

# CTSO – VAULT LOAD SPECIFICATIONS

Connect offers a full line up of vaults from Oldcastle Enclosure Solutions. With a product offering ranging from HDPE plastic pedestrian rated units to concrete deliberate traffic rated units, there is a vault designed for your application. All units are produced and tested within North America, ensuring that the units meet both environmental and testing requirements.



HDPE enclosures are easy to install and provide strong, durable, chemical and water resistant performance.

Load Categories:



Carson Hybrids are specially designed to interchange various lid materials with a HDPE body to maximize load ratings and at the highest value.

Load Categories:



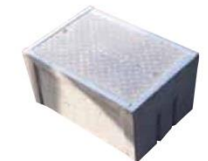
Synertech is engineered to combine the exceptional strength of High Density Polymer Concrete with the lightweight properties of Sheet Molding Compound to produce a tough, durable enclosure. Synertech is designed to eliminate water impregnation if holes are drilled unlike fiberglass bodies.

Load Categories:



Christy concrete is reliable and cost effective. With a galvanized steel cover in place, these boxes are traffic rated.

Load Categories:




## Load Rating Specifications

Tier 5 (Light Duty)			
Vertical Load Rating	22.2 Kn	5,000 lbs	Sidewalk applications with a safety factor for occasional non-deliberate vehicular traffic. Applies to HDPE vaults with HDPE Covers.
Vertical Test Load	33.3 Kn	7,500 lbs	
Lateral Design Load	28.7 Kpa	600 lbs/sq.ft.	
Lateral Test Load	43.1 Kpa	900 lbs/sq.ft.	

Tier 8 (Medium Duty)			
Vertical Load Rating	35.6 Kn	8,000 lbs	Sidewalk applications with a safety factor for non-deliberate vehicular traffic. Applies to HDPE Vaults with Polymer Concrete Covers or Aluminum Covers or Polymer Concrete Vaults with Aluminum Covers.
Vertical Test Load	53.4 Kn	12,000 lbs	
Lateral Design Load	28.7 Kpa	600 lbs/sq.ft.	
Lateral Test Load	43.1 Kpa	900 lbs/sq.ft.	

Tier 15 (Medium Duty)			
Vertical Load Rating	66.7 Kn	15,000 lbs	Driveway, parking lot, railroad right of way and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic. Applies to Polymer Concrete Vaults with Polymer Concrete Covers for sizes 24x36 in dimensions or less.
Vertical Test Load	100.1 Kn	22,500 lbs	
Lateral Design Load	38.3 Kpa	800 lbs/sq.ft.	
Lateral Test Load	57.5 Kpa	1,200 lbs/sq.ft.	

Tier 22 (Heavy Duty)			
Vertical Load Rating	100.1 Kn	22,500 lbs	Driveway, parking lot, railroad right of way and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic. Applies to Polymer Concrete Vaults with Polymer Concrete Covers for sizes 30x48 in dimensions or greater.
Vertical Test Load	150.1 Kn	33,750 lbs	
Lateral Design Load	38.3 Kpa	800 lbs/sq.ft.	
Lateral Test Load	57.5 Kpa	1,200 lbs/sq.ft.	

 Traffic Rated – Continuous Roadway Traffic			
Vehicle Class Rating		Up to Class 8	Deliberate traffic rated with steel cover; AASHTO H20-44 & HS20-44 compliant. Meets ASTM C-857 – A16 Heavy Traffic requirements. Applies to Concrete Vaults with Embedded Steel Cap Ring and Steel Checker Plate Cover.
Design Load		16,000 lbs	
Test Load		34,720 lbs	
GVW / Max Wheel Load		40,000 lbs / 16,000 lbs	

**CONNECT**  
telecommunications solutions inc.

650 Rupert Street | Unit #6 | Waterloo ON | N2V 2R8  
Phone: 519.748.4411 | 1-877-900-7996 | fax: 519.748.0466  
customerservice@connect-telcom.com

[www.connect-telcom.com](http://www.connect-telcom.com)