



CONQUEST

CONQUER THE JOB

CONQUEST CONCRETE SCREWS

AVERAGE ULTIMATE LOADS FOR INSTALLATION OF 1/4" DIAMETER ANCHOR IN VARIOUS CANADIAN APPLICATION CONDITIONS

Hollow Concrete Block

Embedment	Installation Conditions					
	Normal (Ambient)		100% Saturated		Cold (-20°)	
	Tension	Shear	Tension	Shear	Tension	Shear
	lbs	lbs	lbs	lbs	lbs	lbs
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
1"	767 (3.4)	915 (4.1)	847 (3.8)	700 (3.1)	940 (4.2)	679 (3.0)
1-1/2"	1,155 (5.1)	762 (3.4)	1,329 (5.9)	551 (2.5)	1,404 (6.3)	886 (3.9)

Solid Concrete Block

Embedment	Installation Conditions					
	Normal (Ambient)		100% Saturated		Cold (-20°)	
	Tension	Shear	Tension	Shear	Tension	Shear
	lbs	lbs	lbs	lbs	lbs	lbs
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
1"	1,121 (5.0)	1,349 (6.0)	1,159 (5.2)	1,570 (7.0)	1,077 (4.8)	956 (4.3)
1-1/2"	2,257 (10.0)	1,056 (4.7)	1,886 (8.4)	1,155 (5.2)	2,004 (8.9)	1,401 (6.2)

30 MPa Concrete

Embedment	Installation Conditions					
	Normal (Ambient)		100% Saturated		Cold (-20°)	
	Tension	Shear	Tension	Shear	Tension	Shear
	lbs	lbs	lbs	lbs	lbs	lbs
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
1"	1,521 (6.8)	2,200 (9.8)	1,289 (5.7)	1,452 (6.5)	1,209 (5.4)	946 (4.2)
1-1/2"	2,444 (10.9)	1,456 (6.5)	2,439 (10.9)	1,575 (7.0)	2,611 (11.0)	1,607 (7.2)

The above technical data is based on the Ortech test report No: 96-J53-MO 163



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Technical Data

Screw Size	Embedment	5,000 psi Concrete		Hollow Concrete Block	
		Tension	Shear	Tension	Shear
		lbs	lbs	lbs	lbs
Inch	Inch	(kN)	(kN)	(kN)	(kN)
3/16"	1"	1,055 (4.69)	1,181 (5.25)	684 (3.04)	1,248 (5.55)
	1-1/2"	2,033 (9.04)	- -	770 (3.42)	- -
1/4"	1"	1,919 (8.54)	1,932 -	912 (4.06)	2,361 (10.50)
	1-1/2"	2,798 (12.45)	- -	1,995 (8.87)	- -

Note: 1-1/2" embedment is not recommended in extreme hard or dense materials.

Specifications:

The following sample specification clause is arranged for inclusion in any one of a variety of master specification sections utilizing the Construction Specifications United States format. Brackets [] indicate alternatives, data required, or need for the specifier to fill in information.