

# VE7D Frame Cramp with Drip

Data sheet

Issue Date:  
April 2026

## Lateral Restraint Products

These products allow masonry walls to be restrained back to other elements of the structure. This could be pre-existing walls, or new or pre-existing steel work. The ties, once in position, prevent sideways movement between a wall and another structure.



## Product

### VE7D Frame Cramp with Drip

This frame cramp has a drip 90mm from the safety end to block moisture. Standard Type 2 **VE7D** available in lengths between 125mm and 300mm. **VE7D(T2)** and **VE7D(T1)** variants are both available in lengths between 325mm and 450mm.

### VE7D Frame Cramp with Drip (Type 2)

CODE	LENGTH	CAVITY	UNITS
VE7D-125-STST	125mm	50mm	250 Box
VE7D-150-STST	150mm	75mm	250 Box
VE7D-175-STST	175mm	100mm	250 Box
VE7D-200-STST	200mm	125mm	250 Box
VE7D-225-STST	225mm	150mm	200 Box
VE7D-255-STST	250mm	175mm	200 Box
VE7D-275-STST	275mm	200mm	200 Box
VE7D-300-STST	300mm	225mm	200 Box

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## Product

### VE7D(T2) Frame Cramp with Drip (Type 2)

CODE	LENGTH	CAVITY	UNITS
VE7D(T2) Type 2 Cramps			
VE7D(T2)-325-STST	325mm	250mm	Each
VE7D(T2)-350-STST	350mm	275mm	Each
VE7D(T2)-375-STST	375mm	300mm	Each
VE7D(T2)-400-STST	400mm	325mm	Each
VE7D(T2)-425-STST	425mm	350mm	Each
VE7D(T2)-450-STST	450mm	375mm	Each

### VE7D(T1) Frame Cramp with Drip (Type 1)

CODE	LENGTH	CAVITY	UNITS
VE7D(T1) Type 1 Cramps			
VE7D(T1)-325-STST	325mm	250mm	Each
VE7D(T1)-350-STST	350mm	275mm	Each
VE7D(T1)-375-STST	375mm	300mm	Each
VE7D(T1)-400-STST	400mm	325mm	Each
VE7D(T1)-425-STST	425mm	350mm	Each
VE7D(T1)-450-STST	450mm	375mm	Each



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## Testing

Tested as a Type 2 and Type 1 (Strength) tie.

VE7D (T2) 200 mm, 300 mm & 450 mm, and VE7D (T1) 450 mm stainless steel wall ties were tested in tension over nominal cavity widths of 135 mm, 235 mm, 385 mm, and 385 mm respectively, and in compression over the same cavity widths plus 15 mm. Testing was carried out in accordance with BS EN 846-6: Methods of Test for Ancillary Components for Masonry – Part 6: Determination of tensile and compressive load capacity and load-displacement characteristics of wall ties (Couplet Test). The VE7D (T2) 200 mm, 300 mm, and 450 mm ties were tested as Type 2 wall ties, while the VE7D (T1) 450 mm tie was tested as a Type 1 wall tie.

### Summary of Declared Values:

Length	125-200mm	225-300mm	325-450(T2)	325-450(T1)
Mortar End				
Tensile Load Capacity:	7760N	7760N	3100N	2630N
Compressive Load Capacity:	1600N	1470N	1250N	2140N
Displacement at 1/3 Load: Tension:	1.25mm	0.94mm	0.4mm	0.22mm
Displacement at 1/3 Load: Compression:	0.22mm	0.41mm	0.41mm	0.51mm
Steel End				
Tensile Load Capacity:	1320N	1320N	4740N	6070N
Compressive Load Capacity:	1770N	1470N	1710N	2950N
Displacement at 1/3 Load: Tension:	1.25mm	1.25mm	0.84mm	0.94mm
Displacement at 1/3 Load: Compression:	0.22mm	0.41mm	0.18mm	0.27mm

## Fixing Instructions

The frame cramp includes a central 7 mm hole to allow for fixing. The correct fixing method depends on the substrate, with guidance provided in the table below. When built into the masonry, the cramp should be embedded at least 50mm and no more than 75mm in the mortar joint. Vista Engineering recommend embedding the cramp 62.5mm into the mortar bed.

Substrate	Fixing
Concrete	Plug and screw or expansion bolt
Steel	Self drill and tap screw
Blockwork	Plug and screw
Timber	Stainless coach bolt or stainless wood screw

## Additional Information

Material – Manufactured from grade 304 stainless steel.

Behaviour in relation to fire – Non combustible (as defined in the national Building Regulations).

Durability – Excellent corrosion resistance and a service life of not less than 60 years.

Safety Precautions - May contain sharp edges. Suitable personal protection should always be used when handling/installing these products.