

## PRODUCT APPLICATION

Introducing VertiTrack®, a slotted deflection track improvement allowing for vertical movement in interior walls. This unique, patent-pending assembly enables a positive attachment between the track and stud flanges to prevent the transfer of forces into the drywall, which could cause damage and violate the fire rated assemblies.

## VERTITRACK® VT CONSTRUCTION ADVANTAGES

- ◆ Integral bushing provides for quick and accurate placement without the need to back out screws.
- ◆ Standard #8 Modified Truss-Head screws (minimum 11mm or 0.426" wide screw head) can be fully tightened.
- ◆ Load rated, positive mechanical attachment.
- ◆ Connection allows up to 1 1/2" total vertical deflection.
- ◆ Slots are spaced at 1" centers, allowing for virtually any stud spacing.
- ◆ Staggered guide holes in VertiTrack's web provide for structural attachment using PAF's or screws.
- ◆ Exceeds cycling standards found in ASTM E 1966 and UL2079. Rated for movement types I, II, and III.

## VERTITRACK® VT SECTION PROPERTIES

Section Designation	Design Thickness (in.)	Yield Strength (ksi)	Gross Properties									Torsional Properties				
			Area (in. <sup>2</sup> )	Weight (lbs/ft)	I <sub>x</sub> (in. <sup>4</sup> )	S <sub>x</sub> (in. <sup>3</sup> )	R <sub>x</sub> (in.)	I <sub>y</sub> (in. <sup>4</sup> )	S <sub>y</sub> (in. <sup>3</sup> )	R <sub>y</sub> (in.)	J <sub>x</sub> 1000 (in. <sup>4</sup> )	C <sub>w</sub> (in. <sup>6</sup> )	X <sub>o</sub> (in.)	R <sub>o</sub> (in.)	β	m (in.)
250VT250-33	0.0346	50	0.259	0.883	0.339	0.256	1.144	0.178	0.107	0.827	0.103	0.212	-1.892	2.36	0.358	1.056
362VT250-33			0.298	1.015	0.74	0.392	1.575	0.2	0.113	0.82	0.119	0.482	-1.719	2.472	0.516	0.992
400VT250-33			0.311	1.059	0.914	0.441	1.714	0.207	0.115	0.815	0.124	0.602	-1.67	2.528	0.564	0.973
600VT250-33			0.38	1.295	2.236	0.728	2.424	0.233	0.121	0.783	0.152	1.52	-1.451	2.932	0.755	0.88

Section Designation	Design Thickness (in.)	Yield Strength (ksi)	Effective Properties								
			Full Leg						Net (Slotted) Leg		
			I <sub>x</sub> (in. <sup>4</sup> )	S <sub>x</sub> (in. <sup>3</sup> )	M <sub>x</sub> (k-in.)	I <sub>y1</sub> (in. <sup>4</sup> )	S <sub>y1</sub> <sup>1</sup> (in. <sup>3</sup> )	M <sub>y1</sub> <sup>1</sup> (k-in.)	I <sub>y2</sub> (in. <sup>4</sup> )	S <sub>y2</sub> <sup>2</sup> (in. <sup>3</sup> )	M <sub>y2</sub> <sup>2</sup> (k-in.)
250VT250-33	0.0346	50	0.236	0.172	5.16	0.17	0.101	3.024	0.01	0.009	0.065
362VT250-33			0.528	0.272	8.131	0.177	0.102	3.067	0.01	0.009	0.067
400VT250-33			0.658	0.308	9.218	0.178	0.103	3.075	0.01	0.009	0.068
600VT250-33			1.669	0.448	13.421	0.183	0.104	3.104	0.011	0.01	0.071

Section Designation	Design Thickness (in.)	Yield Strength (ksi)	Effective Properties								
			Full Leg						Net (Slotted) Leg		
			I <sub>x</sub> (in. <sup>4</sup> )	S <sub>x</sub> (in. <sup>3</sup> )	M <sub>x</sub> (k-in.)	I <sub>y1</sub> <sup>1</sup> (in. <sup>4</sup> )	S <sub>y1</sub> <sup>1</sup> (in. <sup>3</sup> )	M <sub>y1</sub> <sup>1</sup> (k-in.)	I <sub>y2</sub> (in. <sup>4</sup> )	S <sub>y2</sub> <sup>2</sup> (in. <sup>3</sup> )	M <sub>y2</sub> <sup>2</sup> (k-in.)
250VT250-33	0.0346	50	0.118	0.089	2.915	0.082	0.038	1.144	0.082	0.038	1.144
362VT250-33			0.287	0.152	4.973	0.085	0.038	1.152	0.085	0.038	1.15
400VT250-33			0.366	0.177	5.764	0.086	0.039	1.153	0.086	0.038	1.151
600VT250-33			1.024	0.286	8.56	0.089	0.039	1.159	0.088	0.039	1.153

### Notes:

◆ Section properties and capacities are calculated in accordance with AISI-S100-07 Specification. ◆ Tabulated gross properties are based on the full, unreduced cross section of the track away from slots. ◆ Effective section properties incorporate the strength increase from cold work of forming as applicable per AISI-S100-07, Sec. A7.2. ◆ Net effective section properties are calculated at a cross section through the slot. ◆ For deflection calculations, use the effective moment of inertia (I<sub>x</sub>). This effective moment of inertia is calculated at a stress 0.6 F<sub>y</sub> (service load level). ◆ Properties (I<sub>y</sub>, S<sub>y</sub> and M<sub>y</sub>)<sup>1</sup> are based on the web element in compression while (I<sub>y</sub>, S<sub>y</sub> and M<sub>y</sub>)<sup>2</sup> are based on the web element in tension.

## UL CLASSIFIED HEAD OF WALL ASSEMBLIES

HW-D-0043, HW-D-0044, HW-D-0054, HW-D-0088, HW-D-0099, HW-D-0154, HW-D-0184, HW-D-0194, HW-D-0218, HW-D-0252, HW-D-0259, HW-D-0264, HW-D-0324, HW-D-0363, HW-D-0377, HW-D-0388, HW-D-0456, HW-D-0538, HW-D-0539, HW-D-0540, HW-D-0548, HW-D-0606

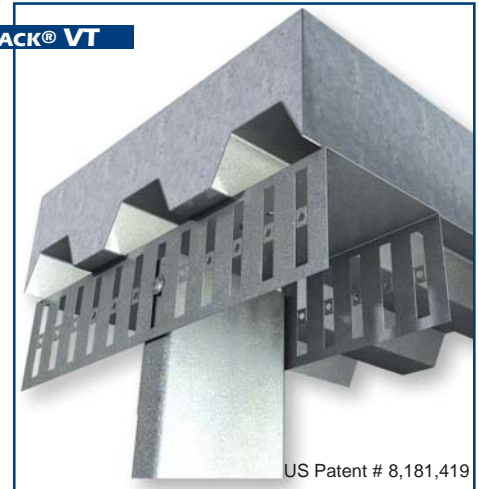
## LIMITING HEIGHTS

VertiTrack® VT	Wall Stud Thickness	Uniform Lateral Load (psf) and Stud Spacing (in)									Allowable Load (lbs)
		5 psf			10 psf			15 psf			
		12" o.c.	16" o.c.	24" o.c.	12" o.c.	16" o.c.	24" o.c.	12" o.c.	16" o.c.	24" o.c.	
XXXVT250-33 (50 ksi)	18 mil-25 ga to 33 mil-20 ga (or EQ Studs)	47' 2"	35' 5"	23' 7"	23' 7"	17' 8"	11' 9"	15' 18"	11' 9"	N/A	118

### Notes:

- ◆ Wall heights are based on allowable reaction load at top of the wall. ◆ Wall stud size should be determined independently. Wall heights based on stud strength and stiffness should be checked. ◆ Allowable loads are based on strength from track leg bending and strength from # 8 screw pullout from stud or pull through the track.
- ◆ VertiTrack® VT has a yield strength equal or greater than 50 ksi. ◆ Attach VertiTrack® VT pieces together at splice locations with a piece of stud

## VERTITRACK® VT



US Patent # 8,181,419

## MATERIAL COMPOSITION

Manufactured from certified ASTM A1003/A1003M Structural Grade 50 (340) Type H, ST50H (ST340H): 50ksi (340MPa) minimum yield strength, 65ksi (450MPa) minimum tensile strength, 33mil minimum thickness (20 gauge, 0.0346" design thickness) with ASTM A653/A653M G60 (Z180) hot dipped galvanized coating.

## PRODUCT QUANTITY/ ORDER INFORMATION

Section	Lbs/Ft	Pcs/Skid
250VT250-33	0.883	120
362VT250-33	1.015	160
400VT250-33	1.059	160
600VT250-33	1.295	96