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Sealing Cladding Attachments

Over DuPont™ Thermax™ Wall System

When installing rainscreen attachment systems through the DuPont™ Thermax™ Wall System*, it is important to ensure the system remains water tight. DuPont Performance Building Solutions is committed to providing with the best guidance for use of our products based on tested results.

Through rigorous testing of a variety of products and configurations, including air infiltration, pressurized water, structural pressurizing, and thermal stressing, we've compiled our latest recommendations on how to properly seal rainscreen cladding attachment systems to ensure long term water holdout.

TABLE 1: Thermax™ Wall System Sealing Options Summary

	Attachment Type	LiquidArmor™ QS* Flashing and Sealant	LiquidArmor™ LT* Flashing and Sealant	LiquidArmor™ CM* Flashing and Sealant
Figure 1	Z-Girt, Horizontal (surface mounted)	Cured[1] & on fasteners[3]	Wet[2] or cured[1] & on fasteners[3]	Cured[1] & on fasteners[3]
Figure 2	Z-Girt, Vertical (surface mounted)	Cured[1] & on fasteners[3]	Wet[2] or cured[1] & on fasteners[3]	Cured[1] & on fasteners[3]
Figure 3	Hat Channel, Horizontal	Cured[1] & on fasteners[3]	Wet[2] & on fasteners[3]	Cured[1] & on fasteners[3]
Figure 4	Hat Channel, Vertical	Cured[1] & on fasteners[3]	Wet[2] & on fasteners	Cured[1] & on fasteners[3]
Figure 5a	Over Flat Strap	Continuous over furring	Continuous over furring	Continuous over furring
Figure 5b	Under Flat Strap	Cured[1] & on fasteners[3]	Wet[2] & on fasteners	Contact us
Figure 6	Wood Furring	Cured[1] & on fasteners[3]	Wet[2] & on fasteners	Contact us
Figure 7a & 7b	Knight Wall HCI™ [4]	Cured[1] & on fasteners[3]	Wet dipped screws[3]	Contact us
Figure 8	Knight Wall CI® [4]	Contact us	Wet dipped screws[3]	Contact us

[1] "Cured" - Flashing is applied along the stud lines and cured at least 24 hours prior to fastening cladding attachment. This can be done at the same time the insulation board joints are sealed.
[2] "Wet" - Flashing is wet applied under the attachment system. This can be applied directly to the attachment system before setting it and fastening to the wall.
[3] "on Fasteners" – Flashing is wet applied to each cladding attachment fastener after cladding attachment is fastened to the wall.
[4] Knight Wall attachments are registered and trademarked by Knight Wall Systems. Follow all manufacturer installation guidelines.

Photo: DuPont™ Thermax™ Wall System using Thermax™ XARMOR™ (ci) Exterior Insulation with DuPont™ LiquidArmor™ Flashing and Sealant applied to board joints.
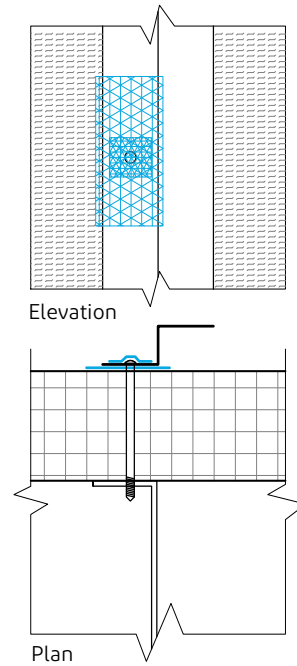
Figure 1: DuPont™ LiquidArmor™ Flashing and Sealant with Horizontal Z-Girt
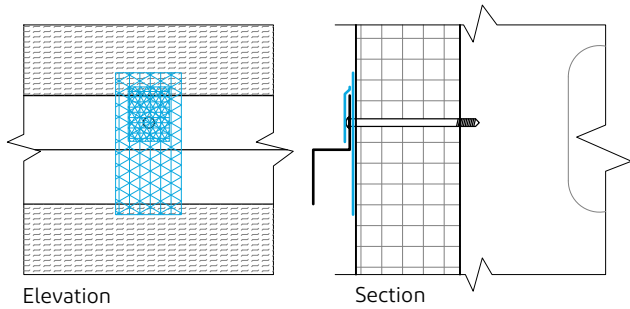
Elevation

Section

The sample detail above illustrates DuPont™ LiquidArmor™ Flashing and Sealant applied underneath Z-girt and over fasteners. Options include:
· DuPont™ LiquidArmor™ **QS** (cured)
· DuPont™ LiquidArmor™ **LT** (wet)
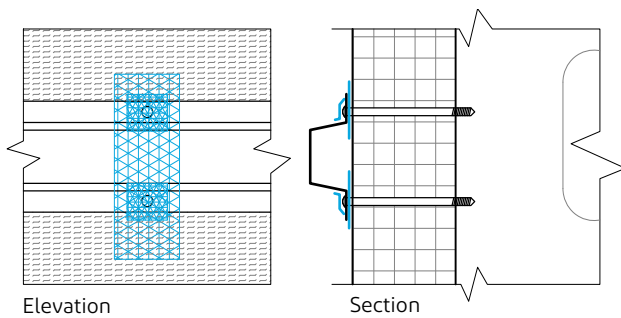· DuPont™ LiquidArmor™ **CM** (cured)

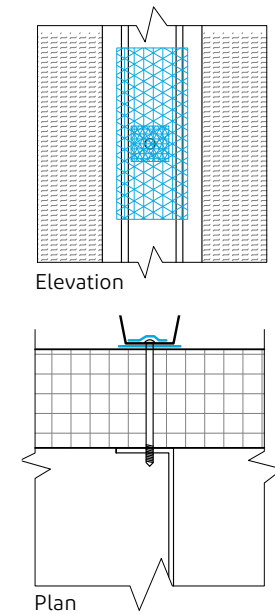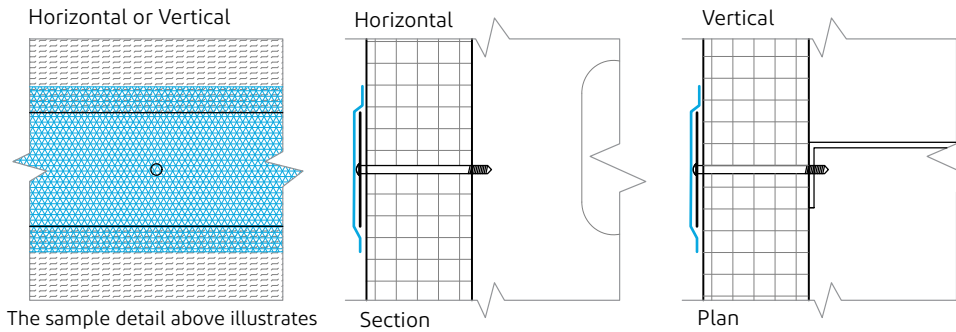## Figure 2: DuPont™ LiquidArmor™ Flashing and Sealant with Vertical Z-Girt

Elevation

Plan

The sample detail above illustrates DuPont™ LiquidArmor™ Flashing and Sealant applied underneath vertical Z-Girt and over fasteners. Options include:
· DuPont™ LiquidArmor™ **QS** (cured)
· DuPont™ LiquidArmor™ **LT** (wet or cured
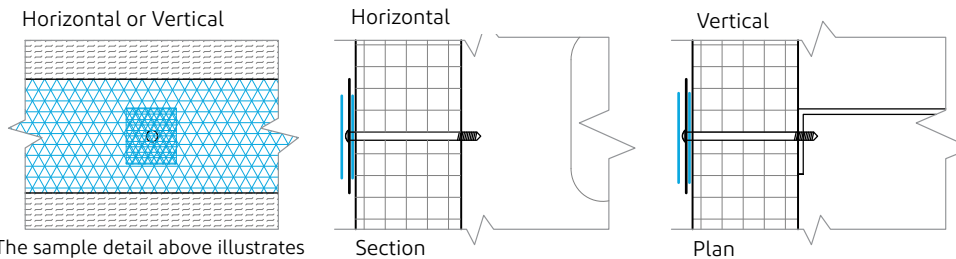· DuPont™ LiquidArmor™ **CM** (cured)

Figure 3: DuPont™ LiquidArmor™ Flashing and Sealant with Horizontal Hat Channel

Elevation

Section

The sample detail above illustrates DuPont™ LiquidArmor™ Flashing and Sealant applied underneath horizontal Hat Channel and over fasteners. Options include:
· DuPont™ LiquidArmor™ **QS** (cured)
· DuPont™ LiquidArmor™ **LT** (wet)
· DuPont™ LiquidArmor™ **CM** (cured)

Figure 4: DuPont™ LiquidArmor™ Flashing and Sealant with Vertical Hat Channel

Elevation

Plan

The sample detail above illustrates DuPont™ LiquidArmor™ Flashing and Sealant applied underneath vertical Hat Channel and over fasteners. Options include:
· DuPont™ LiquidArmor™ **QS** (cured)
· DuPont™ LiquidArmor™ **LT** (wet or cured)
· DuPont™ LiquidArmor™ **CM** (cured)

Figure 5a:
Seal Over Flat Strap

Horizontal or Vertical

Horizontal

Section

Vertical

Plan

The sample detail above illustrates DuPont™ LiquidArmor™ Flashing and Sealant applied over flat strap furring. Options include:
• DuPont™ LiquidArmor™ **QS**
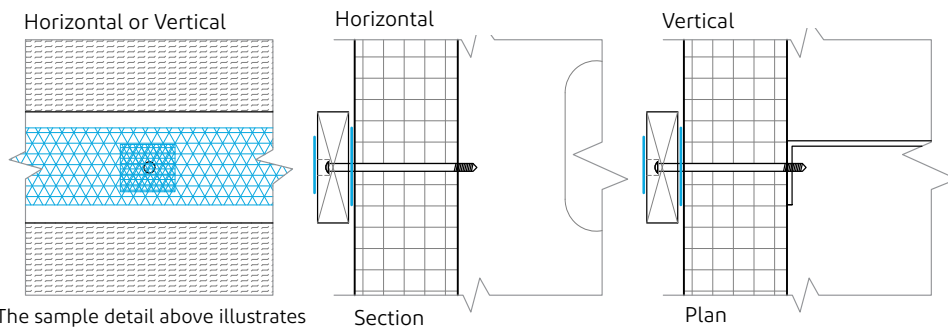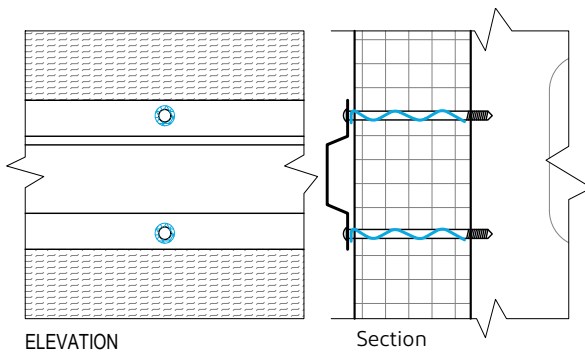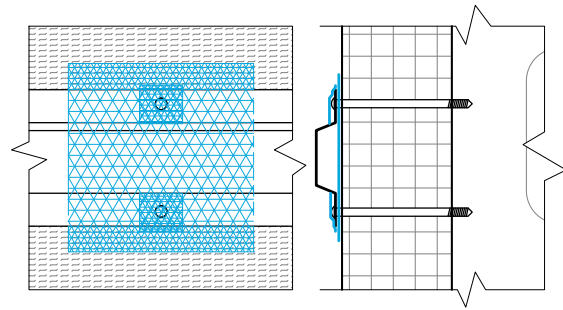• DuPont™ LiquidArmor™ **LT**
• DuPont™ LiquidArmor™ **CM**

Figure 5b:
Seal Under Flat Strap and Over Fasteners

Horizontal or Vertical

Horizontal

Section

Vertical

Plan

The sample detail above illustrates DuPont™ LiquidArmor™ Flashing and Sealant applied underneathflat strap furring and over fasteners.
Options include:
• DuPont™ LiquidArmor™ **QS** (cured)
• DuPont™ LiquidArmor™ **LT** (wet)

Figure 6: DuPont™ LiquidArmor™ Flashing and Sealant on Wood Furring

Horizontal or Vertical

Horizontal

Section

Vertical

Plan

The sample detail above illustrates DuPont™ LiquidArmor™ Flashing and Sealant applied underneath wood furring and over fasteners.
Options include:
• DuPont™ LiquidArmor™ **QS** (cured)
• DuPont™ LiquidArmor™ **LT** (wet)

Figure 7a: DuPont™ LiquidArmor™ Flashing and Sealant with Knight HCI™

ELEVATION   Section

The sample detail above illustrates DuPont™ LiquidArmor™ **LT** Flashing and Sealant wet dipped screws with Knight HCI™. Visit manufacturer website for installation instructions.

Figure 7b: DuPont™ LiquidArmor™ Flashing and Sealant with Knight HCI™

The sample detail above illustrates DuPont™ LiquidArmor™ Flashing and Sealant applied underneath Knight HCI™ and over fasteners. Options include:
• DuPont™ LiquidArmor™ **QS** (cured)
  Visit manufacturer website for installation instructions.

Figure 8: DuPont™ LiquidArmor™ Flashing and Sealant with Knight CI™
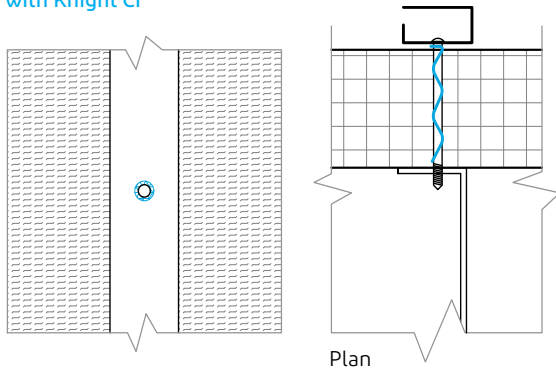
Plan

The sample detail above illustrates DuPont™ LiquidArmor™ **LT** Flashing and Sealant wet dipped screws with Knight CI®. Visit manufacturer website for installation instructions.

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For more information visit us at thermaxwallsystem.com or call 1-866-583-2583