

Characteristic	USA Units	Truline 1200 Series	Metric Units	Truline 1200 Series	
Allowable Moment	theoretical	ft · lbs/ft	18,882	kNm/m	84.04
	apparent		11,211*		49.9*
Allowable Shear	lb/ft		17,689**	kN/m	258.2**
Section Modulus	theoretical	in ³ /ft	70.8	cm ³ /m	3,806.7
	apparent		42.0*		2,258.2*
Moment of Inertia	I ^t theoretical	in ⁴ /ft	416	cm ⁴ /m	56,811
	I ^a apparent		247*		33,732*
Modulus of Elasticity	psi		380,000	MPa	2,620
Tensile Strength	psi		6,300	MPa	43.4
Design Strength	psi		3,200***	MPa	22.1***
Impact Strength	in · lbs		2,560	kJ	0.3
Weight	lbs/ft		15.2	kg/m	22.6
Nominal Thickness****	in		0.375	mm	9.5
Section Depth	in		11.75	mm	298.5
Section Width	in		18	mm	457.2
Length	ft		custom	m	custom
Standard Packaging	Piles/ Bundle		8	Piles/ Bundle	8
Standard Color	Grey (other colors available)				
UV Protection	Yes				

Material

Outer Layer: UV-resistant virgin PVC compound

Inner Layer: Mixture of recycled & virgin PVC material

* Based on full scale performance test by Architectural Testing, Inc. Report #60103.01-122-44, not theoretical calculations.

** All pile sections must be filled with gravel to ensure the web is fully supported and the shear load is transferred from flange to flange by the fill material. Shear load must be applied by continuous beam or whaler on the face of the wall.

Note: A significantly stronger wall will be created using reinforced steel and concrete fill.

t I (theoretical) is moment of inertia as calculated for the shape and adjusted to a per foot basis.

a I (apparent) is moment of inertia determined experimentally by a full scale test and measuring the deflection of the wall. This is the value for moment of inertia that would predict the deflections that were measured across a range of known loads. This number is also adjusted to a per foot basis.

*** Based on published data by US Army Corps of Engineers Report #ERDC/ CRREL LR-03-19

**** For comparative purposes, the total material wall thickness listed should be doubled due to the Truline double wall design.

Report No. 60103.01-122-44

A performance test on the TRULINE 1200 series was conducted by **Architectural Testing, Inc.**, in November 2005. ATI is a premier testing, third party laboratory with a reputation for accuracy and integrity that attracts the world's top manufacturers of building products.. Location: 130 Derry Court, York, PA 17402, Ph (717) 764-7700.



Assembly of Parts (top view)

1200 U-Channel
18" wide x 11.75" deep

1201 Female End Cap

1202 Male End Cap

1203 45° Corner

1204 Reversing Connector

1205 Cross Tie

No warranty of any kind is made as to the suitability of Truline for a particular application or the results obtained there from. It is recommended to consult a professional engineer or contractor first.

CONTACT INFORMATION

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