BUILDING ENVELOPE EAST

WEATHER RESISTIVE BARRIERS

Convoy Supply
Construction Materials

Types

- VAPOUR PERMEABLE (VP)

- AIR & VAPOUR BARRIER (AVB)

Applications

- SHEET-APPLIED

- LIQUID-APPLIED

Weather Resistive Barriers

Protecting buildings while adhering to changing codes in different regions can be challenging. Convoy Supply and your Account Manager are here to help ensure you have what you need for any project and to make sure your questions are answered.

One important component for today's buildings is dedicated weather resistive barriers. Weather resistive barriers keep wind, rain, and other destructive weather out of interior building spaces where they could cause damage.

There are two types of weather resistive barriers: vapour permeable and non-vapour permeable. You must determine the location of the insulation in the building cavity before you can choose the type of weather resistive barrier required for your project.

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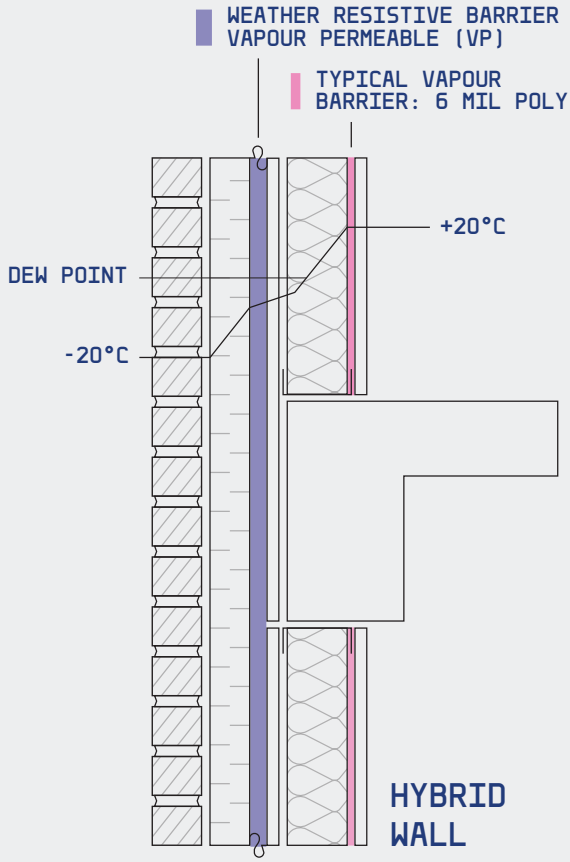
↘ VAPOUR PERMEABLE (VP)

Vapour permeable weather resistive barriers keep weather out of buildings and meet the design criteria of the National Building Code for an air barrier. By permitting the escape of trapped moisture vapour, these barriers prevent the buildup of condensation within wall assemblies and attics, mitigating the risk of mold growth and structural damage.

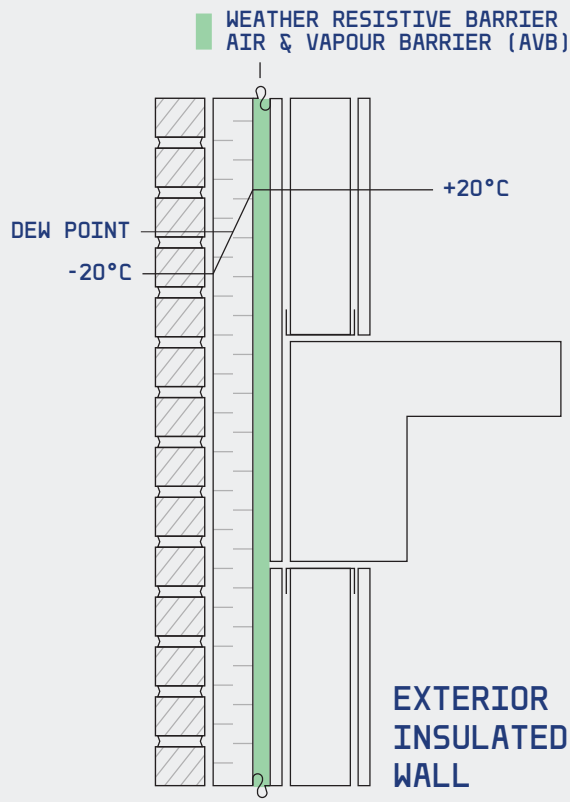
They contribute to a dry and comfortable indoor environment while also enhancing energy efficiency by reducing heat loss or gain through air leakage. Overall, vapour permeable weather resistive barriers play a vital role in maintaining the performance and durability of buildings in various climates.



↘ AIR & VAPOUR BARRIER (AVB)

Non-vapour permeable weather resistive barriers keep weather out of buildings and meet the design criteria of the National Building Code for an air barrier and a vapour barrier. In Canada it is critical that the non-vapour permeable weather resistive barrier be placed between the insulation and the warm side of the building. For this reason, non-vapour permeable weather resistive barriers are typically installed on exterior insulated walls.

Non-vapour permeable barriers create a sealed layer that blocks both moisture and air from penetrating the building envelope. By forming an effective barrier against external elements, impermeable barriers help maintain a dry and comfortable indoor environment while also enhancing energy efficiency by reducing heat loss or gain through air leakage. Additionally, impermeable barriers play a crucial role in preventing water intrusion, mold growth, and structural damage, thus safeguarding the longevity and integrity of the building.



Application Methods

↘ SHEET-APPLIED

Sheet-applied barriers typically come in the form of rolls or sheets made of materials such as asphalt-saturated felt, building wraps, or self-adhered membranes. These barriers are installed onto the exterior sheathing of the building using mechanical fasteners, adhesives, or both. Installing sheet-applied barriers using mechanical fasteners is proving to be tedious and few applications meet the manufacturer's installation specifications.

Therefore it is important to note that self-adhered membranes are becoming more common in the market. Self-adhered sheets have self-sealing seams and create a continuous barrier that prevents moisture and air from penetrating the building envelope. Sheet-applied barriers offer durability and ease of installation, making them popular choices in construction.

↘ LIQUID-APPLIED

Liquid-applied barriers are applied as a liquid coating directly onto the exterior surface of the building envelope, including onto concrete, masonry, or sheathing. These barriers can be applied using various methods such as spraying, rolling, or brushing, allowing for seamless coverage over irregular surfaces and penetrations.

Once applied, the liquid material cures to form a flexible and continuous membrane that effectively blocks moisture and air infiltration. It is important to note that liquids cannot span joints. Therefore liquids need to have reinforcing fabrics installed into them when spanning a joint. Using sheet-applied barriers is another popular method for spanning a joint. Liquid-applied barriers offer versatility in application and can accommodate complex geometries and detailing.

Supporting Products, Accessories, and Tools

We carry everything else you need to ensure your buildings are protected, including caulking and adhesives, primers, reinforcing fabrics, fasteners, and all the necessary tools and equipment.

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