

## PRODUCT BULLETIN

# StoVentro™ Sub-construction





### DESCRIPTION

StoVentro™ Sub-construction is an adjustable, thermally efficient structural system of brackets, rails, fasteners, and accessories for StoVentec® Systems and other rainscreen wall cladding assemblies. Safe and long-lasting, the sub-construction absorbs both the wind loads and dead loads present on the facade. Alongside structural suitability, the design of the sub-construction incorporates corrosion resistance and a reduction in thermal bridging, while also being quick and easy to install.

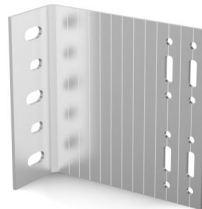
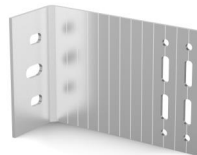
### STOVENTRO BRACKET – Zn-Al-Mg Coated Steel

StoVentro Steel Brackets are offered primarily in Zn-Al-Mg coated steel. Large Brackets (FP) transfer dead loads and wind loads to the primary structure. Small Brackets (GP) transfer only wind loads to the primary structure. A thermal break accessory is available with the brackets to minimize thermal bridging effects. *\*Zn-Al-Mg coated steel brackets up to 100mm depth are stocked in inventory. Deeper sizes, as well as stainless steel versions, are made to order and/or imported, requiring a lead time.*

	StoVentro Bracket Large Brackets (FP)	StoVentro Bracket Small Brackets (GP)	 
Thickness	2.0mm (1/8in)	2.0mm (1/16in)	
Height	130mm (5-1/8 in)	75mm (2-15/16in)	
Depth	25mm, 40mm – 360mm depth in 20mm increments (1-9/16in - 14-3/16in in 13/16in)		

### STOVENTRO BRACKET – ALUM

StoVentro Bracket – ALUM is an aluminum wall bracket. Large Brackets (FP) transfer dead loads and wind loads to the primary structure. Small Brackets (GP) transfer only wind loads to the primary structure. A thermal break accessory is available with the brackets to minimize thermal bridging effects. ALUM Bracket Sizes in stock until depletion: 40mm-120mm.

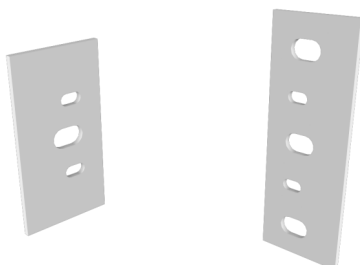
	StoVentro Bracket-ALUM Large Brackets (FP)	StoVentro Bracket-ALUM Small Brackets (GP)	 
Thickness	40mm-180mm Brackets 3.2mm (1/8in)	40mm-180mm Brackets 3.2mm (1/8in)	
	200mm-320mm Brackets 4.2mm (3/16in)	200mm-320mm Brackets 4.2mm (3/16in)	
Height	135mm (5-5/16 in)	95.5mm (3-3/4in)	
Depth	40mm – 320mm depth in 20mm increments (1-9/16in – 12-5/8in in 13/16in)		

## PRODUCT BULLETIN

# StoVentro™ Sub-construction


## STOVENTRO THERMAL BLOCKING ELEMENT

Thermal Blocking Element - 6mm (1/4in) thick thermal break accessory that isolates the wall bracket from thermal bridging effects of the primary structure, available in two sizes to match the footprint of the large or small bracket for the ALUM and Steel StoVentro Brackets.

	6mm Thermal Blocking Element	
Thickness	6mm (1/4in)	
Height	Matches corresponding ALUM & Steel brackets	
Hole Pattern	Matches corresponding ALUM & Steel brackets	

## STOVENTRO T-PROFILES and L-PROFILES


StoVentro T and L-Profiles are aluminum rails/profiles. The profiles are the supporting sub-construction for the rainscreen attachment profile or cladding. StoVentro T-Profiles come in two sizes for more flexibility of attaching rainscreen claddings. StoVentro L-Profiles are also used to stiffen outside corners at cantilevered sections of rainscreen cladding.

	StoVentro T-Profiles	StoVentro L-Profile	
Thickness	2.7mm (1/8in)	2.7mm (1/8in)	
Bearing Surface	90mm or 120mm (3-9/16in) or (4-3/4in)	40mm x 50mm (1-9/16in x 2in)	
Insertion Leg*	52.7mm (2in)	40mm or 50mm (1-9/16in or 2in)	
Length	Standard, 3m (9ft-10in)		
Adjustability*	Up to 30mm	Up to 30mm	

*\*The Insertion Leg is fastened to the brackets. With 25mm and 40mm Brackets, the standard T profile insertion leg is taller than the bracket thus governing the minimum system depth to 52.7mm (2 inches) and adjustability is reduced. Particularly with the 25mm bracket, alternative profiles are needed to achieve the shallowest possible system depth. Contact Sto for more information.*

## STOVENTRO EXTENSION BRACKETS



StoVentro Extension Brackets are made of Zn-Al-Mg coated steel or aluminum to fit with the respective brackets. The extension brackets allow for flexibility in the field. Extensions allow for up to 60mm of added depth from main brackets.

	StoVentro Steel Extension Brackets	StoVentro ALUM Extension Brackets	
Thickness	2.0mm (1/16in)	3.2mm (1/8in)	
Height	FP: 130.5mm (5-1/8in) GP: 75.5mm (3in)	FP: 135mm (5-5/16in) GP: 95.5mm (3-3/4in)	
Depth	100mm (3-15/16in)	100mm (3-15/16in)	
Hole Pattern	Matches corresponding bracket		

## PRODUCT BULLETIN




# StoVentro™ Sub-construction

### STOVENTRO SUB-CONSTRUCTION SCREWS

	The StoVentro Sub-construction Screw is a self-drilling, hexagonal head stainless steel screw with a hardened drill point and overtightening protection for attachment of StoVentro T-Profiles and StoVentro L-Profiles to StoVentro Brackets.
	The StoVentro Bracket to Steel Stud Fastener with washer, is a self-drilling hexagonal head stainless steel screw (Bi-Metal) with a hardened drill point for attachment of StoVentro Brackets to metal stud walls.
	Size: 1/4-14 x 2" (1/4in x 2in), 250 per bag


### PRODUCT LIST

For list all the SKUs, products, and photos, see StoVentro™ Product List.

Sto Corp. Part number	Category	Sub-category	Description	UOM	Qty per package	Image
09618-001	Bracket	Bkt, Alum	Bkt, Alum, FP, 40mm, 3.2mm	PC	20	
09618-002	Bracket	Bkt, Alum	Bkt, Alum, FP, 60mm, 3.2mm	PC	20	
09618-003	Bracket	Bkt, Alum	Bkt, Alum, FP, 80mm, 3.2mm	PC	20	
09618-004	Bracket	Bkt, Alum	Bkt, Alum, FP, 100mm, 3.2mm	PC	20	
09618-005	Bracket	Bkt, Alum	Bkt, Alum, FP, 120mm, 3.2mm	PC	20	
09618-006	Bracket	Bkt, Alum	Bkt, Alum, FP, 140mm, 3.2mm	PC	20	
09618-007	Bracket	Bkt, Alum	Bkt, Alum, FP, 160mm, 3.2mm	PC	20	
09618-008	Bracket	Bkt, Alum	Bkt, Alum, FP, 180mm, 3.2mm	PC	20	
09618-009	Bracket	Bkt, Alum	Bkt, Alum, FP, 200mm, 4.2mm	PC	20	
09618-010	Bracket	Bkt, Alum	Bkt, Alum, FP, 220mm, 4.2mm	PC	20	
09618-011	Bracket	Bkt, Alum	Bkt, Alum, FP, 240mm, 4.2mm	PC	20	
09618-012	Bracket	Bkt, Alum	Bkt, Alum, FP, 260mm, 4.2mm	PC	20	
09618-013	Bracket	Bkt, Alum	Bkt, Alum, FP, 280mm, 4.2mm	PC	20	
09618-014	Bracket	Bkt, Alum	Bkt, Alum, FP, 300mm, 4.2mm	PC	20	
09618-015	Bracket	Bkt, Alum	Bkt, Alum, FP, 320mm, 4.2mm	PC	20	
09619-001	Bracket	Bkt, Alum	Bkt, Alum, GP, 40mm, 3.2mm	PC	20	
09619-002	Bracket	Bkt, Alum	Bkt, Alum, GP, 60mm, 3.2mm	PC	20	
09619-003	Bracket	Bkt, Alum	Bkt, Alum, GP, 80mm, 3.2mm	PC	20	
09619-004	Bracket	Bkt, Alum	Bkt, Alum, GP, 100mm, 3.2mm	PC	20	
09619-005	Bracket	Bkt, Alum	Bkt, Alum, GP, 120mm, 3.2mm	PC	20	
09619-006	Bracket	Bkt, Alum	Bkt, Alum, GP, 140mm, 3.2mm	PC	20	
09619-007	Bracket	Bkt, Alum	Bkt, Alum, GP, 160mm, 3.2mm	PC	20	
09619-008	Bracket	Bkt, Alum	Bkt, Alum, GP, 180mm, 3.2mm	PC	20	
09619-009	Bracket	Bkt, Alum	Bkt, Alum, GP, 200mm, 4.2mm	PC	20	
09619-010	Bracket	Bkt, Alum	Bkt, Alum, GP, 200mm, 4.2mm	PC	20	
09619-011	Bracket	Bkt, Alum	Bkt, Alum, GP, 240mm, 4.2mm	PC	20	
09619-012	Bracket	Bkt, Alum	Bkt, Alum, GP, 260mm, 4.2mm	PC	20	
09619-013	Bracket	Bkt, Alum	Bkt, Alum, GP, 280mm, 4.2mm	PC	20	
09619-014	Bracket	Bkt, Alum	Bkt, Alum, GP, 300mm, 4.2mm	PC	20	
09619-015	Bracket	Bkt, Alum	Bkt, Alum, GP, 320mm, 4.2mm	PC	20	
81879-018	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 25mm, 2mm	PC	50	
81879-001	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 40mm, 2mm	PC	50	
81879-002	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 60mm, 2mm	PC	50	
81879-003	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 80mm, 2mm	PC	50	
81879-004	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 100mm, 2mm	PC	50	
81879-005	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 120mm, 2mm	PC	40	
81879-006	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 140mm, 2mm	PC	40	

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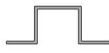
### StoVentro™ Sub-construction

81879-007	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 160mm, 2mm	PC	40	
81879-008	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 180mm, 2mm	PC	40	
81879-009	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 200mm, 2mm	PC	30	
81879-010	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 220mm, 2mm	PC	30	
81879-011	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 240mm, 2mm	PC	30	
81879-012	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 260mm, 2mm	PC	30	
81879-013	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 280mm, 2mm	PC	20	
81879-014	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 300mm, 2mm	PC	20	
81879-015	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 320mm, 2mm	PC	20	
81879-016	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 340mm, 2mm	PC	20	
81879-017	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, FP, 360mm, 2mm	PC	20	
<b>81880-018</b>	<b>Bracket</b>	<b>Bkt, Zn-Al-Mg</b>	<b>Bkt, ZM, GP, 25mm, 2mm</b>	<b>PC</b>	<b>100</b>	
<b>81880-001</b>	<b>Bracket</b>	<b>Bkt, Zn-Al-Mg</b>	<b>Bkt, ZM, GP, 40mm, 2mm</b>	<b>PC</b>	<b>100</b>	
<b>81880-002</b>	<b>Bracket</b>	<b>Bkt, Zn-Al-Mg</b>	<b>Bkt, ZM, GP, 60mm, 2mm</b>	<b>PC</b>	<b>100</b>	
<b>81880-003</b>	<b>Bracket</b>	<b>Bkt, Zn-Al-Mg</b>	<b>Bkt, ZM, GP, 80mm, 2mm</b>	<b>PC</b>	<b>100</b>	
<b>81880-004</b>	<b>Bracket</b>	<b>Bkt, Zn-Al-Mg</b>	<b>Bkt, ZM, GP, 100mm, 2mm</b>	<b>PC</b>	<b>100</b>	
81880-005	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 120mm, 2mm	PC	80	
81880-006	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 140mm, 2mm	PC	80	
81880-007	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 160mm, 2mm	PC	80	
81880-008	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 180mm, 2mm	PC	80	
81880-009	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 200mm, 2mm	PC	60	
81880-010	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 220mm, 2mm	PC	60	
81880-011	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 240mm, 2mm	PC	60	
81880-012	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 260mm, 2mm	PC	60	
81880-013	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 280mm, 2mm	PC	40	
81880-014	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 300mm, 2mm	PC	40	
81880-015	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 320mm, 2mm	PC	40	
81880-016	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 340mm, 2mm	PC	40	
81880-017	Bracket	Bkt, Zn-Al-Mg	Bkt, ZM, GP, 360mm, 2mm	PC	40	

Bold text indicates stocked brackets. Other sizes made to order.

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Sto Corp. Part number	Category	Sub-category	Description	UOM	Qty per package	Image
81747-003	Profile	Profile	T-rail, 90 X 52 X 2.7mm, 3m	PC	1	
81747-002	Profile	Profile	T-rail, 120 x 52 x 2.7mm, 3m	PC	1	
81803-001	Profile	Profile	L-rail, 50 X 40 X 2.7mm, 3m	PC	1	
81812-001	Profile	Profile	Agraffe Rail, 8, 10, or 12 ft	PC	1	
81812-002	Profile	Profile	Carrier Rail, 8, 10, or 12 ft	PC	1	
81812-003	Profile	Hanger	Carrier Rail Hanger, 4"	Box	100	
07090-004	Fastener	Leveling Screw	Carrier Rail/Hanger Adjusting Screw	PC	1	
81815-001	Profile	Profile	Hat Channel, ½", 8, 10, or 12 ft	PC	1	
81815-002	Profile	Profile	Hat Channel, 1", 8, 10, or 12 ft	PC	1	

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Sto Corp. Part number	Category	Sub-category	Description	UOM	Qty per package	Image
07025-009	Fastener	Fastener	Fastener, bkt to profile, Ventro HWH 5.5X22 MM, SS	PC	500	
81761-001	Fastener	Fastener	Fastener, bkt to steel stud, HWH 1/4-14 x 2" w/ wshr, SS, Bi-metal	PC	250	
07610-006	Accessory	Thermal isolator	Thermal Blocking Elem, FP, for Alum Bkt	PC	Inquire	
07610-007	Accessory	Thermal isolator	Thermal Blocking Elem, GP, for Alum Bkt	PC	Inquire	
07610-008	Accessory	Thermal isolator	Thermal Blocking Elem FP for Steel Bkt	PC	Inquire	
07610-009	Accessory	Thermal isolator	Thermal Blocking Elem GP for Steel Bkt	PC	Inquire	
81879-100	Accessory	Bracket extension	Extension, bkt, Zn-Al-Mg, FP	PC	35	
81880-100	Accessory	Bracket extension	Extension, bkt, Zn-Al-Mg, GP	PC	42	
81650-001	Accessory	Bracket extension	Extension, bkt, Alum, GP	PC	Inquire	
81650-002	Accessory	Bracket extension	Extension, bkt, Alum, FP	PC	Inquire	

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**ATTENTION**

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