

How to Use ZR-X Mullion DP Chart for the Structural Mull

Example: VERTICAL MULLION

1. Example: LP PW ~ 60" wide x 60" height / Structural Mull / LP PW ~ 60" wide x 60" height
2. Locate the HEIGHT of the window or HEIGHT of two mullied windows in the left column: HEIGHT Mullion Span.
3. Locate the WIDTH of a single window (W1 or W2), in the top row: WIDTH Load Span.
4. The DP Chart cell is listing a design pressure rating of DP62.
5. The ZR-X LP PW ~ 60" x 60" design pressure rating (AAMA 101 testing) is DP70.
6. Compare the Structural Mullion DP rating (62) with the window DP rating (70),

Special Note: USE whichever DP rating is LESS

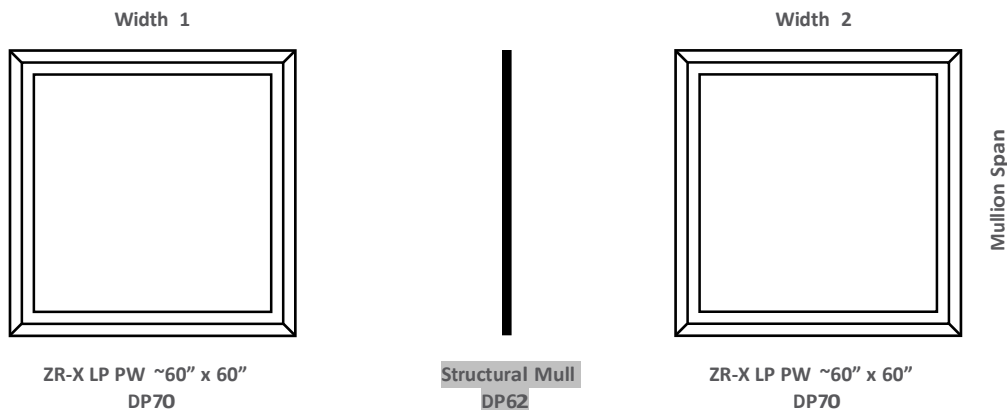
For this example you'd use the Mullion DP 62 rating for the composite.

7. For UNEQUAL mullied units: See example on page 2 - USE the FORMULA; $[(W1 + W2) / 2]$.
Ex.: $(24" + 42") / 2 = 33"$ WIDTH - Load Span = 33".

Design Pressure (psf) for ALL ZR-X Products: Configuration ~ ZR-X Structural Steel Mull

| | | WIDTH Load Span (inches) | | | | | | | | | | | |
|---------------------------|-----|--------------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|
| | | - | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 72 | 96 | 108 | 120 |
| HEIGHT Mull Span (inches) | 48 | 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 |
| | 60 | 75 | 75 | 75 | 70 | 65 | 63 | 62 | 62 | 62 | 62 | 62 | 62 |
| | 66 | 75 | 73 | 63 | 56 | 52 | 49 | 47 | 46 | 46 | 46 | 46 | 46 |
| | 72 | 74 | 61 | 52 | 46 | 42 | 39 | 37 | 36 | 36 | 36 | 36 | 36 |
| | 76 | 66 | 54 | 46 | 41 | 37 | 34 | 32 | 30 | 30 | 30 | 30 | 30 |
| | 80 | 60 | 48 | 41 | 36 | 33 | 30 | 28 | 26 | 26 | 26 | 26 | 26 |
| | 84 | 54 | 44 | 37 | 33 | 29 | 27 | 25 | 23 | 22 | 22 | 22 | 22 |
| | 88 | 49 | 40 | 34 | 30 | 26 | 24 | 23 | 21 | 20 | 20 | 20 | 20 |
| | 92 | 45 | 36 | 31 | 27 | 24 | 22 | 20 | 18 | 17 | 17 | 17 | 17 |
| | 96 | 41 | 33 | 28 | 24 | 22 | 20 | 18 | 16 | 15 | 15 | 15 | 15 |
| | 108 | 32 | 26 | 22 | 19 | 17 | 15 | 14 | 12 | 11 | 11 | 11 | 11 |
| | 120 | 26 | 21 | 18 | 15 | 14 | 12 | 11 | 10 | <10 | <10 | <10 | <10 |

Vertical Mulling Example:



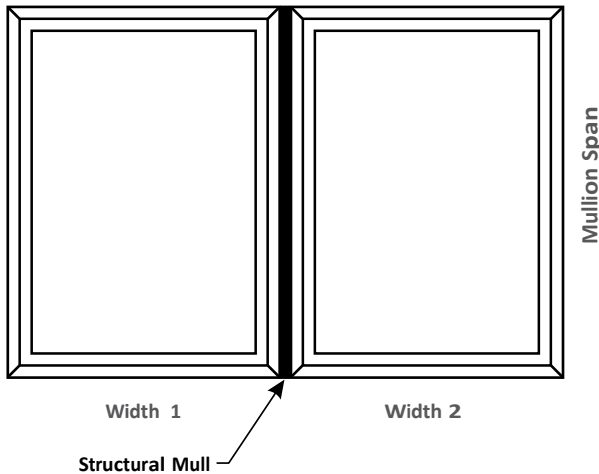
How to Use ZR-X Mullion DP Chart for the Structural Mull (*continued*)

Notes:

1. Qualifies ALL products in the ZR-X product offering, using the Structural Steel Mull.
2. Design pressures in shaded cells are capped at 75 psf. Any cells with <10 values are below 10 psf.
3. LOAD SPAN must be calculated according to the drawing below. If LOAD SPAN > MULL SPAN, use LOAD SPAN = MULL SPAN.
4. For Mull Spans between those shown on the DP Chart, using the largest span will provide a conservative solution.
5. *This DP Chart applies to VERTICAL mulling of twins, triples, and quad mullied assemblies and HORIZONTAL mulling of transom windows over single or multiple windows.*
6. **Evaluate ALL MULLS in your assembly.**
7. Final DESIGN PRESSURE of the mullied assembly shall be controlled by the lesser of the Mull Design Pressure or Window Design Pressure. See EXAMPLE on Page 1.
8. If additional DP ratings are required, contact Engineering for custom analysis of your mull assembly.

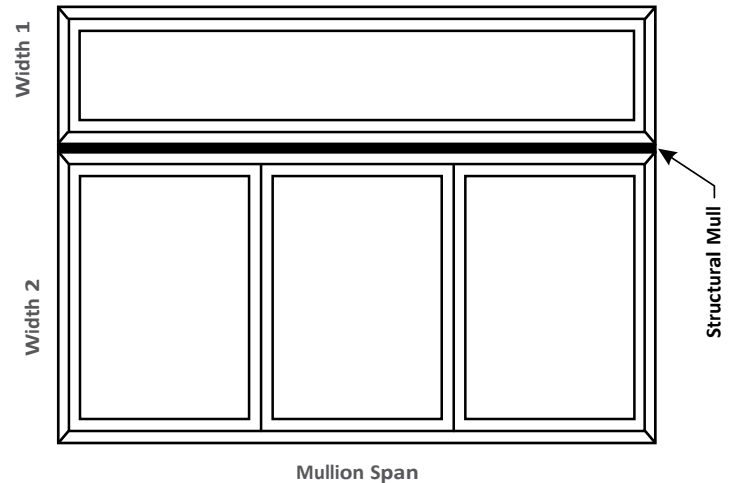
Equal Mullied Units:

$$\text{Load Span} = (\text{Width 1} + \text{Width 2}) / 2$$



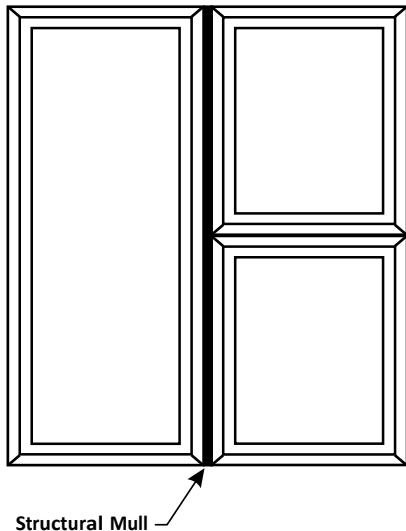
Unequal Mullied Units: *

$$\text{Load Span} = (\text{Width 1} + \text{Width 2}) / 2$$



For unequal mullied units: Use the formula; $(W1 + W2) / 2$. Ex.: $(24" + 42") / 2 = 33"$. WIDTH Load Span = 33".

3-Way Mullied Configuration:



4-Way Mullied Configuration:

