



# STRUCTURAL DESIGN PRESSURE FOR PINNACLE CLAD 3 1/4" FRAME MULLIONS

*(Includes Standard and High Performance)*

When mulling window units in the various combinations, it is important the entire mulled combination comply with local wind load requirements. To ensure the mulled combination complies with local codes and requirements, the wind load of the entire mulled combination must be determined. The following three steps will assist in determining the structural wind load of the mulled combination:

1. Determine the local building code PSF requirements
2. Choose the individual units needed to meet the local building code PSF and Performance Grade (PG) requirements.  
*Individual unit performance data can be found at [www.windsorwindows.com](http://www.windsorwindows.com)*
3. Choose the mulling combination and mulling type that meets the local building code PSF requirement from the following combination mulling charts.
4. Additional fasteners at the mullion ends will be required during the installation. See [www.windsorwindows.com](http://www.windsorwindows.com) for further installation details when installing mulled products.



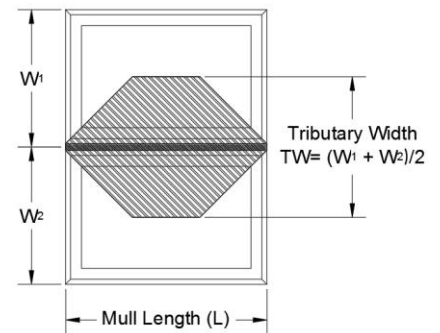
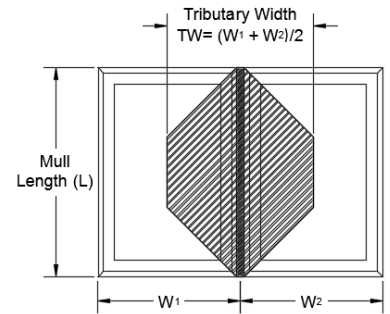
**WINDSOR**  
WINDOWS & DOORS  
A Woodgrain Millwork Company

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(Includes Standard and High Performance)

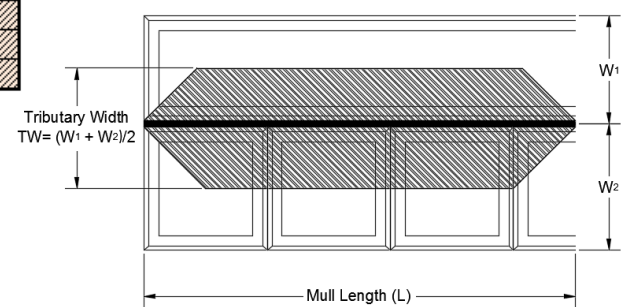
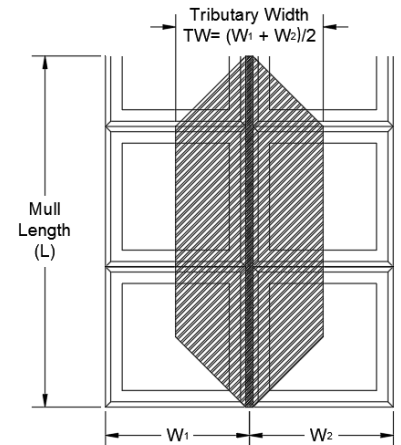
| Zero Mull           |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| One - Way           |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L- Mull Length (in) | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 54  | 75                        | 75 | 75 | 69 | 64 | 61 | 60 | 59 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 |
|                     | 60  | 75                        | 66 | 59 | 54 | 50 | 47 | 45 | 44 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 |
|                     | 66  | 61                        | 54 | 48 | 43 | 40 | 37 | 35 | 34 | 33 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
|                     | 72  | 50                        | 43 | 39 | 35 | 32 | 30 | 29 | 27 | 26 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
|                     | 78  | 39                        | 34 | 30 | 27 | 25 | 23 | 22 | 21 | 20 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
|                     | 84  | 31                        | 27 | 24 | 21 | 19 | 18 | 17 | 16 | 15 | 15 |    |    |    |    |    |    |    |    |    |
|                     | 90  | 25                        | 22 | 19 | 17 | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 96  | 20                        | 18 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 102 | 17                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 108 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 114 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 120 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 126 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 132 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 138                 |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 144                 |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines



| Zero Mull           |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Two - Way           |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L- Mull Length (in) | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 71 | 66 | 62 | 59 | 56 | 53 | 51 | 48 | 46 | 44 |
|                     | 48  | 75                        | 75 | 75 | 74 | 67 | 61 | 55 | 51 | 48 | 44 | 42 | 39 | 37 | 35 | 33 | 32 | 30 | 29 | 28 |
|                     | 60  | 71                        | 61 | 53 | 47 | 43 | 39 | 35 | 33 | 30 | 28 | 26 | 25 | 23 | 22 | 21 | 20 | 19 | 18 | 17 |
|                     | 72  | 48                        | 41 | 36 | 32 | 28 | 26 | 24 | 22 | 20 | 19 | 18 | 17 | 16 | 15 |    |    |    |    |    |
|                     | 84  | 30                        | 26 | 22 | 20 | 18 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 96  | 20                        | 17 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 108 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 120 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 132 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 144 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 156 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 168 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 180 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 192 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 204 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 216 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 228                 |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 240                 |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

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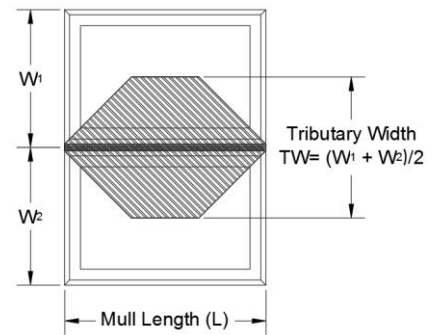
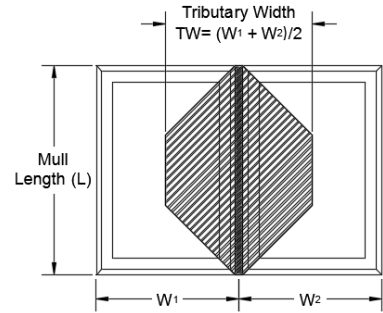




# STRUCTURAL DESIGN PRESSURE FOR PINNACLE CLAD 3 1/4" FRAME MULLIONS

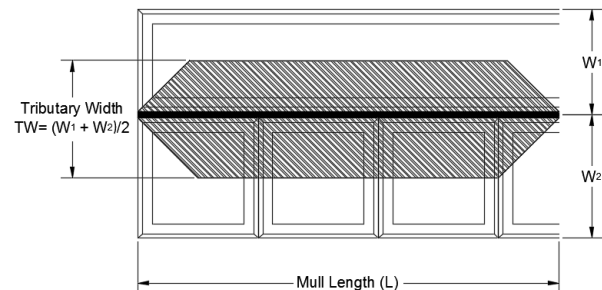
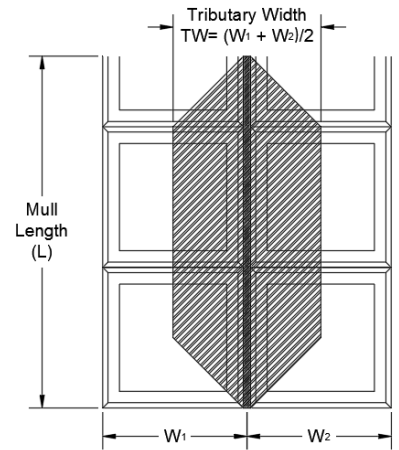
(Includes Standard and High Performance)

| 1" Spread Mull      |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| One - Way           |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L- Mull Length (in) | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 54  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 66  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 74 | 72 | 71 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
|                     | 72  | 75                        | 75 | 75 | 75 | 74 | 70 | 66 | 64 | 62 | 61 | 60 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 |
|                     | 78  | 75                        | 75 | 75 | 71 | 66 | 62 | 58 | 55 | 53 | 51 | 50 | 49 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
|                     | 84  | 75                        | 71 | 63 | 57 | 52 | 48 | 45 | 43 | 41 | 39 | 38 | 37 | 36 | 36 | 35 | 35 | 35 | 35 | 35 |
|                     | 90  | 66                        | 57 | 51 | 46 | 42 | 39 | 36 | 34 | 32 | 31 | 30 | 29 | 28 | 27 | 27 | 27 | 27 | 27 | 27 |
|                     | 96  | 54                        | 47 | 42 | 37 | 34 | 31 | 29 | 27 | 26 | 25 | 24 | 23 | 22 | 22 | 21 | 21 | 21 | 21 | 20 |
|                     | 102 | 45                        | 39 | 34 | 31 | 28 | 26 | 24 | 22 | 21 | 20 | 19 | 19 | 18 | 17 | 17 | 17 | 16 | 16 | 16 |
|                     | 108 | 38                        | 33 | 29 | 26 | 23 | 22 | 20 | 19 | 18 | 17 | 16 | 15 | 15 |    |    |    |    |    |    |
|                     | 114 | 32                        | 28 | 24 | 22 | 20 | 18 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |
|                     | 120 | 27                        | 24 | 21 | 19 | 17 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 126 | 24                        | 20 | 18 | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 132 | 20                        | 18 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 138                 | 18  | 15                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 144                 | 16  |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |



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|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Two - Way           |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L- Mull Length (in) | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 71 | 66 | 62 | 59 | 56 | 53 | 51 | 48 | 46 | 44 |    |
|                     | 48  | 75                        | 75 | 75 | 75 | 73 | 66 | 61 | 57 | 53 | 50 | 47 | 44 | 42 | 40 | 38 | 36 | 34 | 33 |    |
|                     | 60  | 75                        | 75 | 75 | 71 | 64 | 58 | 53 | 49 | 45 | 42 | 40 | 37 | 35 | 33 | 32 | 30 | 29 | 27 | 26 |
|                     | 72  | 75                        | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 | 36 | 33 | 31 | 29 | 28 | 27 | 25 | 24 | 23 | 22 |
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|                     | 144 | 15                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 156 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 168 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 180 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 192 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 204 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 216 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 228                 |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 240                 |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |



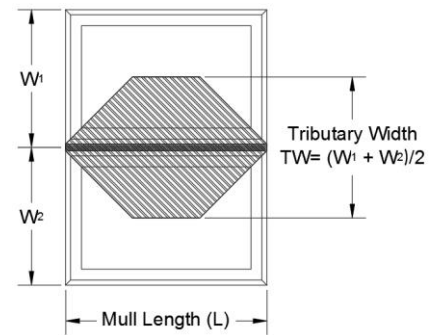
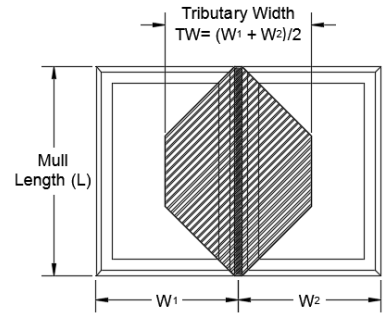
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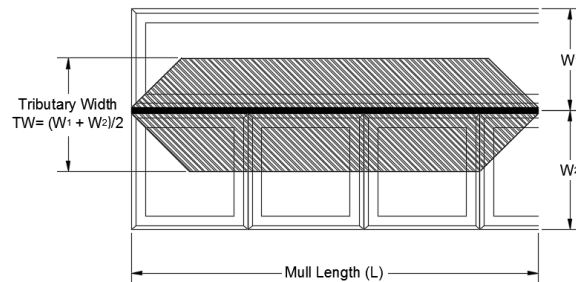
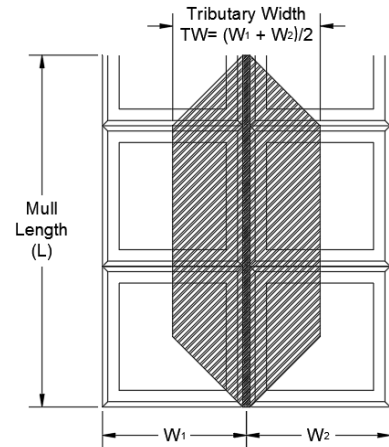
(Includes Standard and High Performance)

| 2" Spread Mull       |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| One - Way            |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L - Mull Length (in) | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                      | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                      | 54  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                      | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                      | 66  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 74 | 72 | 71 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
|                      | 72  | 75                        | 75 | 75 | 75 | 74 | 70 | 66 | 64 | 62 | 61 | 60 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 |
|                      | 78  | 75                        | 75 | 75 | 71 | 66 | 62 | 59 | 57 | 55 | 53 | 52 | 51 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
|                      | 84  | 75                        | 75 | 70 | 64 | 60 | 56 | 52 | 49 | 47 | 45 | 43 | 42 | 41 | 40 | 40 | 40 | 40 | 40 | 40 |
|                      | 90  | 75                        | 72 | 63 | 57 | 52 | 48 | 45 | 42 | 40 | 38 | 36 | 35 | 34 | 33 | 33 | 32 | 32 | 32 | 32 |
|                      | 96  | 73                        | 63 | 55 | 50 | 45 | 42 | 39 | 36 | 34 | 32 | 31 | 30 | 29 | 28 | 28 | 27 | 27 | 26 | 26 |
|                      | 102 | 64                        | 55 | 49 | 44 | 40 | 36 | 34 | 32 | 30 | 28 | 27 | 26 | 25 | 24 | 23 | 23 | 23 | 22 | 22 |
|                      | 108 | 57                        | 49 | 43 | 39 | 35 | 32 | 30 | 28 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 20 | 19 | 19 | 19 |
|                      | 114 | 51                        | 44 | 39 | 35 | 31 | 29 | 27 | 25 | 23 | 22 | 21 | 20 | 19 | 18 | 18 | 17 | 17 | 16 | 16 |
|                      | 120 | 45                        | 38 | 34 | 30 | 27 | 25 | 23 | 22 | 20 | 19 | 18 | 17 | 17 | 16 | 16 | 15 | 15 |    |    |
|                      | 126 | 38                        | 33 | 29 | 26 | 24 | 22 | 20 | 19 | 17 | 16 | 16 | 15 |    |    |    |    |    |    |    |
|                      | 132 | 33                        | 29 | 25 | 22 | 20 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |
| 138                  | 29  | 25                        | 22 | 20 | 18 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 144                  | 26  | 22                        | 19 | 17 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |



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|----------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Two - Way            |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L - Mull Length (in) | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 71 | 66 | 62 | 59 | 56 | 53 | 51 | 48 | 46 | 44 |
|                      | 48  | 75                        | 75 | 75 | 75 | 75 | 73 | 66 | 61 | 57 | 53 | 50 | 47 | 44 | 42 | 40 | 38 | 36 | 34 | 33 |
|                      | 60  | 75                        | 75 | 75 | 71 | 64 | 58 | 53 | 49 | 45 | 42 | 40 | 37 | 35 | 33 | 32 | 30 | 29 | 27 | 26 |
|                      | 72  | 75                        | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 | 35 | 33 | 31 | 29 | 28 | 26 | 25 | 24 | 23 | 22 |
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|                      | 168 | 16                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                      | 180 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                      | 192 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                      | 204 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                      | 216 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 228                  |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 240                  |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |



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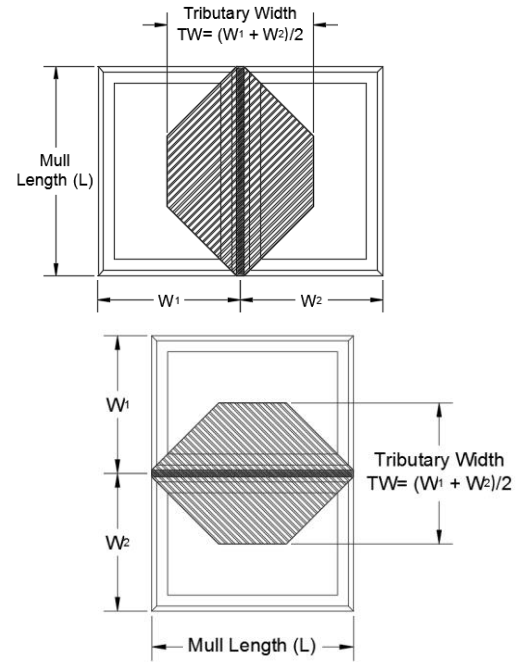




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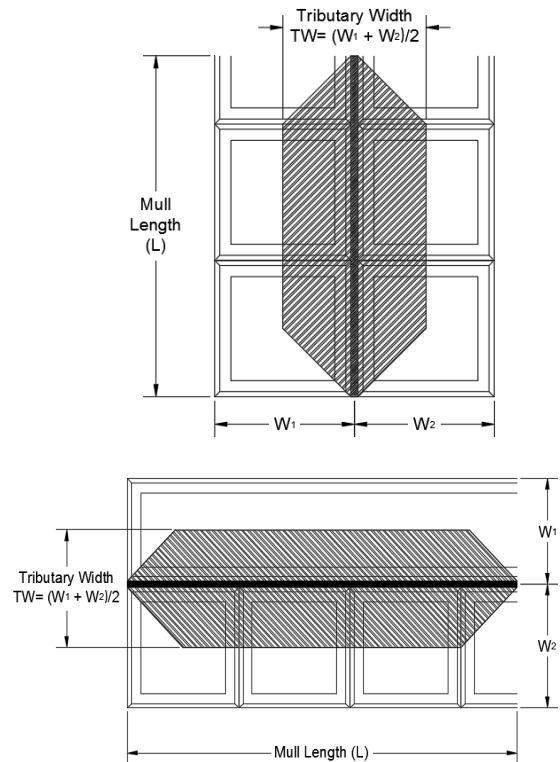
(Includes Standard and High Performance)

| 4" Spread Mull One - Way |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                          |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L- Mull Length (in)      | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 54  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 66  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 74 | 72 | 71 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
|                          | 72  | 75                        | 75 | 75 | 75 | 74 | 70 | 66 | 64 | 62 | 61 | 60 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 |
|                          | 78  | 75                        | 75 | 75 | 71 | 66 | 62 | 59 | 57 | 55 | 53 | 52 | 51 | 51 | 50 | 50 | 50 | 50 | 50 | 50 |
|                          | 84  | 75                        | 75 | 70 | 64 | 60 | 56 | 53 | 51 | 49 | 47 | 46 | 45 | 44 | 44 | 43 | 43 | 43 | 43 | 43 |
|                          | 90  | 75                        | 72 | 65 | 59 | 55 | 51 | 48 | 46 | 44 | 42 | 41 | 40 | 39 | 39 | 38 | 38 | 38 | 38 | 38 |
|                          | 96  | 75                        | 67 | 60 | 54 | 50 | 47 | 44 | 42 | 40 | 38 | 37 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 33 |
|                          | 102 | 71                        | 62 | 56 | 51 | 47 | 43 | 41 | 39 | 37 | 35 | 34 | 33 | 32 | 31 | 31 | 30 | 30 | 29 | 29 |
|                          | 108 | 66                        | 58 | 52 | 47 | 43 | 40 | 38 | 36 | 34 | 32 | 31 | 30 | 29 | 29 | 28 | 27 | 27 | 27 | 26 |
|                          | 114 | 62                        | 55 | 49 | 44 | 41 | 38 | 35 | 33 | 32 | 30 | 29 | 28 | 27 | 26 | 26 | 25 | 25 | 24 | 24 |
|                          | 120 | 59                        | 51 | 46 | 42 | 38 | 35 | 33 | 31 | 29 | 28 | 27 | 26 | 25 | 24 | 24 | 23 | 22 | 22 | 21 |
|                          | 126 | 56                        | 49 | 43 | 39 | 36 | 33 | 30 | 28 | 26 | 25 | 24 | 22 | 21 | 21 | 20 | 19 | 19 | 18 | 18 |
|                          | 132 | 50                        | 43 | 38 | 34 | 31 | 28 | 26 | 24 | 23 | 21 | 20 | 19 | 18 | 18 | 17 | 16 | 16 | 16 | 15 |
| 138                      | 44  | 38                        | 33 | 30 | 27 | 24 | 23 | 21 | 20 | 18 | 17 | 17 | 16 | 15 | 15 |    |    |    |    |    |
| 144                      | 38  | 33                        | 29 | 26 | 23 | 21 | 20 | 18 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |



- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines

| 4" Spread Mull Two - Way |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                          |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L- Mull Length (in)      | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 71 | 66 | 62 | 59 | 56 | 53 | 51 | 48 | 46 | 44 |    |
|                          | 48  | 75                        | 75 | 75 | 75 | 75 | 73 | 66 | 61 | 57 | 53 | 50 | 47 | 44 | 42 | 40 | 38 | 36 | 34 | 33 |
|                          | 60  | 75                        | 75 | 75 | 71 | 64 | 58 | 53 | 49 | 45 | 42 | 40 | 37 | 35 | 33 | 32 | 30 | 29 | 27 | 26 |
|                          | 72  | 75                        | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 | 35 | 33 | 31 | 29 | 28 | 26 | 25 | 24 | 23 | 22 |
|                          | 84  | 75                        | 65 | 57 | 51 | 45 | 41 | 38 | 35 | 32 | 30 | 28 | 27 | 25 | 24 | 22 | 21 | 20 | 19 | 19 |
|                          | 96  | 66                        | 57 | 50 | 44 | 40 | 36 | 33 | 30 | 28 | 26 | 25 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
|                          | 108 | 59                        | 51 | 44 | 39 | 35 | 32 | 29 | 27 | 25 | 23 | 22 | 21 | 19 | 18 | 17 | 17 | 16 | 15 |    |
|                          | 120 | 53                        | 45 | 40 | 35 | 32 | 29 | 26 | 24 | 22 | 21 | 20 | 18 | 17 | 16 | 16 | 15 |    |    |    |
|                          | 132 | 48                        | 41 | 36 | 32 | 29 | 26 | 24 | 22 | 20 | 19 | 18 | 17 | 16 | 15 |    |    |    |    |    |
|                          | 144 | 38                        | 33 | 28 | 25 | 23 | 21 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |
|                          | 156 | 30                        | 26 | 22 | 20 | 18 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |
|                          | 168 | 24                        | 20 | 18 | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                          | 180 | 19                        | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                          | 192 | 16                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                          | 204 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                          | 216 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 228                      |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 240                      |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |



- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines

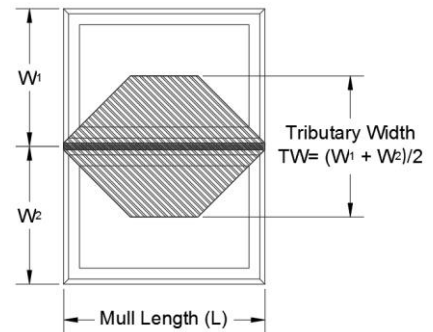
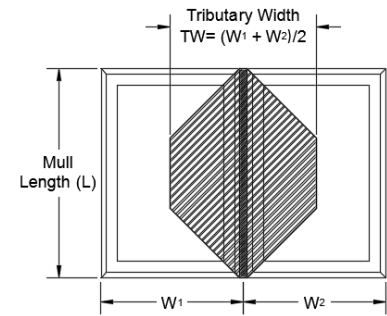


# STRUCTURAL DESIGN PRESSURE FOR PINNACLE CLAD 3 1/4" FRAME MULLIONS

(Includes Standard and High Performance)

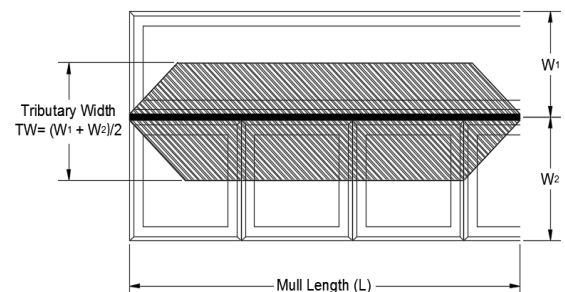
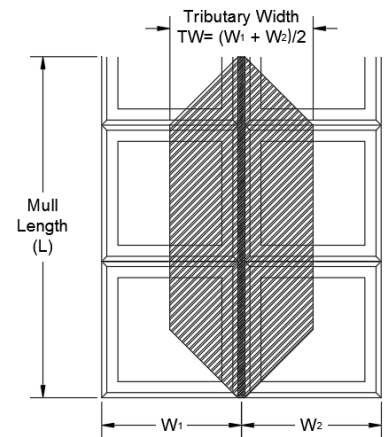
For reference only: Structural Steel to be provided by others

| 1/4" x 4" Steel<br>One - Way |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|------------------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
|                              |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |  |
| L- Mull Length (in)          | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |  |
|                              | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |  |
|                              | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |  |
|                              | 72  | 75                        | 75 | 75 | 75 | 74 | 70 | 66 | 64 | 62 | 61 | 60 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 |  |
|                              | 84  | 75                        | 75 | 70 | 64 | 60 | 56 | 53 | 51 | 49 | 47 | 46 | 45 | 44 | 44 | 43 | 43 | 43 | 43 | 43 |  |
|                              | 96  | 75                        | 67 | 60 | 54 | 50 | 47 | 44 | 42 | 40 | 38 | 37 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 33 |  |
|                              | 108 | 66                        | 58 | 52 | 47 | 43 | 40 | 38 | 36 | 34 | 32 | 31 | 30 | 29 | 29 | 28 | 27 | 27 | 27 | 26 |  |
|                              | 120 | 59                        | 51 | 46 | 42 | 38 | 35 | 33 | 31 | 29 | 28 | 27 | 26 | 25 | 24 | 24 | 23 | 23 | 22 | 22 |  |
|                              | 132 | 53                        | 46 | 41 | 37 | 33 | 30 | 28 | 26 | 25 | 23 | 22 | 21 | 20 | 19 | 18 | 18 | 17 | 17 | 16 |  |
|                              | 144 | 42                        | 36 | 31 | 28 | 25 | 23 | 21 | 20 | 19 | 17 | 17 | 16 | 15 |    |    |    |    |    |    |  |
|                              | 156 | 33                        | 28 | 25 | 22 | 20 | 18 | 17 | 15 |    |    |    |    |    |    |    |    |    |    |    |  |
|                              | 168 | 26                        | 22 | 20 | 17 | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                              | 180 | 21                        | 18 | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                              | 192 | 17                        | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                              | 204 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                              | 216 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 228                          |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 240                          |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |



- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines

| 1/4" x 4" Steel<br>Two - Way |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|------------------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
|                              |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |  |
| L- Mull Length (in)          | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 71 | 66 | 62 | 59 | 56 | 53 | 51 | 48 | 46 | 44 |    |  |
|                              | 48  | 75                        | 75 | 75 | 75 | 75 | 73 | 66 | 61 | 57 | 53 | 50 | 47 | 44 | 42 | 40 | 38 | 36 | 34 | 33 |  |
|                              | 60  | 75                        | 75 | 75 | 71 | 64 | 58 | 53 | 49 | 45 | 42 | 40 | 37 | 35 | 33 | 32 | 30 | 29 | 27 | 26 |  |
|                              | 72  | 75                        | 76 | 66 | 59 | 53 | 48 | 44 | 41 | 38 | 35 | 33 | 31 | 29 | 28 | 26 | 25 | 24 | 23 | 22 |  |
|                              | 84  | 75                        | 65 | 57 | 51 | 45 | 41 | 38 | 35 | 32 | 30 | 28 | 27 | 25 | 24 | 22 | 21 | 20 | 19 | 19 |  |
|                              | 96  | 66                        | 57 | 50 | 44 | 40 | 36 | 33 | 30 | 28 | 26 | 25 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |  |
|                              | 108 | 59                        | 51 | 44 | 39 | 35 | 32 | 29 | 27 | 25 | 23 | 22 | 21 | 19 | 18 | 17 | 17 | 16 | 15 |    |  |
|                              | 120 | 53                        | 45 | 40 | 35 | 32 | 29 | 26 | 24 | 22 | 21 | 20 | 18 | 17 | 16 | 16 | 15 |    |    |    |  |
|                              | 132 | 48                        | 41 | 36 | 32 | 29 | 26 | 24 | 22 | 20 | 19 | 18 | 17 | 16 | 15 |    |    |    |    |    |  |
|                              | 144 | 41                        | 35 | 31 | 27 | 25 | 22 | 20 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |  |
|                              | 156 | 32                        | 28 | 24 | 21 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |    |  |
|                              | 168 | 26                        | 22 | 19 | 17 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                              | 180 | 21                        | 18 | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                              | 192 | 17                        | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                              | 204 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                              | 216 |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 228                          |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 240                          |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |



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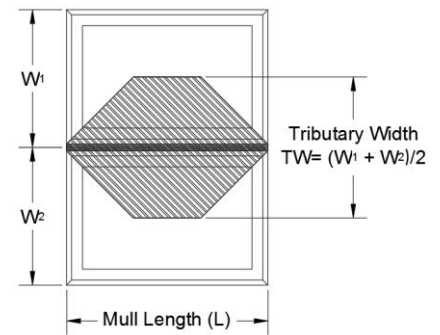
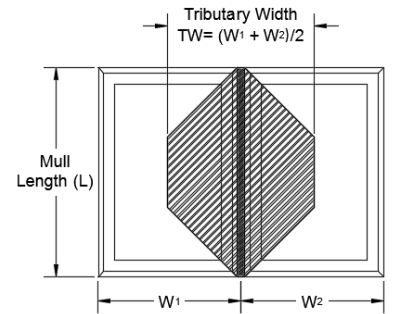


# STRUCTURAL DESIGN PRESSURE FOR PINNACLE CLAD 3 1/4" FRAME MULLIONS

(Includes Standard and High Performance)

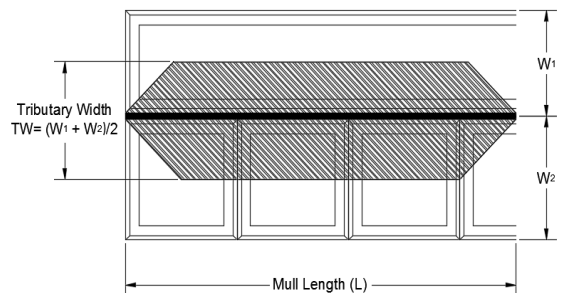
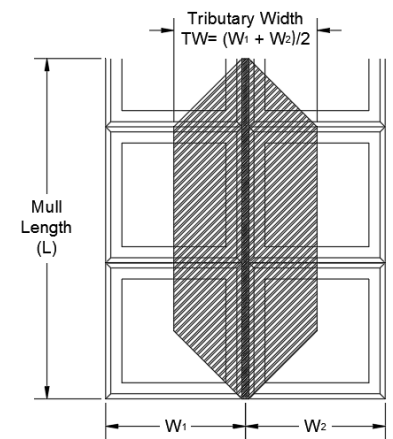
For reference only: Structural Steel to be provided by others

| 1/2" x 4" Steel     |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| One - Way           |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L- Mull Length (in) | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 72  | 75                        | 75 | 75 | 75 | 74 | 70 | 66 | 64 | 62 | 61 | 60 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 |
|                     | 84  | 75                        | 75 | 70 | 64 | 60 | 56 | 53 | 51 | 49 | 47 | 46 | 45 | 44 | 44 | 43 | 43 | 43 | 43 | 43 |
|                     | 96  | 75                        | 67 | 60 | 54 | 50 | 47 | 44 | 42 | 40 | 38 | 37 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 33 |
|                     | 108 | 66                        | 58 | 52 | 47 | 43 | 40 | 38 | 36 | 34 | 32 | 31 | 30 | 29 | 29 | 28 | 27 | 27 | 27 | 26 |
|                     | 120 | 59                        | 51 | 46 | 42 | 38 | 35 | 33 | 31 | 29 | 28 | 27 | 26 | 25 | 24 | 24 | 23 | 23 | 22 | 22 |
|                     | 132 | 53                        | 46 | 41 | 37 | 34 | 31 | 29 | 28 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 20 | 19 | 19 | 19 |
|                     | 144 | 48                        | 42 | 37 | 34 | 31 | 28 | 26 | 25 | 23 | 22 | 21 | 20 | 19 | 19 | 18 | 18 | 17 | 17 | 16 |
|                     | 156 | 44                        | 38 | 34 | 31 | 28 | 26 | 24 | 22 | 21 | 20 | 19 | 18 | 17 | 17 | 16 | 16 | 15 | 15 |    |
|                     | 168 | 41                        | 35 | 31 | 28 | 26 | 24 | 22 | 20 | 19 | 18 | 17 | 16 | 16 | 15 | 15 |    |    |    |    |
|                     | 180 | 38                        | 33 | 29 | 26 | 24 | 22 | 20 | 18 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |
|                     | 192 | 32                        | 28 | 24 | 22 | 19 | 18 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |    |
|                     | 204 | 27                        | 23 | 20 | 18 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 216 | 23                        | 19 | 17 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 228 | 19                        | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 240                 | 16  |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |



- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines

| 1/2" x 4" Steel     |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Two - Way           |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L- Mull Length (in) | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 71 | 66 | 62 | 59 | 56 | 53 | 51 | 48 | 46 | 44 |
|                     | 48  | 75                        | 75 | 75 | 75 | 75 | 73 | 66 | 61 | 57 | 53 | 50 | 47 | 44 | 42 | 40 | 38 | 36 | 34 | 33 |
|                     | 60  | 75                        | 75 | 75 | 71 | 64 | 58 | 53 | 49 | 45 | 42 | 40 | 37 | 35 | 33 | 32 | 30 | 29 | 27 | 26 |
|                     | 72  | 75                        | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 | 35 | 33 | 31 | 29 | 28 | 26 | 25 | 24 | 23 | 22 |
|                     | 84  | 75                        | 65 | 57 | 51 | 45 | 41 | 38 | 35 | 32 | 30 | 28 | 27 | 25 | 24 | 22 | 21 | 20 | 19 | 19 |
|                     | 96  | 66                        | 57 | 50 | 44 | 40 | 36 | 33 | 30 | 28 | 26 | 25 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
|                     | 108 | 59                        | 51 | 44 | 39 | 35 | 32 | 29 | 27 | 25 | 23 | 22 | 21 | 19 | 18 | 17 | 17 | 16 | 15 |    |
|                     | 120 | 53                        | 45 | 40 | 35 | 32 | 29 | 26 | 24 | 22 | 21 | 20 | 18 | 17 | 16 | 16 | 15 |    |    |    |
|                     | 132 | 48                        | 41 | 36 | 32 | 29 | 26 | 24 | 22 | 20 | 19 | 18 | 17 | 16 | 15 |    |    |    |    |    |
|                     | 144 | 44                        | 38 | 33 | 29 | 26 | 24 | 22 | 20 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |
|                     | 156 | 41                        | 35 | 30 | 27 | 24 | 22 | 20 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |
|                     | 168 | 38                        | 32 | 28 | 25 | 22 | 20 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |
|                     | 180 | 35                        | 30 | 26 | 23 | 21 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |
|                     | 192 | 32                        | 28 | 24 | 21 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |    |
|                     | 204 | 27                        | 23 | 20 | 18 | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 216 | 22                        | 19 | 17 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                     | 228 | 19                        | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 240                 | 16  |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |



- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines

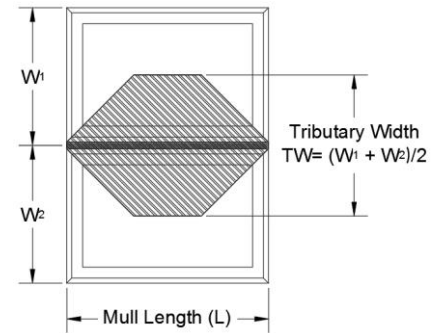
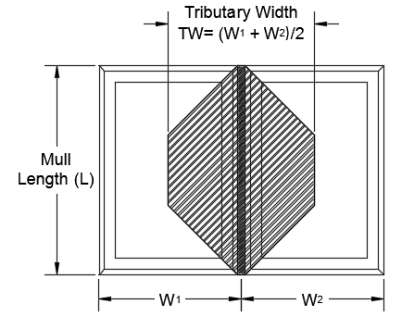


# STRUCTURAL DESIGN PRESSURE FOR PINNACLE CLAD 3 1/4" FRAME MULLIONS

(Includes Standard and High Performance)

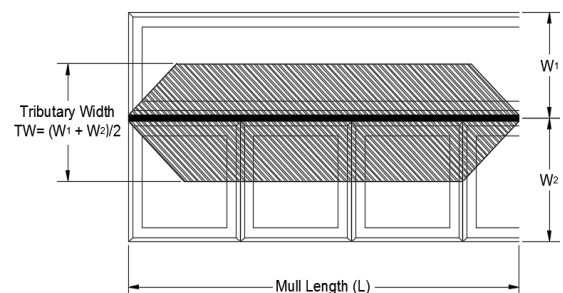
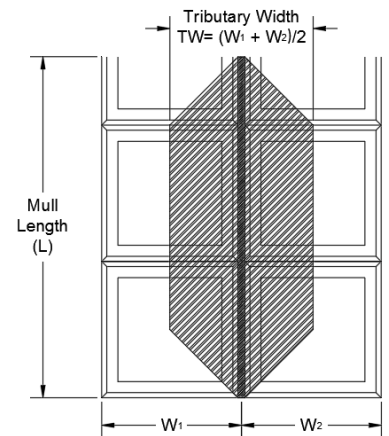
For reference only: Structural Steel to be provided by others

| 3/4" x 4" Steel      |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| One - Way            |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L - Mull Length (in) | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                      | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                      | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                      | 72  | 75                        | 75 | 75 | 75 | 74 | 70 | 66 | 64 | 62 | 61 | 60 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 |
|                      | 84  | 75                        | 75 | 70 | 64 | 60 | 56 | 53 | 51 | 49 | 47 | 46 | 45 | 44 | 44 | 43 | 43 | 43 | 43 | 43 |
|                      | 96  | 75                        | 67 | 60 | 54 | 50 | 47 | 44 | 42 | 40 | 38 | 37 | 36 | 35 | 34 | 34 | 34 | 33 | 33 | 33 |
|                      | 108 | 66                        | 58 | 52 | 47 | 43 | 40 | 38 | 36 | 34 | 32 | 31 | 30 | 29 | 29 | 28 | 27 | 27 | 27 | 26 |
|                      | 120 | 59                        | 51 | 46 | 42 | 38 | 35 | 33 | 31 | 29 | 28 | 27 | 26 | 25 | 24 | 24 | 23 | 23 | 22 | 22 |
|                      | 132 | 53                        | 46 | 41 | 37 | 34 | 31 | 29 | 28 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 20 | 19 | 19 | 19 |
|                      | 144 | 48                        | 42 | 37 | 34 | 31 | 28 | 26 | 25 | 23 | 22 | 21 | 20 | 19 | 19 | 18 | 18 | 17 | 17 | 16 |
|                      | 156 | 44                        | 38 | 34 | 31 | 28 | 26 | 24 | 22 | 21 | 20 | 18 | 18 | 17 | 17 | 16 | 16 | 15 | 15 |    |
|                      | 168 | 41                        | 35 | 31 | 28 | 26 | 24 | 22 | 20 | 19 | 18 | 17 | 16 | 16 | 15 | 15 |    |    |    |    |
|                      | 180 | 38                        | 33 | 29 | 26 | 24 | 22 | 21 | 19 | 18 | 17 | 16 | 15 |    |    |    |    |    |    |    |
|                      | 192 | 35                        | 30 | 27 | 24 | 22 | 20 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |
|                      | 204 | 33                        | 29 | 25 | 23 | 20 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |
|                      | 216 | 31                        | 27 | 24 | 21 | 19 | 18 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |    |
|                      | 228 | 28                        | 24 | 21 | 19 | 17 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 240                  | 24  | 21                        | 18 | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |



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| 3/4" x 4" Steel      |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Two - Way            |     | 24                        | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 |
| L - Mull Length (in) | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 71 | 66 | 62 | 59 | 56 | 53 | 51 | 48 | 46 | 44 |    |
|                      | 48  | 75                        | 75 | 75 | 75 | 73 | 66 | 61 | 57 | 53 | 50 | 47 | 44 | 42 | 40 | 38 | 36 | 34 | 33 |    |
|                      | 60  | 75                        | 75 | 75 | 71 | 64 | 58 | 53 | 49 | 45 | 42 | 40 | 37 | 35 | 33 | 32 | 30 | 29 | 27 | 26 |
|                      | 72  | 75                        | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 | 35 | 33 | 31 | 29 | 28 | 26 | 25 | 24 | 23 | 22 |
|                      | 84  | 75                        | 65 | 57 | 51 | 45 | 41 | 38 | 35 | 32 | 30 | 28 | 27 | 25 | 24 | 22 | 21 | 20 | 19 | 19 |
|                      | 96  | 66                        | 57 | 50 | 44 | 40 | 36 | 33 | 30 | 28 | 26 | 25 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
|                      | 108 | 59                        | 51 | 44 | 39 | 35 | 32 | 29 | 27 | 25 | 23 | 22 | 21 | 19 | 18 | 17 | 17 | 16 | 15 |    |
|                      | 120 | 53                        | 45 | 40 | 35 | 32 | 29 | 26 | 24 | 22 | 21 | 20 | 18 | 17 | 16 | 16 | 15 |    |    |    |
|                      | 132 | 48                        | 41 | 36 | 32 | 29 | 26 | 24 | 22 | 20 | 19 | 18 | 17 | 16 | 15 |    |    |    |    |    |
|                      | 144 | 44                        | 38 | 33 | 29 | 26 | 24 | 22 | 20 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |
|                      | 156 | 41                        | 35 | 30 | 27 | 24 | 22 | 20 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |
|                      | 168 | 38                        | 32 | 28 | 25 | 22 | 20 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |
|                      | 180 | 35                        | 30 | 26 | 23 | 21 | 19 | 17 | 16 | 15 |    |    |    |    |    |    |    |    |    |    |
|                      | 192 | 31                        | 27 | 23 | 21 | 19 | 17 | 16 |    |    |    |    |    |    |    |    |    |    |    |    |
|                      | 204 | 26                        | 22 | 20 | 17 | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                      | 216 | 22                        | 19 | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                      | 228 | 19                        | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 240                  | 16  |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |



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