

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION MU-5

Effective March 1, 2005

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation 3 years after the effective date.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Silverline Structural Beam Mullion #1537, manufactured by:

Silverline Building Products Corp.
1 Silverline Drive
North Brunswick, NJ 08902
(732) 435-1000

will be accepted for use when mulling together Silverline Building Products window assemblies evaluated in the Texas Department of Insurance product evaluations WIN-320, WIN-321 and WIN-396 in designated catastrophe areas along the Texas Gulf Coast in accordance with this product evaluation, and R.W. Building Consultants drawing No. TX-364, pages 1 through 4, by Wendell Haney, P.E., dated 11-2-04.

PRODUCT DESCRIPTION

The **Silverline Structural Beam Mullion #1537** is constructed of extruded 6063-T6 aluminum. The aluminum mullion evaluated in this report is non-impact resistant, and can be used for attaching windows together for non-impact resistant mullioned assemblies. The mullions can be installed vertically (for side-by-side units), horizontally (for stacked units), or both vertically and horizontally for mullioned and transom assemblies. The mullion is secured directly to the rough window opening and can be attached to wood, concrete, or masonry framing.

LIMITATIONS

Mullion Limitations:

Individual window assemblies manufactured by Silverline Building Products Corporation and evaluated in the Texas Department of Insurance product evaluations may be mullioned together with structural mullions specified in this report to form mullioned assemblies. For allowable mullion spans and design pressure ratings in concrete framing, refer to R.W. Building Consultants drawing No. TX-364, page 2, by Wendell Haney, P.E., dated 11-2-04. The rated design pressure of the mullioned assembly shall not exceed the design pressures for the component windows as specified in the Texas Department of Insurance product evaluations WIN-320, WIN-321 and WIN-396. For allowable mullion spans and design pressure ratings in wood framing, refer to the Mullion Load Table below.

Mullion Load Table

WOOD SCREW ANCHORS		SILVERLINE 1537 STRUCTURAL BEAM MULLION LOAD TABLE (PSF)												
		TRIBUTARY WIDTH												
		28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"
MULLION SPAN	74"	28.10	26.23	**	**	**	**	**	**	**	**	**	**	**
	72"	30.51	28.47	26.69	25.12	**	**	**	**	**	**	**	**	**
	70"	33.20	30.98	29.05	27.34	25.82	**	**	**	**	**	**	**	**
	68"	35.90	33.50	31.41	29.56	27.92	26.45	25.13	**	**	**	**	**	**
	66"	38.11	35.57	33.34	31.38	29.64	28.08	26.67	25.40	**	**	**	**	**
	64"	40.53	37.82	35.46	33.37	31.52	29.86	28.37	27.02	25.79	**	**	**	**
	62"	43.18	40.30	37.78	35.56	33.59	31.82	30.23	28.79	27.48	26.28	25.19	**	**
	60"	46.11	43.03	40.34	37.97	35.86	33.97	32.28	30.74	29.34	28.07	26.90	25.82	**
	58"	49.34	46.05	43.18	40.64	38.38	36.36	34.54	32.90	31.40	30.04	28.78	27.63	26.57
	56"	52.93	49.40	46.31	43.59	41.17	39.00	37.05	35.29	33.68	32.22	30.88	29.64	28.50
	54"	56.92	53.13	49.81	46.88	44.27	41.94	39.85	37.95	36.22	34.65	33.21	31.88	30.65
	52"	61.39	57.29	53.71	50.55	47.75	45.23	42.97	40.92	39.06	37.37	35.81	34.38	33.05
	50"	66.40	61.97	58.10	54.68	51.64	48.92	46.48	44.26	42.25	40.42	38.73	37.18	35.75
	48"	72.04	67.24	63.04	59.33	56.03	53.09	50.43	48.03	45.85	43.85	42.03	40.34	38.79
	46"	78.45	73.22	68.64	64.60	61.01	57.80	54.91	52.30	49.92	47.75	45.76	43.93	42.24
	44"	85.74	80.02	75.02	70.61	66.69	63.18	60.02	57.16	54.56	52.19	50.01	48.01	46.17
	42"	94.10	87.83	82.34	77.49	73.19	69.34	65.87	62.73	59.88	57.28	54.89	52.70	50.67
	40"	103.74	96.83	90.78	85.44	80.69	76.44	72.62	69.16	66.02	63.15	60.52	58.10	55.86
	38"	114.95	107.29	100.58	94.67	89.41	84.70	80.47	76.63	73.15	69.97	67.06	64.37	61.90
	36"	128.08	119.54	112.07	105.48	99.62	94.37	89.66	85.39	81.51	77.96	74.71	71.72	68.97
34"	143.59	134.02	125.64	118.25	111.68	105.80	100.51	95.73	91.38	87.40	83.76	80.41	77.32	
32"	162.10	151.29	141.84	133.49	126.08	119.44	113.47	108.07	103.15	98.67	94.56	90.78	87.28	
30"	184.43	172.14	161.38	151.89	143.45	135.90	129.10	122.96	117.37	112.26	107.59	103.28	99.31	
28"	200.00	197.61	185.26	174.36	164.67	156.01	148.21	141.15	134.73	128.87	123.51	118.56	114.00	
26"	200.00	200.00	200.00	200.00	190.98	180.93	171.88	163.70	156.26	149.46	143.24	137.51	132.22	
24"	200.00	200.00	200.00	200.00	200.00	200.00	200.00	192.12	183.39	175.41	168.10	161.38	155.17	

** The corresponding configurations are not acceptable for the Silverline 1537 Mullion.

INSTRUCTIONS FOR USE OF THE MULLION LOAD TABLE

1. Determine the design load requirement for the particular opening per the International Residential Code (IRC), International Building Code (IBC) or ASCE 7 as appropriate for the structure.
2. For the particular opening, determine the tributary width and mullion span. Reference Fig. 1 below for mullion span and tributary width determination.
3. In the first column of the table, locate the mullion span. In the first row of the table, locate the tributary width. At the intersection of the row containing the mullion span and the column containing the tributary width, read the mullion load given in PSF. The mullion load rating must be equal to or greater than the design load requirement determined in step 1 above.

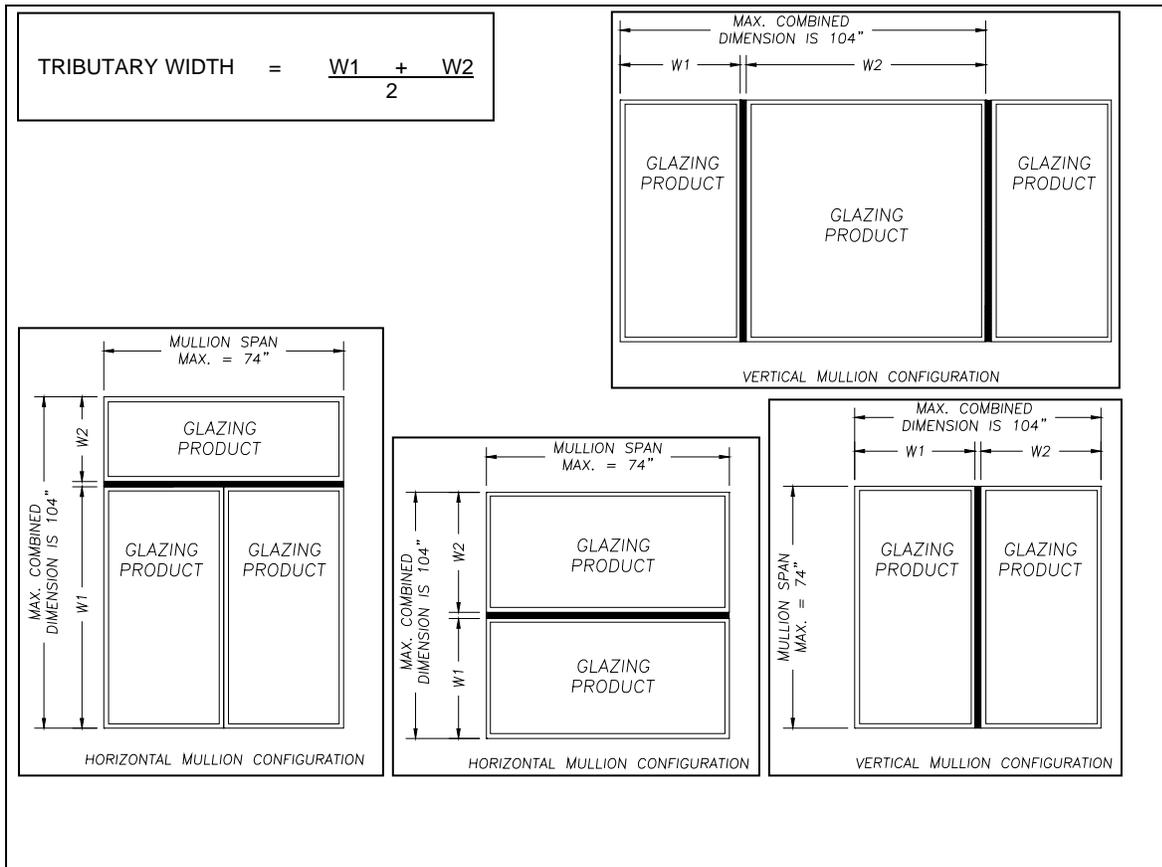


Figure 1

Window Size Limitations: Individual window assemblies within the mullied assembly shall have maximum window dimensions as specified in the limitations sections the Texas Department of Insurance product evaluations WIN-320, WIN-321 and WIN-396.

Impact Resistance: These mullied assemblies do not satisfy the Texas Department of Insurance criteria for protection from windborne debris when installed in window assemblies that have been evaluated by the TDI to be impact resistant. Mullied window assemblies evaluated in this product evaluation will require an impact protection device.

INSTALLATION INSTRUCTIONS

Mullions shall be installed in accordance with R.W. Building Consultants drawing No. TX-364, page 4, by Wendell Haney, P.E., dated 11-2-04.

Note: The manufacturer's installation instructions and the drawings specified in the installation section of this evaluation report shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC).