

BUILDBLOCK BUILDING SYSTEMS GLOBALBLOCK ENGINEERING TABLES

GLOBALBLOCK 400 High Wind Load Reinforcement Requirements 1 Story Structure

Wall Height	WIND SPEED - EXPOSURE CATEGORY B											
	100 mph		120 mph		140 mph		160 mph		180 mph		200 mph	
	Vasd = 77 mph		Vasd = 93 mph		Vasd = 108 mph		Vasd = 124 mph		Vasd = 139 mph		Vasd = 155 mph	
	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal
8'	#4 @ 24"	#3 @ 16"	#4 @ 24"	#3 @ 16"	#4 @ 24"	#3 @ 16"	#4 @ 24"	#3 @ 16"	#4 @ 24"	#3 @ 16"	#4 @ 24"	#3 @ 16"
10'	#4 @ 12"	#3 @ 16"	#4 @ 12"	#3 @ 16"	#4 @ 12"	#3 @ 16"	#4 @ 12"	#3 @ 16"	#4 @ 12"	#3 @ 16"	#4 @ 12"	#3 @ 16"
12'	-	-	-	-	-	-	-	-	-	-	-	-

Wall Height	WIND SPEED - EXPOSURE CATEGORY C											
	100 mph		120 mph		140 mph		160 mph		180 mph		200 mph	
	Vasd = 77 mph		Vasd = 93 mph		Vasd = 108 mph		Vasd = 124 mph		Vasd = 139 mph		Vasd = 155 mph	
	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal
8'	#4 @ 24"	#3 @ 16"	#4 @ 24"	#3 @ 16"	#4 @ 24"	#3 @ 16"	#4 @ 24"	#3 @ 16"	#4 @ 24"	#3 @ 16"	#4 @ 24"	#3 @ 16"
10'	#4 @ 12"	#3 @ 16"	#4 @ 12"	#3 @ 16"	#4 @ 12"	#3 @ 16"	#4 @ 12"	#3 @ 16"	#4 @ 12"	#3 @ 16"	#4 @ 12"	#3 @ 16"
12'	-	-	-	-	-	-	-	-	-	-	-	-

ASSUMPTIONS:

- Dead load = 25 psf.
- Live floor load = 40 psf.
- Live roof load = 20 psf.
- No snow load.
- No seismic load.
- Maximum clear span for floor trusses is 24'-0".
- Maximum clear span for roof trusses is 40'-0".
- Maximum mean roof height is 30'-0".
- Maximum (1) stories.
- Concrete strength: $f'c = 3,000$ psi
- Reinforcement steel strength: $f_y = 60,000$ psi

	 <p>BUILDBLOCK BUILDING SYSTEMS, LLC 9705 N. Broadway Extension, Suite 200, Oklahoma City, OK 73114 Office: 405-840-3386 Toll Free: 866-222-2575 Fax: 831-597-0792 buildblock.com store.buildblock.com</p>	<p>TABLE NUMBER 10-B</p>
---	--	--