

# EXTERIOR COLLECTION

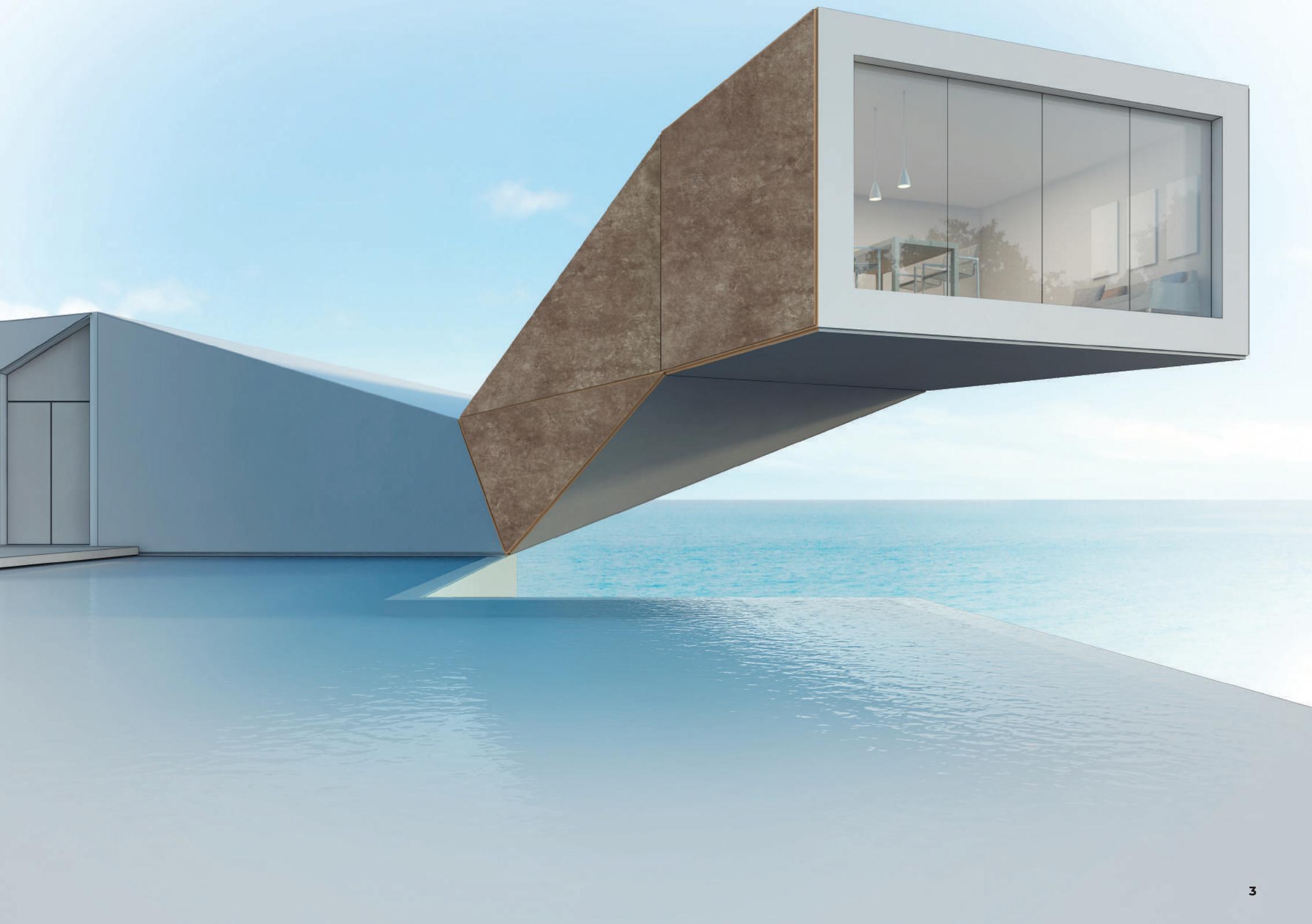
2022/23

**Exterior  
Compact Laminate**



# ASD Exterior Compact Laminate

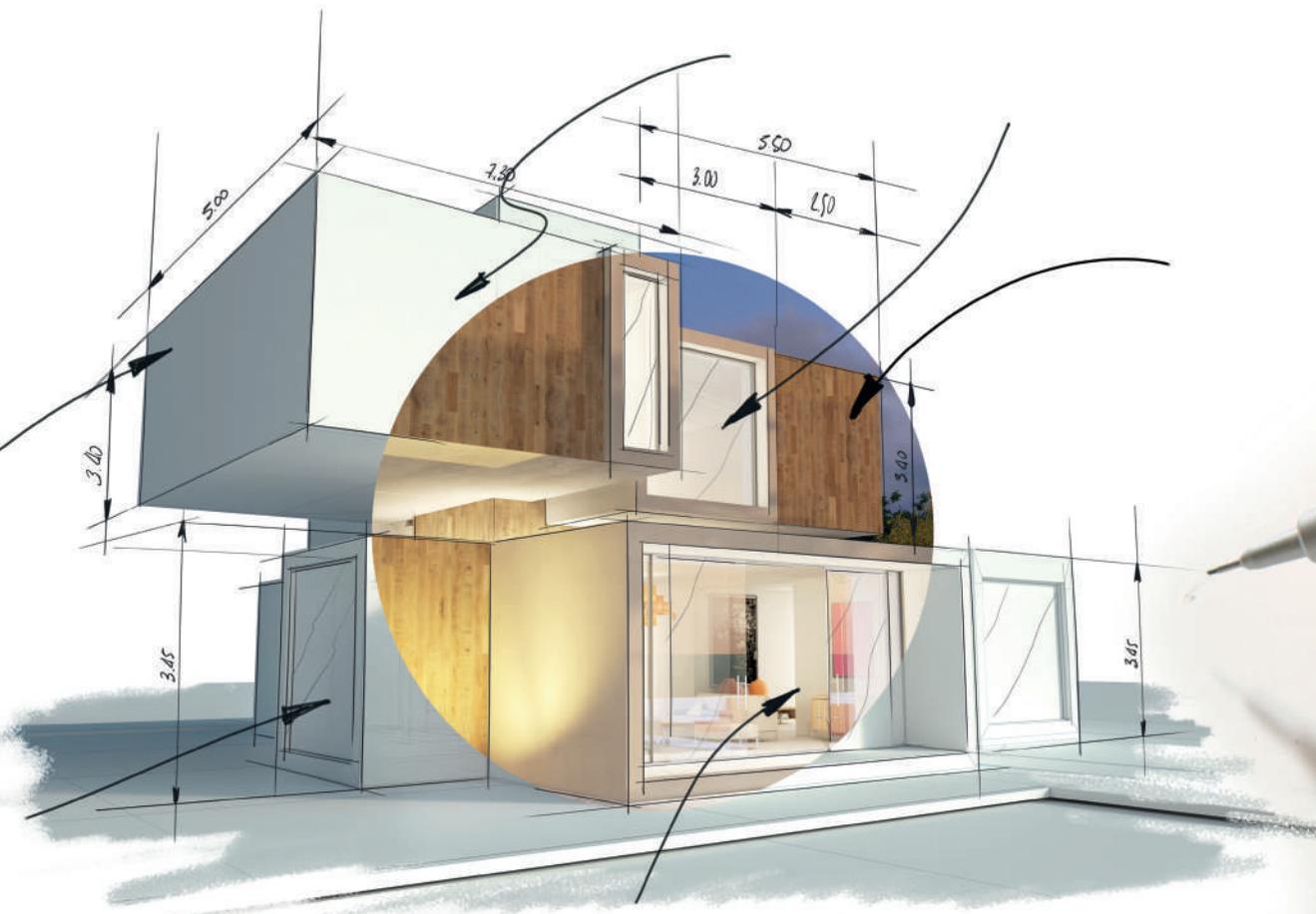
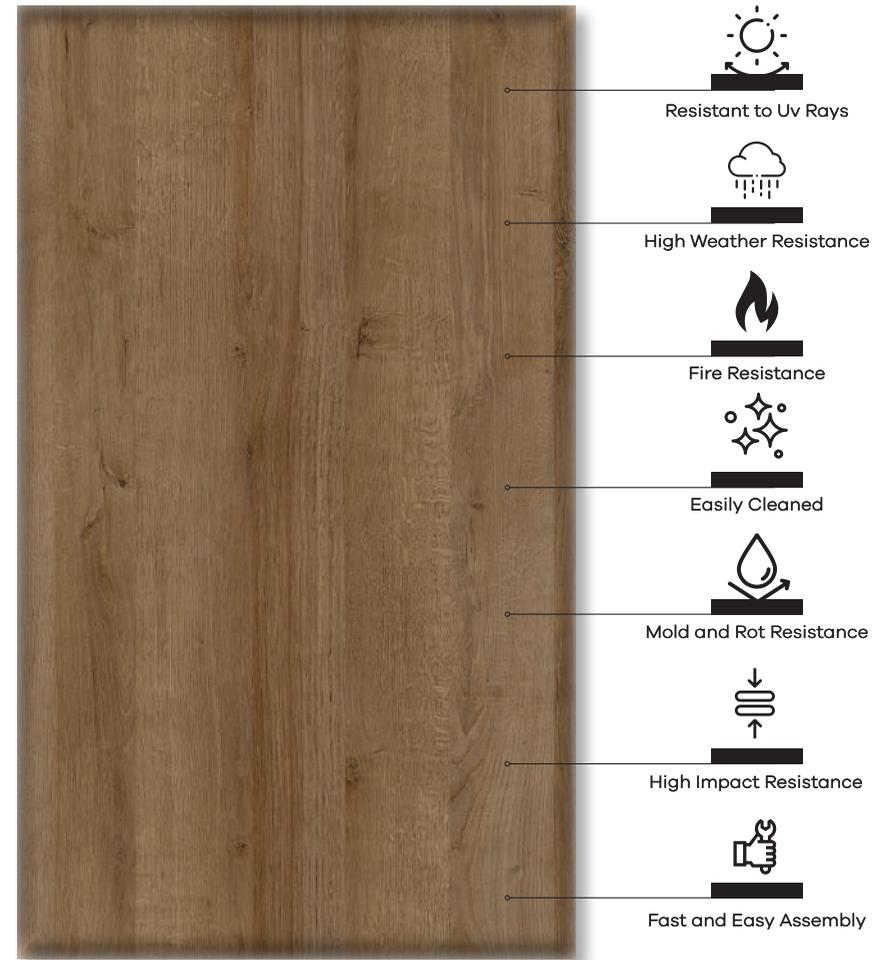
ASD Exterior is made for all outdoor applications. Aside from its use as a facade cladding material, it can also be used for any other outdoor-application such as balconies, exterior furniture, sunblinds, fascias, soffits, canopies, parapets, signages, porches, balustrades, decorative fences, shutters and for a wide range of other exterior applications.



# Product Features & Benefits

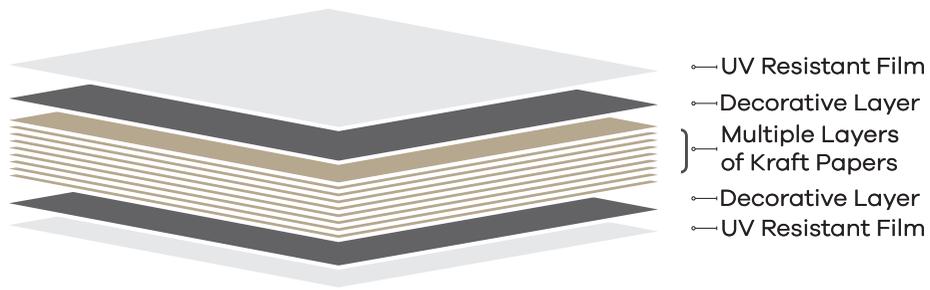
- Durable, solid, sturdy and long lasting.
- Extremely weather, water, heat and frost resistant.
- Energy efficient and eco-friendly when used as facade cladding material.
- UV-resistance and color stability.
- Being of homogeneous construction, dimensionally stable and mechanically strong.
- Great pull-out strength.
- Easy to modify and demountable.
- Radiation resistant.
- No painting required.
- Moisture and thermal control when used as facade cladding material.
- Enhanced indoor environmental quality IEQ when used as facade cladding material.
- Improved acoustics by 14 dB when used as facade cladding material.
- Superior impact resistance.
- Non-corrodible.
- Non-splintering.
- Inherently antibacterial with hypoallergenic properties.
- Easily machinable, workable and quick to install.
- Suitable for all exterior applications.
- Self-supporting when used as facade cladding material.
- Easy to clean.
- Low maintenanc.
- Limits heat loss in winter and the transmission of heat in the summertime when used as facade cladding material.
- Termite resistant.
- Resistant to mold, mildew decay and rot .
- Optimum fire behavior, does not melt, drip or explode.
- Adds to the value appreciation of older properties.
- Safe in use.
- Available in a wide range of decors & designs.

ASD Exterior is excellent for overcladding and renovating older buildings, adding an extra insulation layer and contributing value and aesthetic appreciation with minimal impact on the substructure of the building which is a great, budget friendly method of recycling existing structures.



# Product Description

ASD Exterior is an extremely weather resistant, structurally stable, self-supporting, robust, solid and a composite material manufactured at a high temperature at 150° Celsius |302 degrees Fahrenheit and with great pressure at 9 Mpa | 90 Bars with the use of High Pressure Laminate HPL machines in compliance with EN 438 - Part 6 and EN 438 - Part 7. The core part of the material is comprised of phenolic resin impregnated wood-based saturated virgin fiber kraft paper layers. Whereas, its decorative surfaces are made of thermosetting resin impregnated decorative wood-based cellulose paper layers reinforced with UV resistant films. ASD Exterior panels are available in standard quality ASD Exterior and flame and fire retardant quality ASD Exterior-FR.

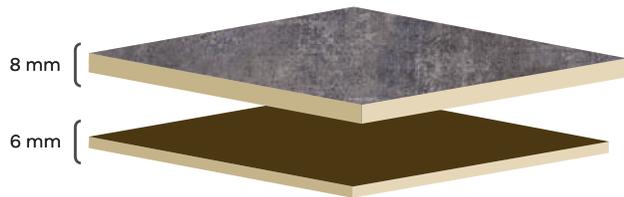


## Standard Size

1300 mm x 3050 mm | 4.20 ft x 10 ft  
1000 mm x 2150 mm | 3.38 x 7.05 ft  
1220 mm x 2440 mm | 4 x 8 ft

## Thicknesses

6 mm | 0.236 in ~ 8.9 kg/m<sup>2</sup> | 1.82 lbs/ft<sup>2</sup>  
8 mm | 0.314 in ~ 11.9 kg/m<sup>2</sup> | 2.43 lbs/ft<sup>2</sup>



\*Open your request for other thicknesses.

## Core

ASD Exterior can be comprised of either black or brown core while, ASD Exterior-FR is solely comprised of brown core.

## Format

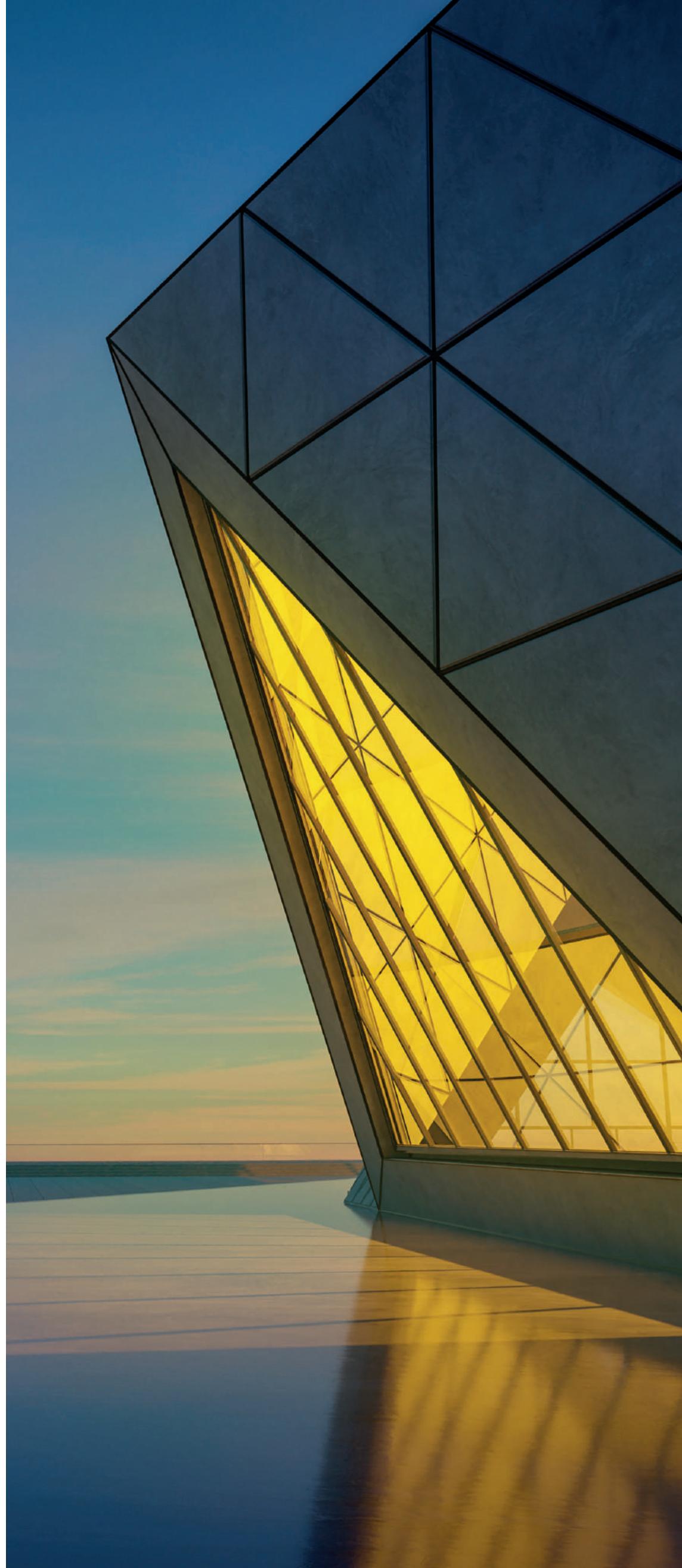
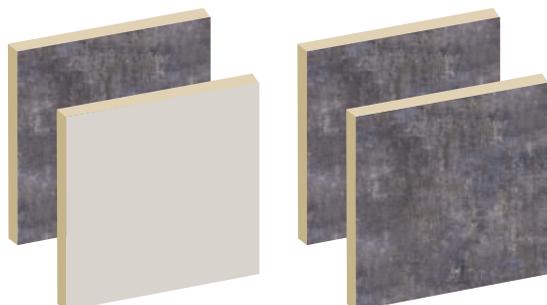
1300 mm x 3050 mm | 4.20 ft x 10 ft  
1000 mm x 2150 mm | 3.38 x 7.05 ft  
1220 mm x 2440 mm | 4 x 8 ft

## Double Design

Same decor or design on both sides of the panel.

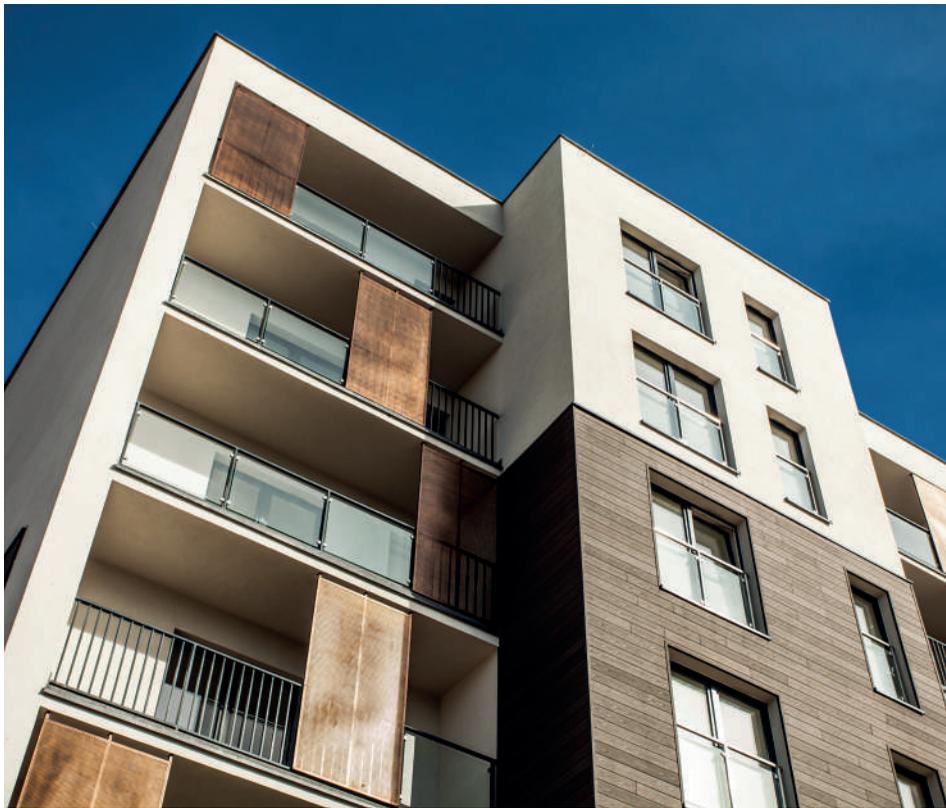
## Duo Design

Different decors or designs on the front and the reverse sides of the panel.





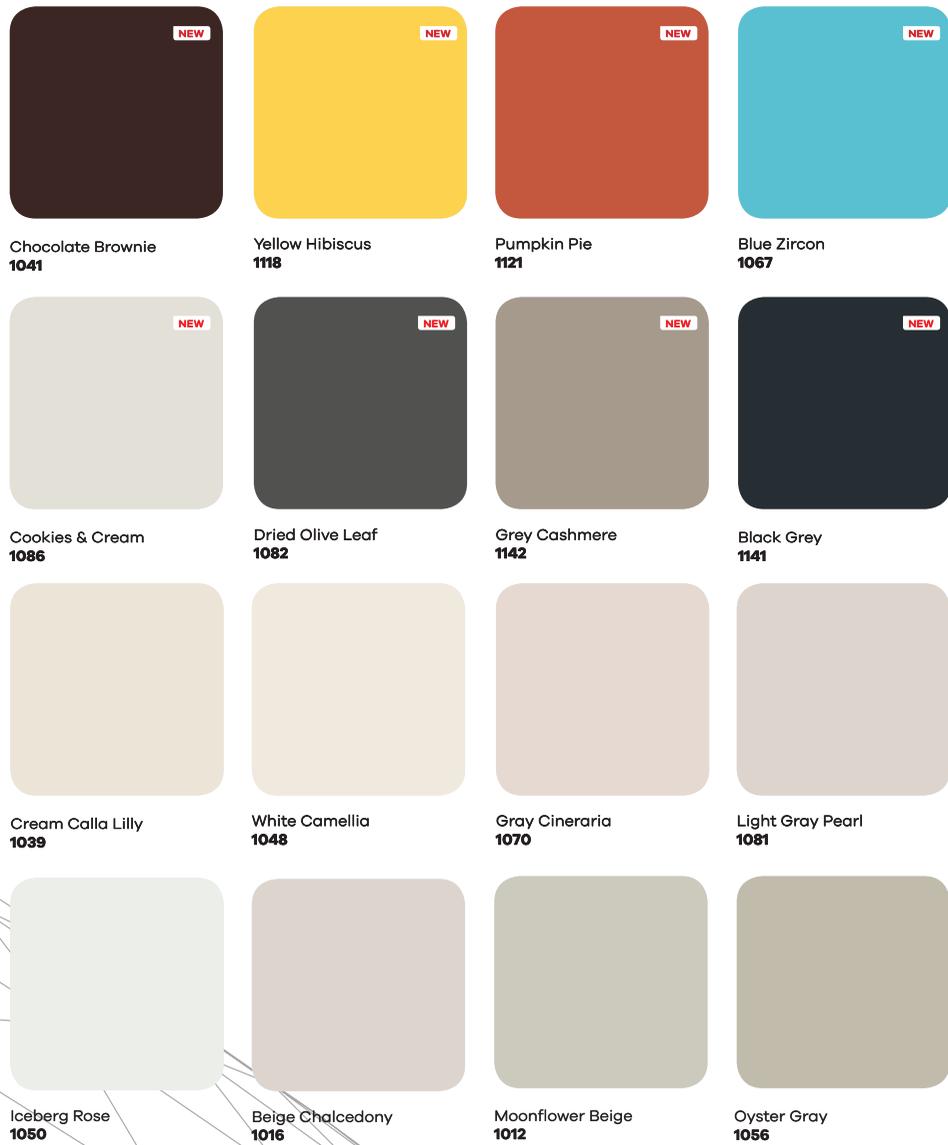
Exterior Surface Coating that  
Enhances the Quality of your  
Living Space !



# Decors & Designs

ASD Exterior can be ordered in 90+ standard decors & designs, Suede being the standard finish. For further information concerning the compatibility of the rest of our 500+ decors and designs and 30+ finishes with ASD Exterior please contact us.

## SOLID COLORS



Please note, The colors in this document are printed. Hence, they may slightly vary from the original ASD Exterior panel colors relating to gloss and color shades. Please contact us for requesting original samples.

# WOOD DECORS



Waterford Oak  
3072



Seal Cove Oak 1  
3139



Eugene Elm  
3121



Rhodes Teak  
3204



Crieff Oak  
3213



Kilimanjaro Rosewood  
3111



Aspen Oak  
3102



Balmore Oak  
3229



Goose Cove Oak  
3145



Carpathian Ash Tree  
3195



Tibetan Bamboo  
3126



Verona Elm  
3306



Sanremo Walnut  
3305



Walnut Chandler  
3307



Alexandria Teak  
3152



Galway Oak 1  
3155



Caucasian Walnut  
3089



Montreal Walnut  
3036



Sumatra Teak  
3060



Galway Oak 2  
3156



Killarney Oak 1  
3161



Killarney Oak 2  
3162



Killarney Oak 3  
3163



Kinsale Oak 1  
3164



Kinsale Oak 2  
3165



Kinsale Oak 3  
3166



Portree Oak  
3167



Kinsale Oak 4  
3168



Whiteadder Pine  
3169



Arcata Oak  
3175



Eire Chestnut 2  
3180



Bear Creek Chestnut 1  
3184



Bear Creek Chestnut 2  
3185



Borjomi Oak  
3186



Eire Chestnut 4  
3188



Banff Walnut  
3122



Deer Harbor Walnut  
3146



Whistler Oak  
3196

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Exterior panel colors relating to gloss and color shades. Please contact us for requesting original  
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# STONE DECORS



Fayetteville Stone  
5167



Ferndale Concrete 2  
5126



Maple Creek Stone  
5111



Citrine  
5191



Grey Slate  
5188



Jadaite  
5192



Laura Granite  
5101



Silverton Stone 1  
5107



Silverton Stone 2  
5108



Avoca Beach Stone  
5123



Longmont Stone  
5124



Sherbrooke Travertine 1  
5128



Lviv Concrete  
5147



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# ASD Exterior Compact Laminate



## Cleaning & Maintenance

The closed and non-porous surface of ASD Exterior virtually withstands dirt accumulation keeping the product smooth and easy to clean. The surface of ASD Exterior does not require a special procedure in terms of cleaning. Any dirt left behind from sawing or assembly and regular air pollution deposits can be removed simply with the use of ordinary, non-abrasive, organic solvent free, household cleaning items being applied with a paper towel, sponge or a soft cloth. The panels should be thoroughly rinsed off of any detergent remainings and then dried properly for avoiding any marks. Please avoid excessive rubbing, pressure or using aids that can cause abrasion marks or scratches. Please make sure to remove any foreign substance that might soil the surface of the panels during storage and installation such as drilling and machine oils, greases and adhesive residues. These types of foreign substances must be removed immediately without leaving any residue on the panels. Acid or alkaline-based cleaners and/or compounds such as drain cleaners, coffeepot cleaners, ceramic cooktop cleaners, chlorine bleach, some countertop cleaners, limescale removers, some disinfectants, rust removers, metal cleaners, tub and tile cleaners, oven cleaners, bowl cleaners and furniture polishes may mar, etch, stain, and permanently discolor the decorative surface of the panels. Any spillage or splashes of these cleaners must be washed off the laminate surface immediately. ASD Exterior Panels can be washed with a pressure-washer either with warm or cold water as long as the temperature of the water don't exceed 80°C | 176°F. In addition, if washed with a pressure- washer, the minimum distance between the nozzle and the panel must be 20 cm | 7.8740 in.

**Please note,**

Chlorine can be harmful for the decorative surfaces of ASD Exterior and there fore thought should be given to this fact when the panels are to be installed near swimming pools.



## Fire Behaviour

The fire behavior of ASD Exterior is excellent. It does not melt, drip or explode and maintains its stability for an extended period of time.



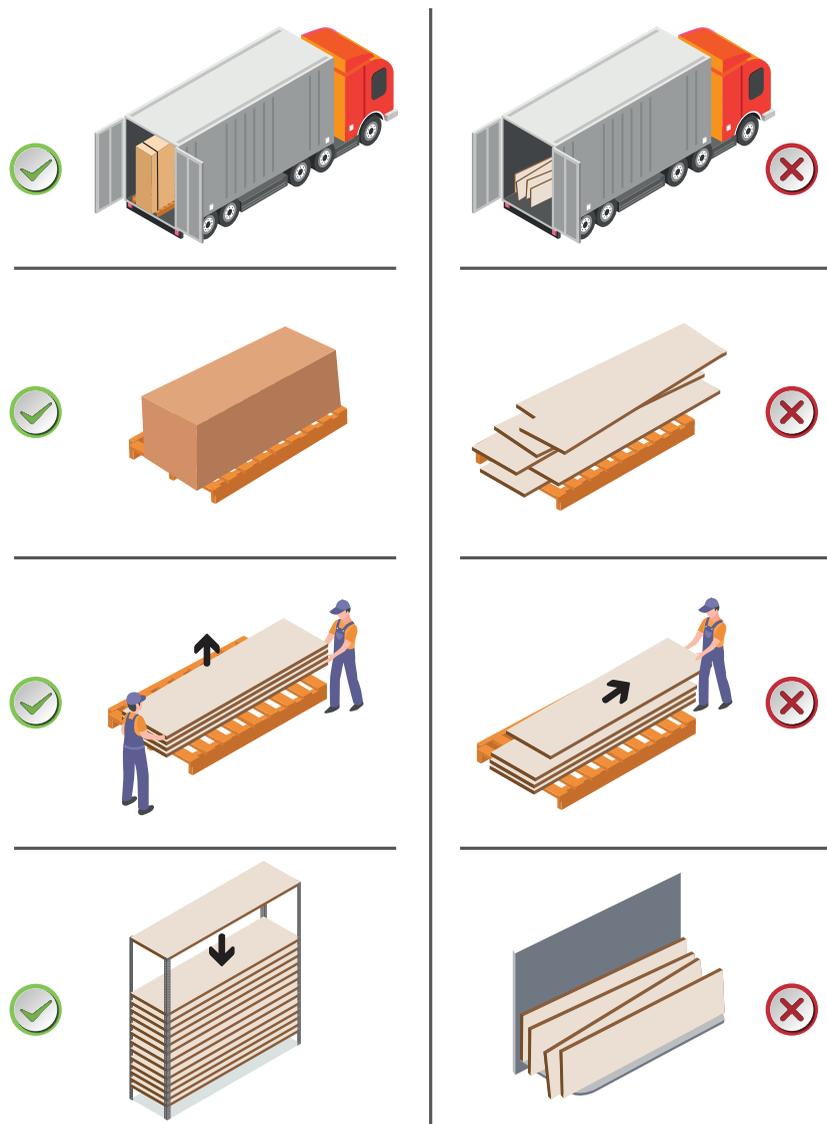
## Removing Graffiti

ASD Exteriors chemical resistant nature do not allow spray paints, various inks, emulsion paints, lipstick or pastel paints to penetrate the decorative layer. Therefore ASD Exterior do not require any anti-graffiti treatment. If the surfaces of the panels are coated with graffiti and/or for further information on removing graffiti, please contact us.



## Transportation, Handling and Storage

ASD Exterior Panels should be handled with caution in order not to damage their edges and decorative surfaces. Any form of dirt or dust between the panels must be avoided as the stack weight of the panels itself can be a possible cause of damage albeit the excellent surface hardness and the transportation protection films. During transportation, it is substantial to use pallets of appropriate size to support the whole of the panel area. Pallets must be strong and stable enough to support their load without bending. When transporting stacks of panels with mechanical handling vehicles, pallets of proper size and rigidity should be used. Abrasion between the decorative faces should be avoided at any given time. Stacked panels should be secured to the pallet using steel or nylon straps in order to prevent slippage. When loading and unloading, thought should be given not to let the panels slide over each other to avoid any damage. The panels should be lifted by hand or using a lifting system with suction cups. Baseboards should be placed between the pallets and the bottom panels. The baseboards of the stacks must be dry and, they should be covered with a material impervious to water to act as a moisture barrier. The top panel of each stack should be covered with a weighted down cover board with sufficient weight to keep the panels flat. This cover board should be in contact with the whole surface area of the top panel. The cover board on top also should be covered with a material impervious to water to act as a moisture barrier. The panels should be stacked on top of each other on a completely flat surface. The same principles apply to cut-panel stacks as well. If stored incorrectly, panels may be permanently deformed. Temperature and climate differences on the surfaces of the panels should be avoided. In addition, the transportation protection films must be kept away from heat and direct sunshine. When the transportation protection films are to be removed, they must be removed from both sides simultaneously in order to secure the dimensional stability of the panels.



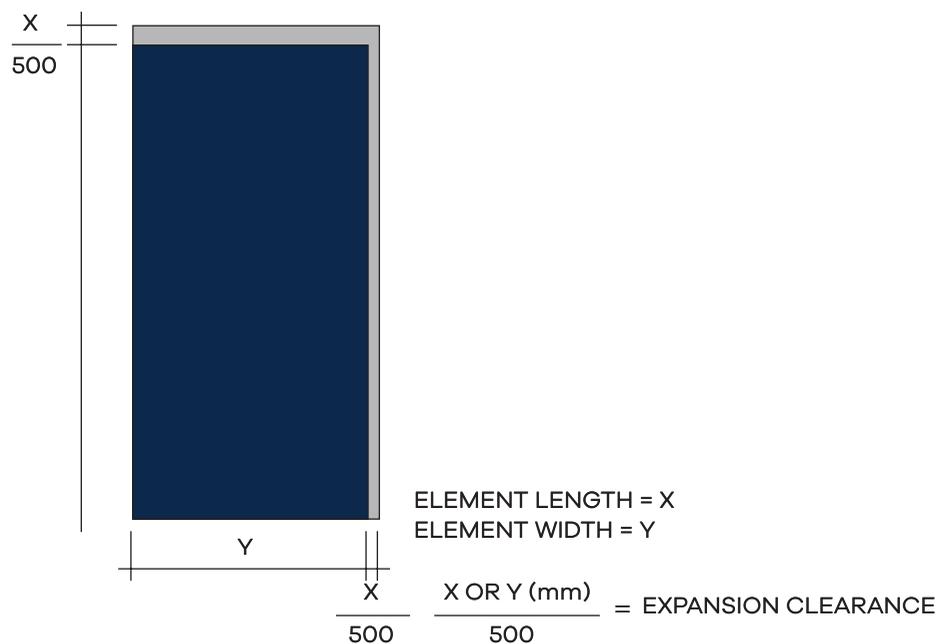
# Dimensional Stability

As ASD Exterior Panels are robust and non-reactive, and of homogeneous, excellently dense, highly tensile nature, their pull-out strength is absolutely fantastic for fixings and fasteners. Cut edges, drilled holes and engraving the surface of the panels do not require any special treatment afterwards and the panels can be applied as they are.

ASD Exterior Panels may shrink at low humidity levels as they lose moisture and expand at high humidity levels as they absorb moisture. Hence, allowing the panels to acclimatize at their final destination both before their fabrication and installation is recommended. Before processing and installing, we recommend the panels to be left in a well-supported, ventilated, horizontal position for a period of 1 day per mm | per 0.0393 in of thickness, consequently, allowing the panels to acclimatize for avoiding any deformation.

**Please note,**

Thought must be given to this potential dimension change at the design and installation stage.



# Drilling

For drilling ASD Exterior panels, we recommend the use of drills for plastics. The drills must have a point angle of 60°- 80° instead of the normal 120° that is used for drilling metals.

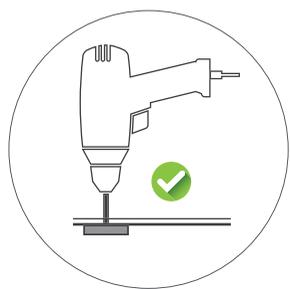
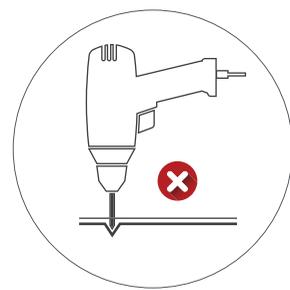
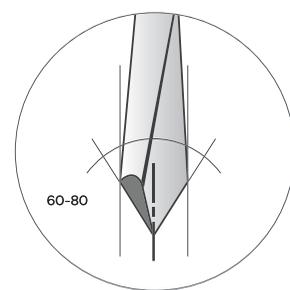
The feed speed of the drilling head and the pressure being applied must be gently lowered when approaching the point of breakthrough in order to prevent a breakout on the reverse side of the panel. In addition, for preventing breakouts, we recommend the use of a completely flat and stable underlay panel to be used such as plywood or chipboard.

When blind boring, thought must be given to ensure that 1.5 mm | 0.059 in of material remains between the hole and the reverse side of the panel. We do not recommend panels less than 8 mm | 0.314 in for concealed fixing.

Moreover, a high drilling speed is to be used to avoid any chipping. Screws into the edges are to be avoided in general. If a screw is to be positioned near an edge, we recommend that they are placed no closer to an edge than 75 mm | 2.95 in to avoid splintering and breakouts.

**Please note,**

Thought must be given to this potential dimension change at the design and installation stage.



Panel Thickness:	6 mm   0.236 in 450 mm   17.71 in 550 mm   21.65 in
2 Fixings In One Direction:	8 mm   0.314 in 600 mm   23.63 in 750 mm   29.52 in
3 Or More Fixings In One Direction:	10 mm   0.393 in 750 mm   29.52 in 900 mm   35.43 in

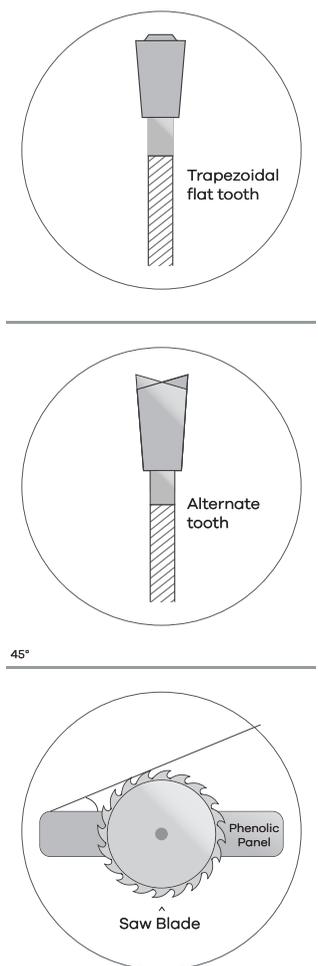
# Fabrication

Due to the high density of ASD Exterior panels, processing them is similar to the processing of hardwood panels. Tools that are designed to process hard materials should be used to process ASD Exterior panels. Worn out, improper and poorly maintained tools can result in chipping and/or localized heating and therefore in poor cuts. For a sound result we recommend the use of either a tungsten carbide tipping TCT or Polycrystalline Diamond tooling PCD. It is of great importance to avoid any vibration during processing and to keep the panels completely flat and stable.

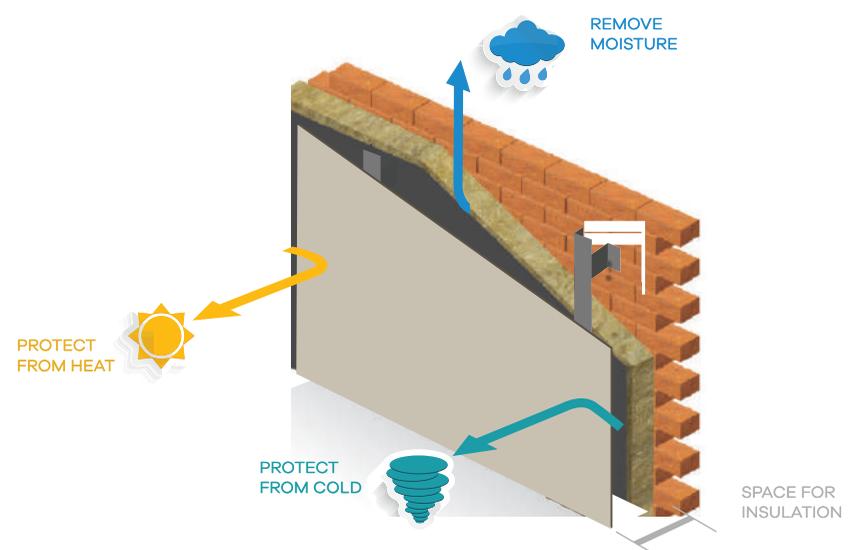
The feed speed must be optimized properly for smooth cuts. The larger the saw blades yield, smoother the cuts will be. We recommend the use of circular bench saw with blade diameter of 300 mm - 400 mm | 11.811 in - 15.748 in and at least with 96 teeth. For deburring the edges, a handheld router or a high-grade sand paper can be used. The decorative surface of the panel is where the tool should engage, the same rule being applicable to all types of machining tools. The higher the saw blade the better the top cut and the worse the bottom cut will be and vice versa. Breakout on the underside of the panels can be reduced by using a base-board of plywood or a hardboard beneath the ASD Exterior panels. We recommend the use of either a Trapezoidal flat tooth or an Alternate tooth for a smooth cut. In addition, a saw entry angle of 45° is optimal and recommended.

**Please note:**

When processing ASD Exterior Panels with a CNC machine, it is a must to remove the transportation protection films beforehand as the transportation protection films may decrease the suction power of the CNC bed which can affect the stability of the panels therefore resulting an unintended outcome.



# Non-Bearing, Rear-Ventilated Facade Systems



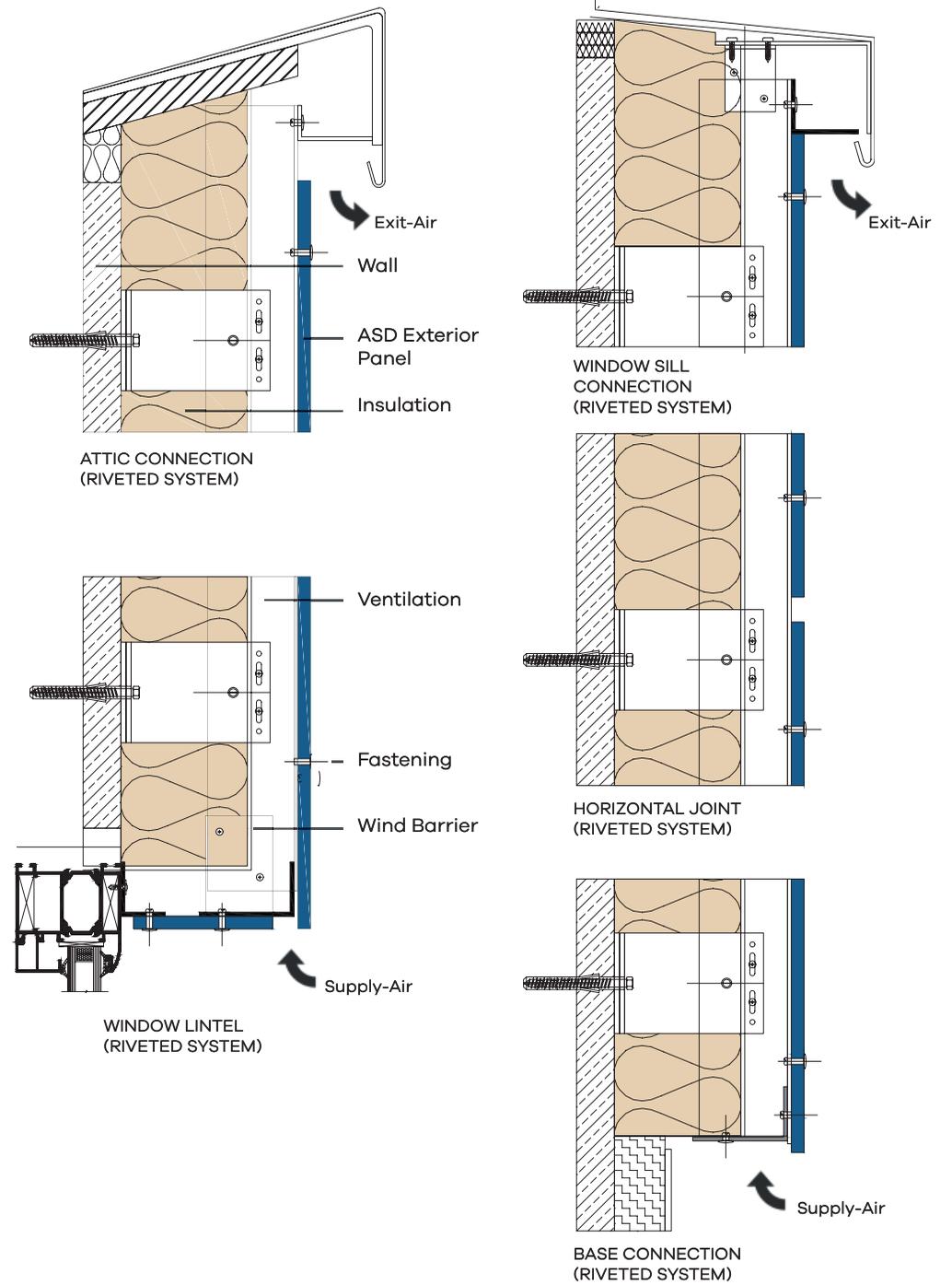
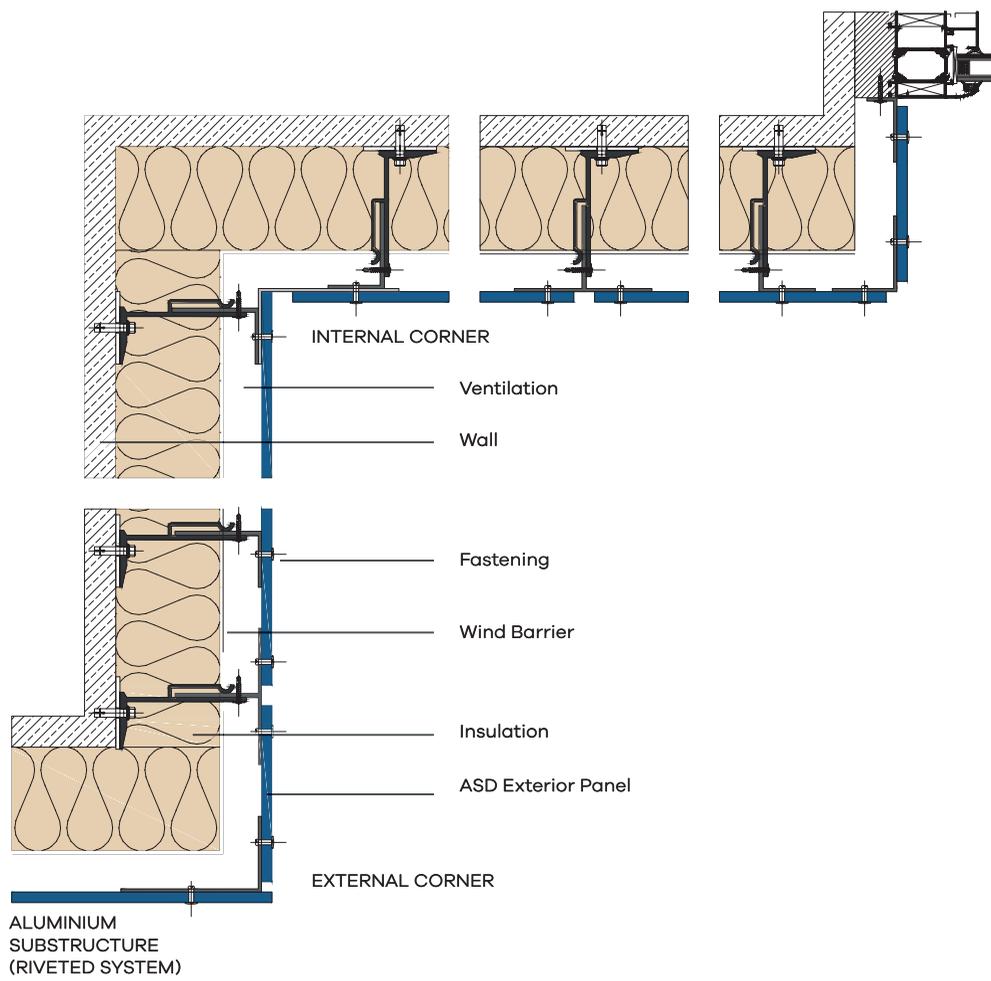
The non-bearing, rear-ventilated facade VHF system is a highly energy efficient system. Any required thickness of insulation material can be used and therefore allowing the system to be utilized for different energy needs and requirements. VHF limits heat loss in winter and the transmission of heat in the summertime. By creating energy efficient buildings, the non-bearing, rear-ventilated facade systems contribute to the minimalization of the overall carbon dioxide emission which is one of the greatest causes of environmental pollution. The moisture that builds up in between the building and ASD Exterior is removed through the rear-ventilated space, therefore, ensuring of the lasting effectiveness of the insulation and significantly contributing to the enhanced indoor environmental quality IEQ. In addition, VHF can improve acoustics by 14 dB depending on the thickness of the insulation material.

# Aluminium Substructure Riveted System

# Aluminium Substructure Riveted System

## Horizontal

## Vertical

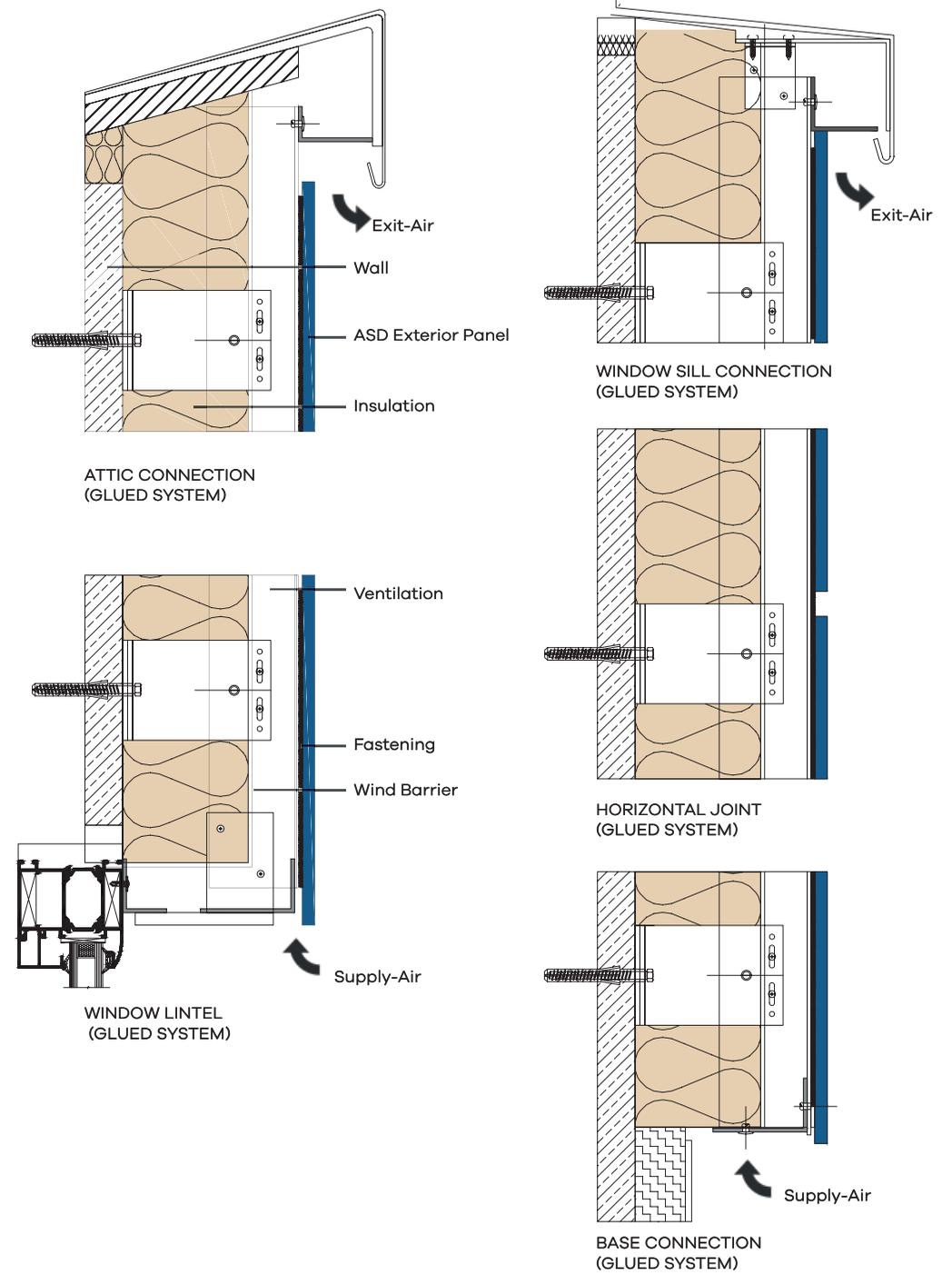
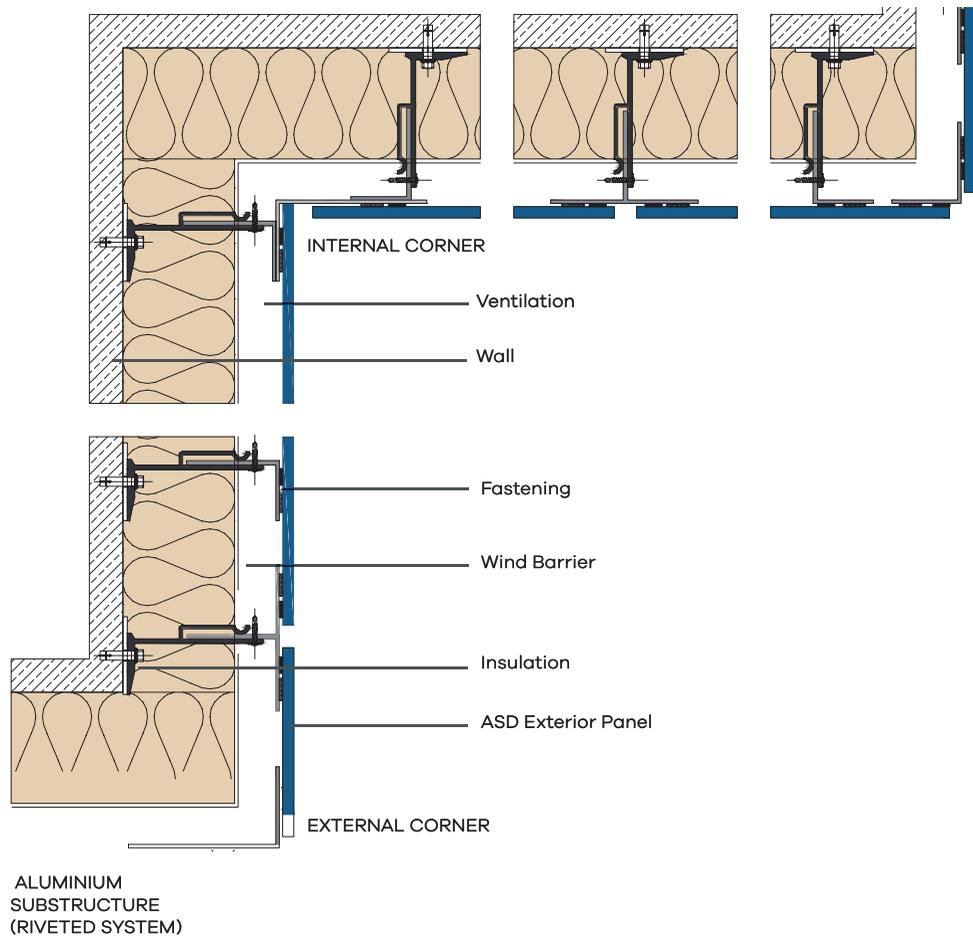


# Aluminium Substructure Glued System

# Aluminium Substructure Glued System

## Horizontal

## Vertical

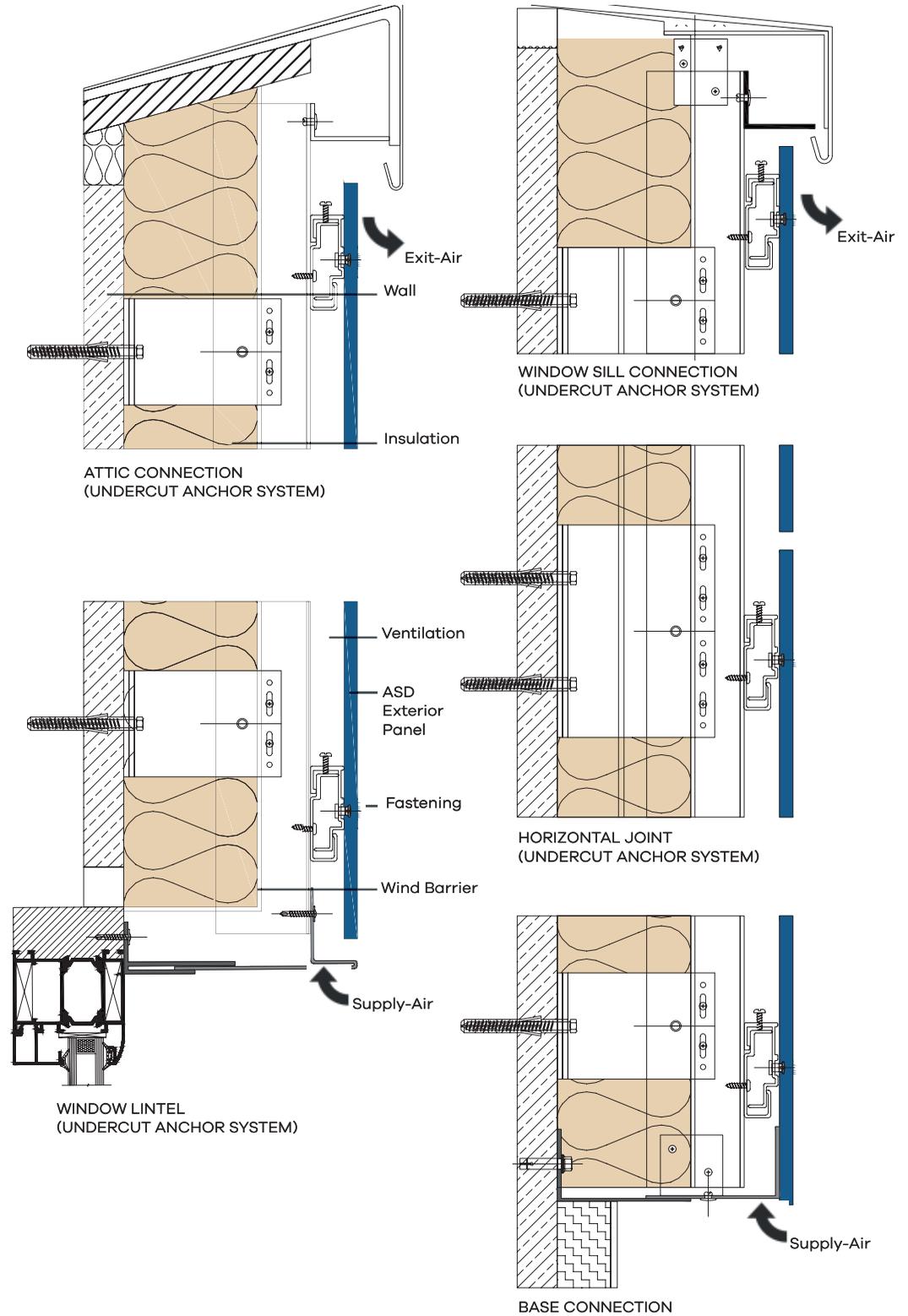
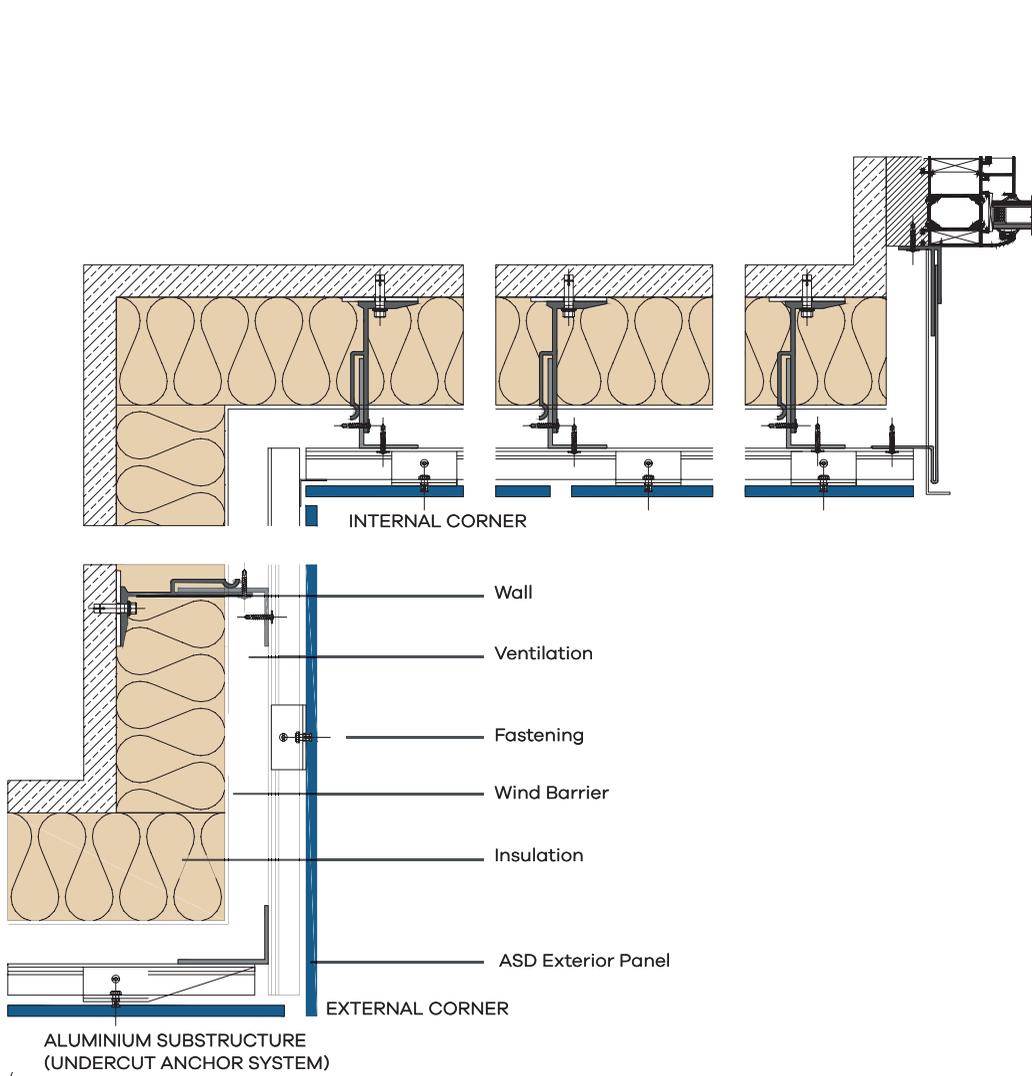


# Aluminium Substructure Undercut Panel Anchor System

# Aluminium Substructure Undercut Panel Anchor System

## Horizontal

## Vertical

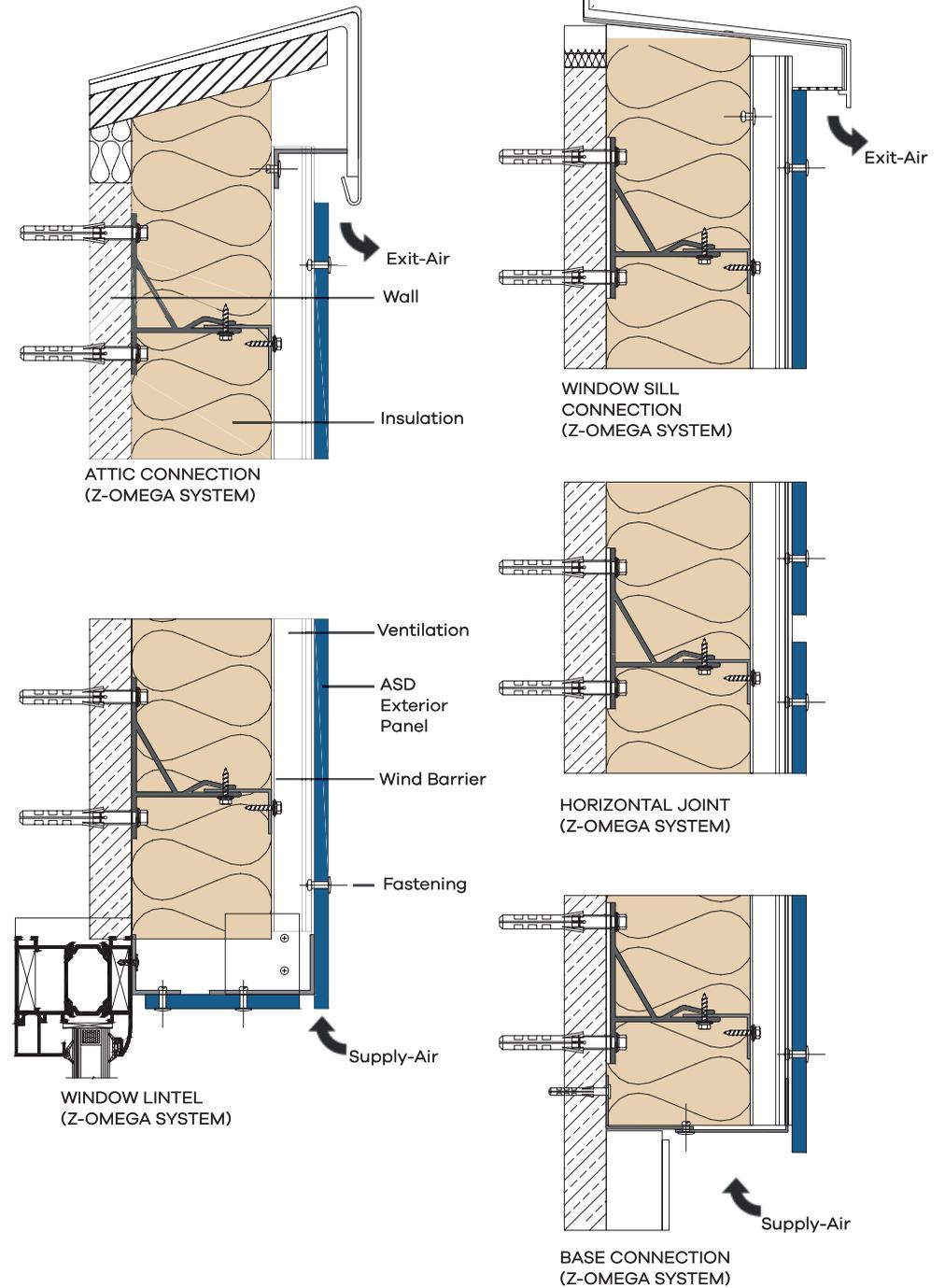
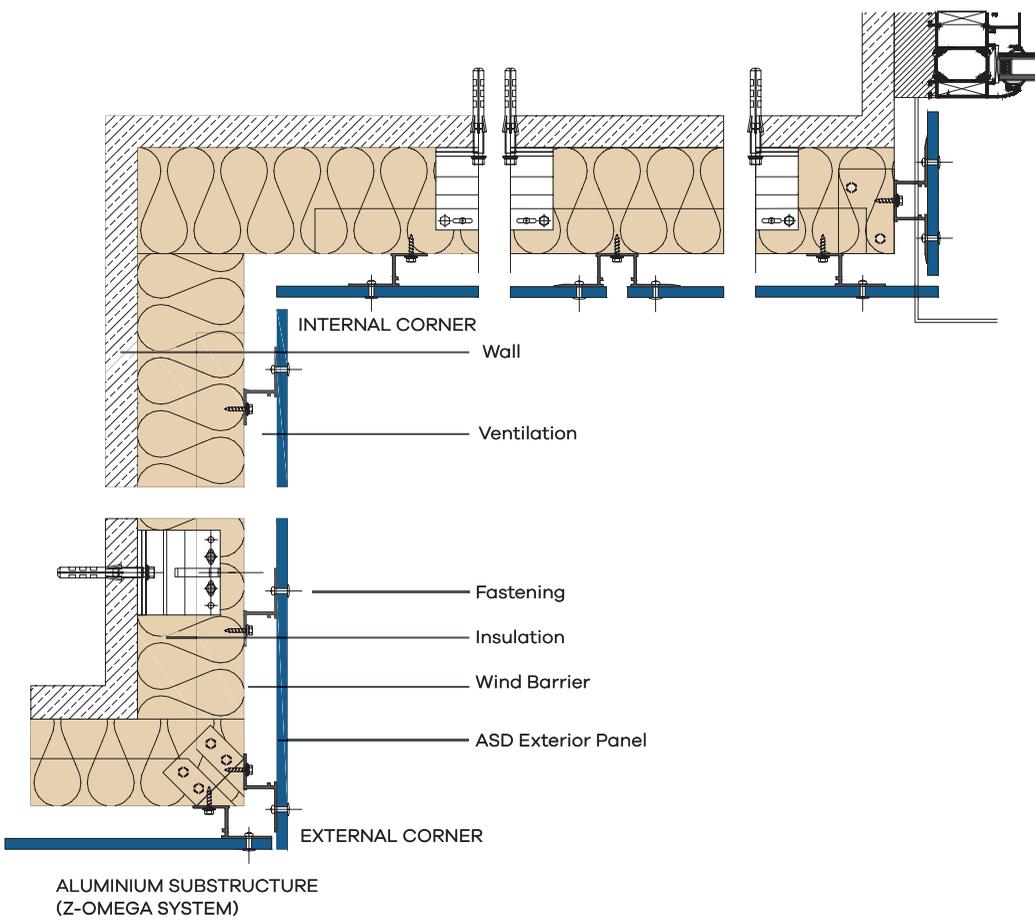


# Aluminium Substructure Z-/Omega Riveted System

# Aluminium Substructure Z-/Omega Riveted System

## Horizontal

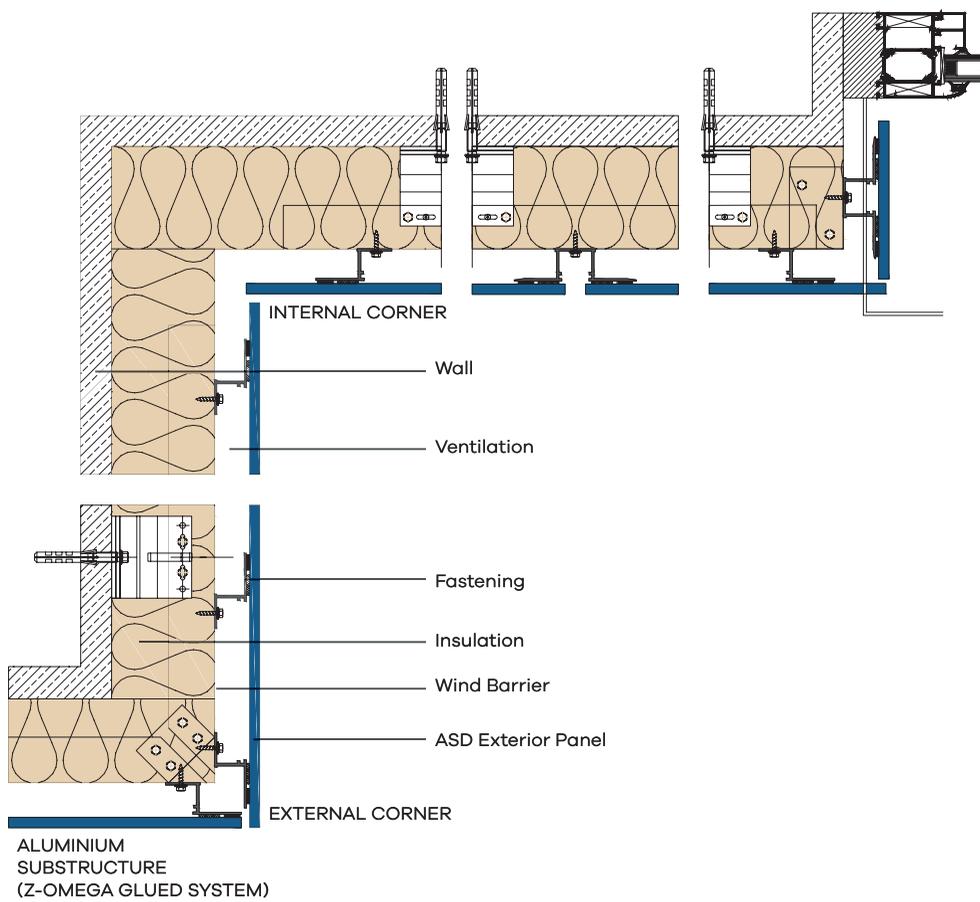
## Vertical



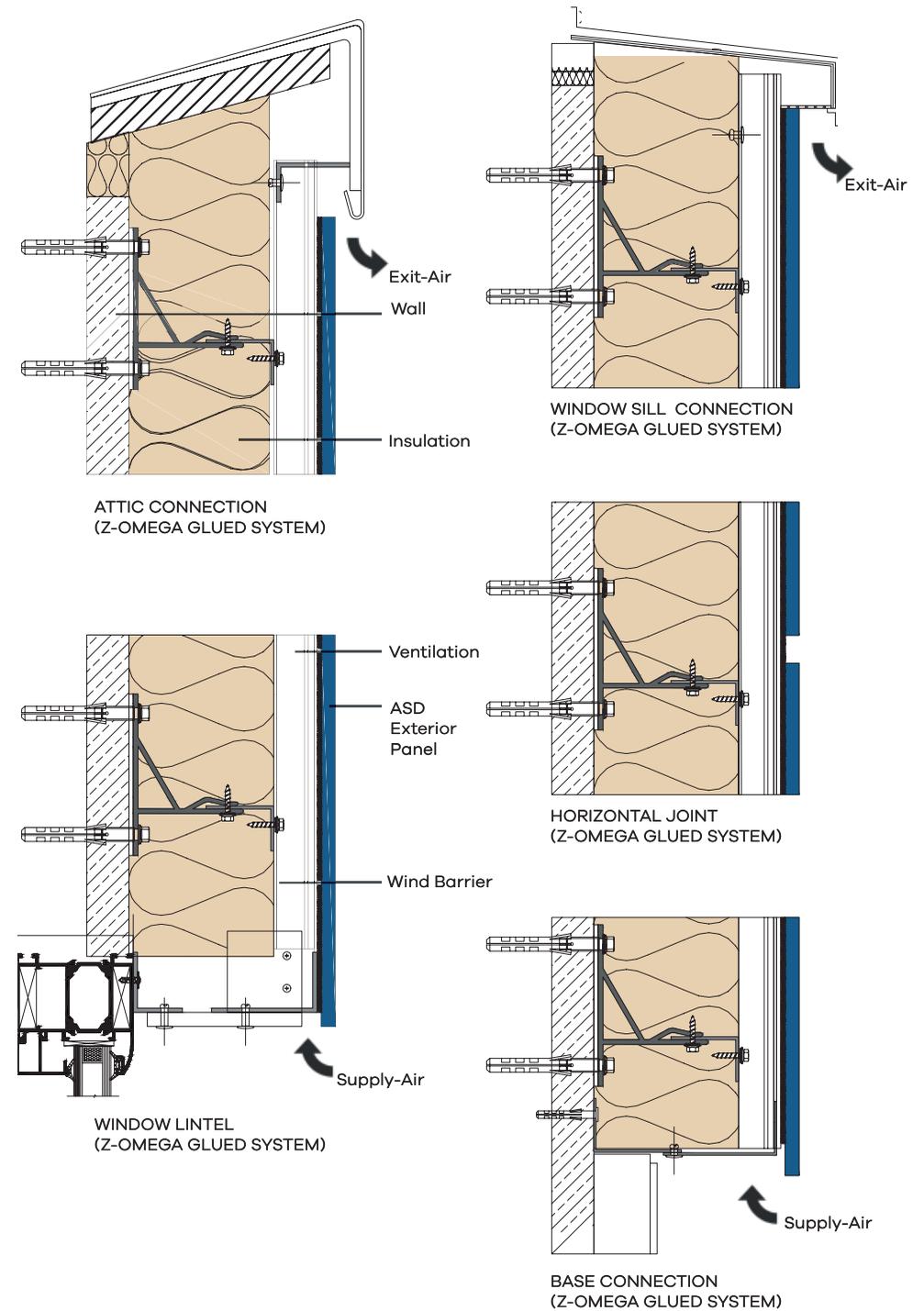
# Aluminium Substructure Z-/Omega Glued System

# Aluminium Substructure Z-/Omega Glued System

## Horizontal

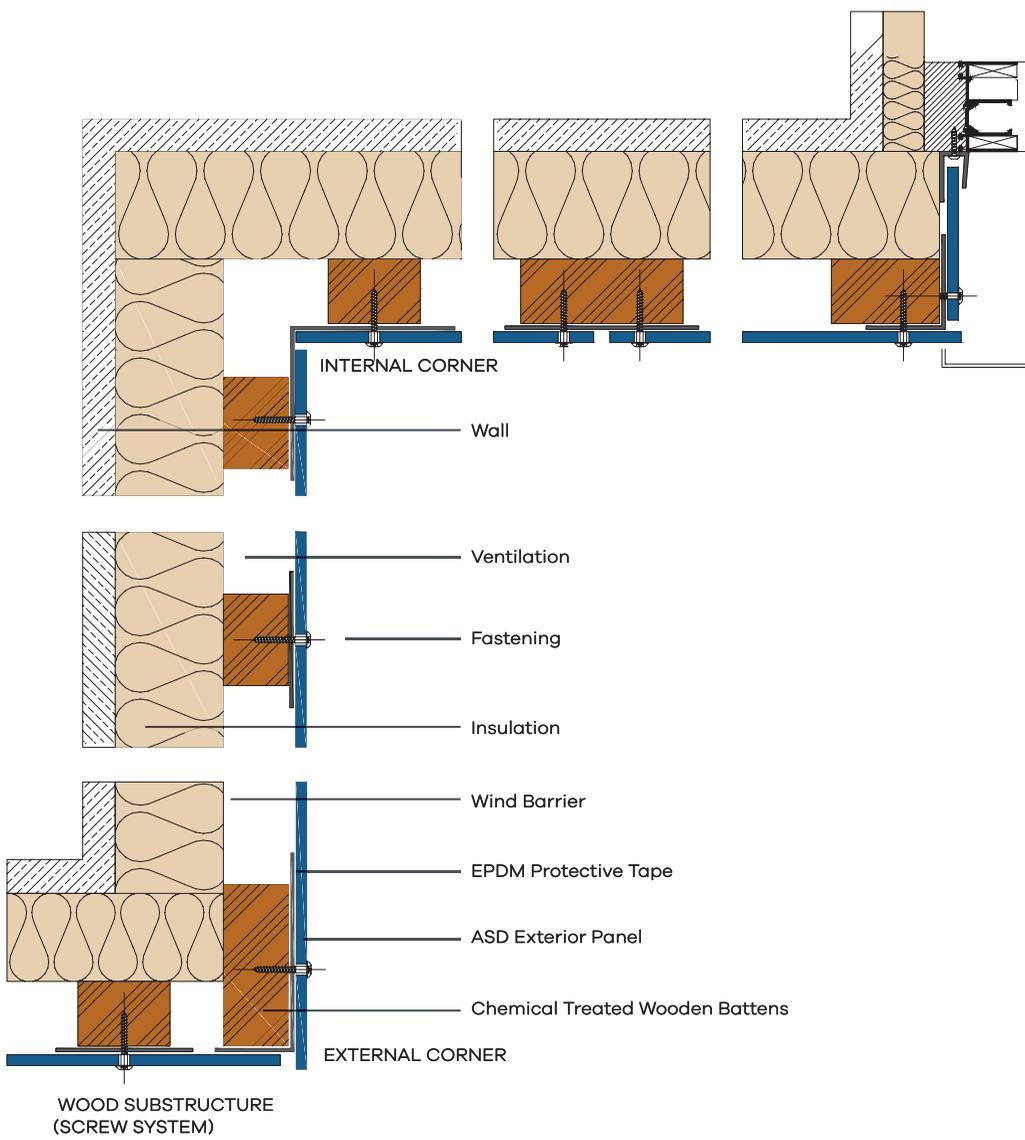


## Vertical



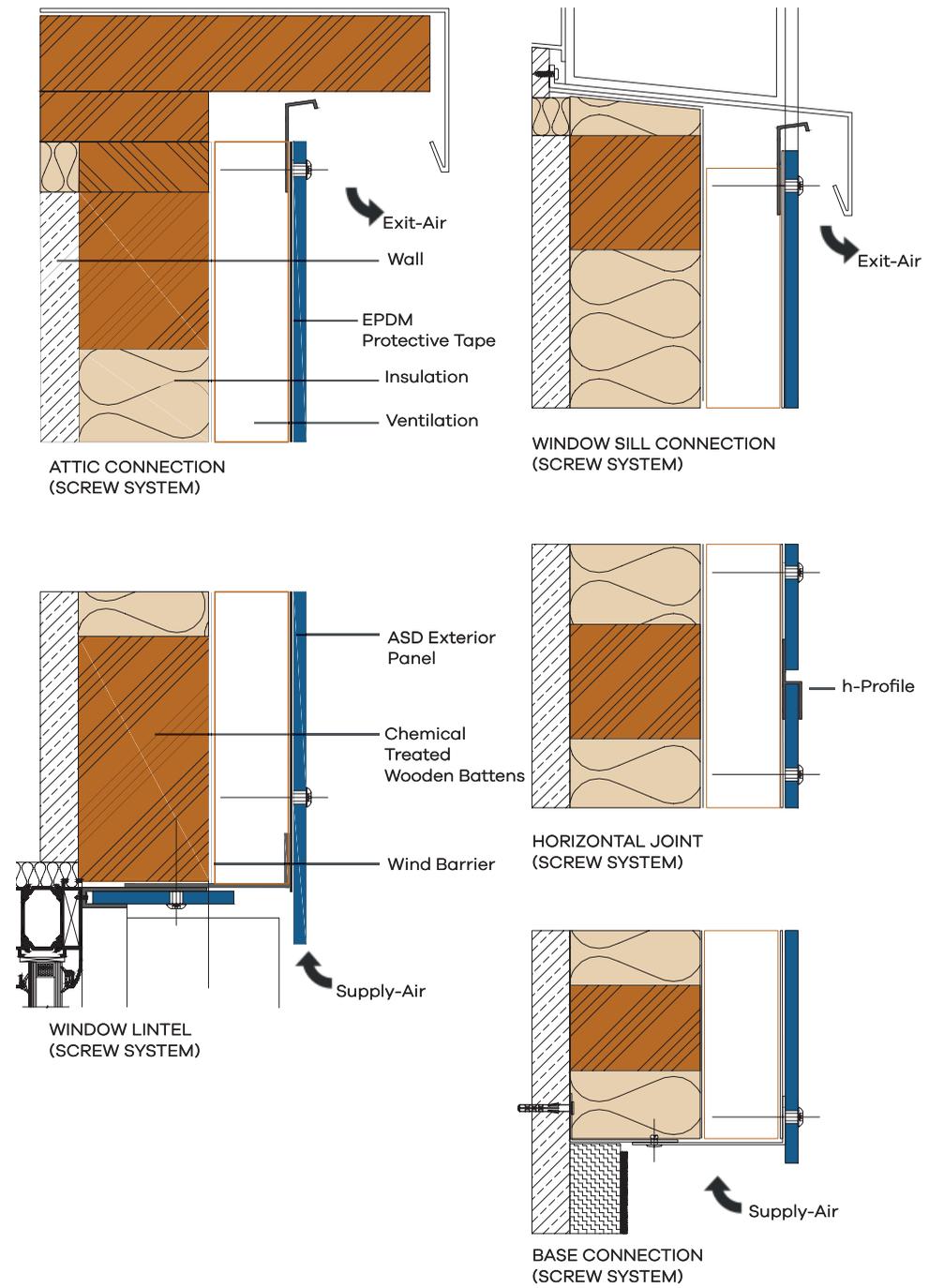
# Wooden Substructure System

## Horizontal



# Wooden Substructure System

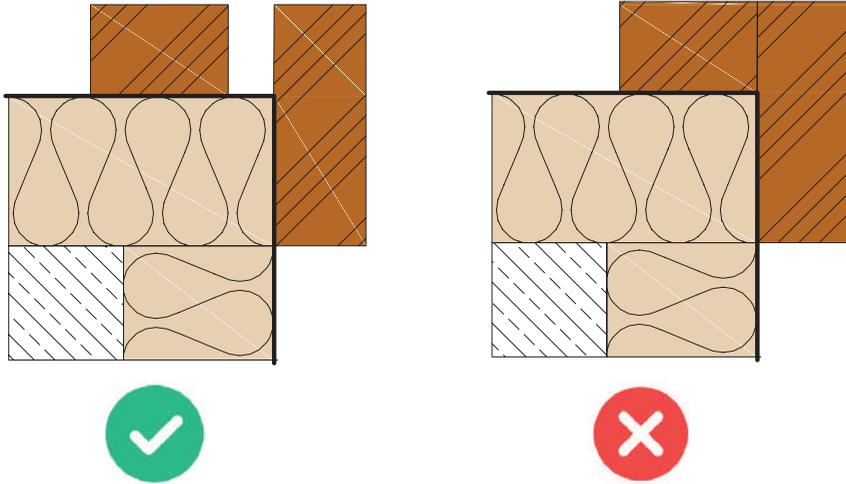
## Vertical



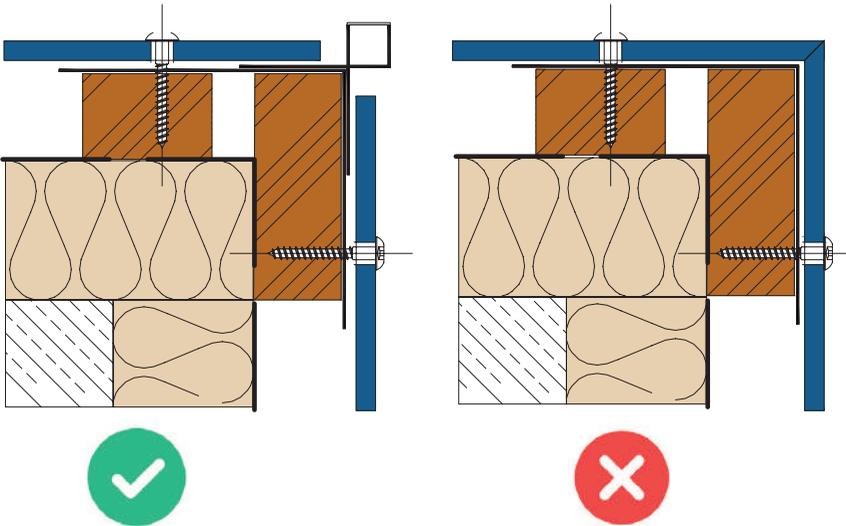
# Error Avoidance In Wooden Substructures

Please take the following graphic instructions into account in order to avoid making errors when building wooden substructures.

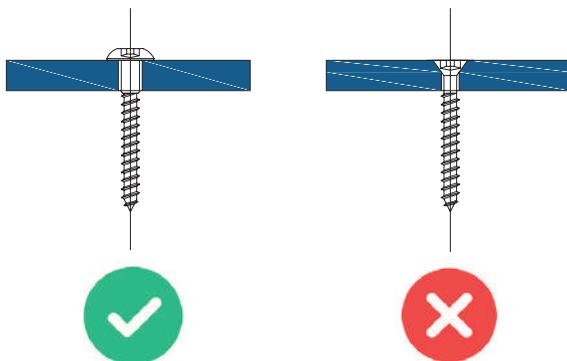
## CAPILLARY ACTION/AVOIDANCE OF NARROW JOINTS



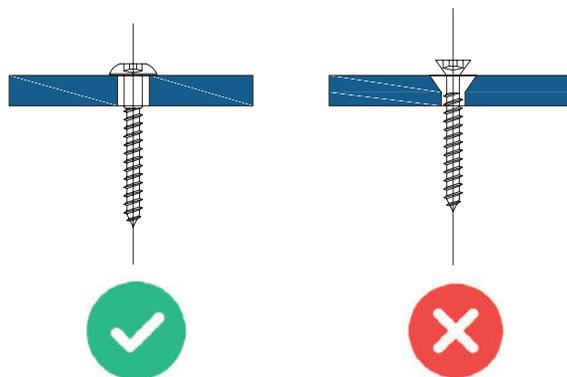
## VARIANT WITH EXTERNAL CORNER PROFILE



## DRILLED HOLE FOR FIXED POINTS D= 6.0 mm/DO NOT USE A COUNTERSUNK HEAD



## DRILLED HOLE FOR SLIDING POINTS D= 8.0 mm/DO NOT USE A COUNTERSUNK HEAD



**Please note:** Thought needs to be given to local requirements and circumstances such as climate, wind load and the national building regulations.



# SUSTAINABILITY

We believe in being the change ourselves that we would like to see in the world. Therefore, we believe in living in harmony with our planet, not off of it. Over the many years, sustainability has become an essential part of who we are, we strive to take good care of our planet. We believe in absolute minimum waste and complete, controlled and sustainable protection of our beautiful nature. ASD Exterior panels do not contain biocides, heavy metals, organic halogen, chlorine, fluorine, bromine, asbestos, wood protection agents such as fungicides, pesticides and are free of sulfur, mercury, and cadmium. Neither do ASD Exterior panels release any gases, vapors, solvents or fluids. Roughly 70% of ASD Exterior consists of natural wood. We source raw materials from FSC™ certified establishments. The FSC™ standards ensure that the wood is produced in compliance with internationally applicable regulations for sustainable forestry.

