

BUILDBLOCK BUILDING SYSTEMS GLOBALBLOCK ENGINEERING TABLES

GLOBALBLOCK 400 High Wind Load Reinforcement Requirements 2 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 @ 12" | #3 @ 16" | #4 @ 12" | #3 @ 16" | #4 @ 12" | #3 @ 16" | #4 @ 12" | #3 @ 16" | #4 @ 12" | #3 @ 16" | #4 @ 12" | #3 @ 16" |
| 10' | - | - | - | - | - | - | - | - | - | - | - | - |
| 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 @ 12" | #3 @ 16" | #4 @ 12" | #3 @ 16" | #4 @ 12" | #3 @ 16" | #5 @ 12" | #3 @ 16" | - | - | - | - |
| 10' | - | - | - | - | - | - | - | - | - | - | - | - |
| 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 (2) stories.
- Concrete strength: $f'_c = 3,000$ psi
- Reinforcement steel strength: $f_y = 60,000$ psi

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|  |  <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-C</p> |
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