	3M 10mm RUBBER SEAL
3	SAGIBOND SLIM SHIELD ALUMINUM 3mm
4	SAGIREV H MOLD FINISHING CAP
5	SAGIREV PANEL PVC
6	FLUSH-MOUNTED OUTDOOR HEATER

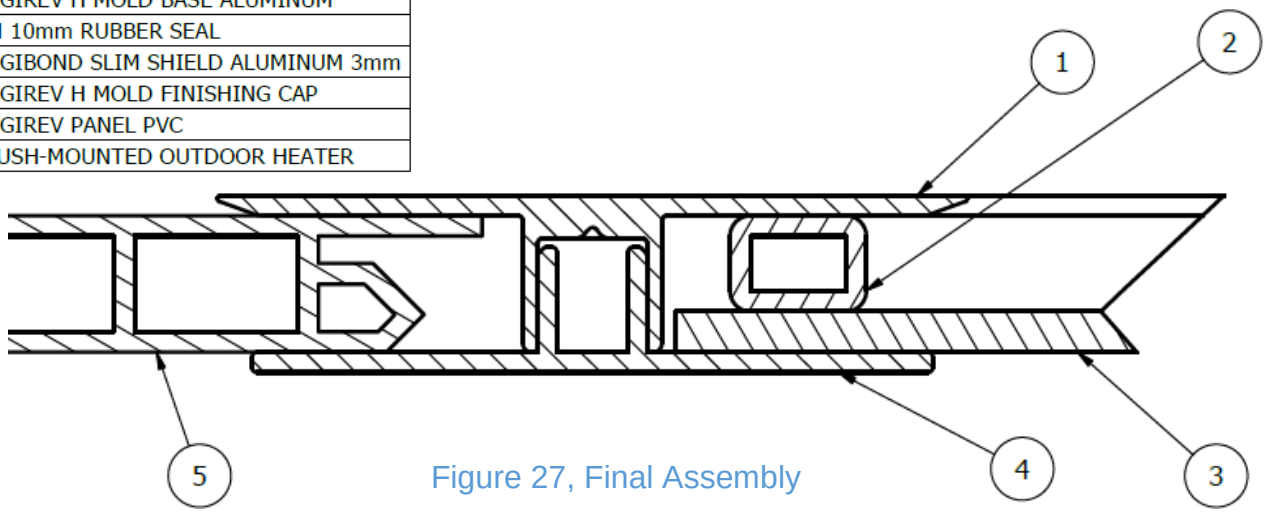

Figure 27, Final Assembly

Step 5

Complete installation by installing the recessed flush mount heater face-plate over the SlimShield pre-cut center opening.

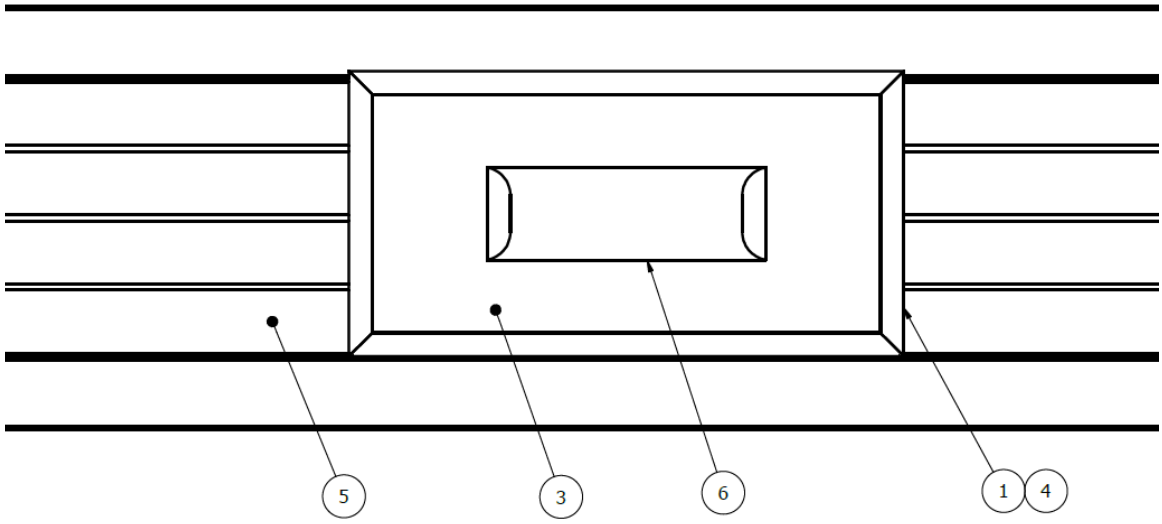

Figure 27-1, Final Assembly

***NOTE: IF A NON-RECESSED HEATER IS BEING INSTALLED, THE SAME INSTRUCTIONS WOULD APPLY, WITH THE EXCEPTION OF STEP 1.**

CARE AND MAINTENANCE

All soffit products require little cleaning due to their protected location. If desired, SAGIREV maintenance is very simple, needing only a simple cleaning with a sponge or damp cloth. When dirt has become noticeable wash it with an ordinary garden hose. Detergent or other types of non-abrasive cleaning products may also be used.

Before using any cleaning product, carefully read the cleaning product's instructions, and test it on a small inconspicuous area or on a scrap piece to see the results.

Warning

SAGIREV does not require any surface treatments, such as the application of surface sealers or coatings.

DO NOT use a stiff bristle brush or abrasive cleaner, which may change the gloss of the boards.

DO NOT use abrasive products to clean SAGIREV.

DO NOT use power washers for cleaning.