

# ZHLL.R25119 - Products for Use in Windstorm-rated Assemblies

## Products for Use in Windstorm-rated Assemblies

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### GREENHECK FAN CORP

400 ROSS AVE.  
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SCHOFIELD, WI 54476-0410 USA

R25119

| Product        | Assembly No.      | Test Method                                                                    | Ratings                                                                                                    |
|----------------|-------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| AFL-501 Louver | <u>25, 66, 67</u> | ICC 500 (2014),<br>FEMA Guideline P-361 (2015),<br>FEMA Guideline P-320 (2014) | Design Pressure - +/-250 psf Static Test Pressure - +/-300 psf 15-lb lumber 2x4 missile impact, at 100-mph |

| Product             | Assembly No. | Test Method                                                     | Ratings                               |
|---------------------|--------------|-----------------------------------------------------------------|---------------------------------------|
| ESD-435X (Exterior) | <u>14</u>    | ASTM E330 ASTM E1996 (Large missile)<br>TAS 201 TAS 202 TAS 203 | Vary with max width (see table below) |

## Single-panel Widths

The following load ratings apply to single width louver panels, ≤144 in. high.

| Max Width,<br>in. | Load Rating,<br>psf + | Max Width,<br>in. | Load Rating,<br>psf + | Max Width,<br>in. | Load Rating,<br>psf + |
|-------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|
| 24                | 200                   | 60                | 98                    | 96                | 61                    |
| 36                | 152                   | 72                | 82                    | 108               | 54                    |
| 48                | 86                    | 84                | 70                    | 120               | 49                    |

**Note** - Single panel louvers within the size ranges covered above can be field installed to unlimited stack heights.

## Multiple-panel (Mulled) Widths

The following load ratings apply to louver assemblies made from individual panels mulled together with or without mullion reinforcement:

| Max Individual Panel | Mullion Reinforcement |           |           |           |
|----------------------|-----------------------|-----------|-----------|-----------|
| Max                  | None                  | 2 in. (a) | 4 in. (b) | 6 in. (c) |

| Height,<br>in. | Width,<br>in. | Load Rating, psf + |     |     |     |
|----------------|---------------|--------------------|-----|-----|-----|
| 48             | 24            | 200                | 200 | 200 | 200 |
|                | 36            | 152                | 152 | 152 | 152 |
|                | 48            | 86                 | 86  | 86  | 86  |
|                | 60            | 98                 | 98  | 98  | 98  |
|                | 72            | 82                 | 82  | 82  | 82  |
|                | 84            | 70                 | 70  | 70  | 70  |
|                | 96            | 61                 | 61  | 61  | 61  |
|                | 108           | 54                 | 54  | 54  | 54  |
|                | 120           | 49                 | 49  | 49  | 49  |
| 60             | 24            | 177                | 200 | 200 | 200 |
|                | 36            | 118                | 139 | 152 | 152 |
|                | 48            | 86                 | 86  | 86  | 86  |
|                | 60            | 71                 | 84  | 98  | 98  |
|                | 72            | 59                 | 70  | 82  | 82  |
|                | 84            | 51                 | 60  | 70  | 70  |
|                | 96            | 44                 | 52  | 61  | 61  |
|                | 108           | 39                 | 46  | 54  | 54  |
|                | 120           | 35                 | 42  | 49  | 49  |
| 72             | 24            | 123                | 145 | 200 | 200 |
|                | 36            | 82                 | 97  | 152 | 152 |
|                | 48            | 61                 | 73  | 86  | 86  |
|                | 60            | 49                 | 58  | 98  | 98  |
|                | 72            | 41                 | 48  | 82  | 82  |
|                | 84            | 35                 | 42  | 70  | 70  |
|                | 96            | 31                 | 36  | 61  | 61  |
|                | 108           | 27                 | 32  | 54  | 54  |
|                | 120           | 25                 | 29  | 49  | 49  |
| 84             | 24            | 90                 | 107 | 200 | 200 |
|                | 36            | 60                 | 71  | 136 | 143 |
|                | 48            | 45                 | 53  | 86  | 86  |

|     |     |    |    |     |     |
|-----|-----|----|----|-----|-----|
|     | 60  | 36 | 43 | 82  | 86  |
|     | 72  | 30 | 36 | 68  | 71  |
|     | 84  | 26 | 30 | 58  | 61  |
|     | 96  | 23 | 27 | 51  | 54  |
|     | 108 | 20 | 24 | 45  | 48  |
|     | 120 | 18 | 21 | 41  | 43  |
| 96  | 24  | 69 | 82 | 156 | 188 |
|     | 36  | 46 | 54 | 104 | 125 |
|     | 48  | 35 | 41 | 78  | 86  |
|     | 60  | 28 | 33 | 63  | 75  |
|     | 72  | 23 | 27 | 52  | 63  |
|     | 84  | 20 | 23 | 45  | 54  |
|     | 96  | 17 | 20 | 39  | 47  |
|     | 108 | 15 | 18 | 35  | 42  |
|     | 120 | 14 | 16 | 31  | 38  |
| 108 | 24  | 55 | 65 | 123 | 167 |
|     | 36  | 36 | 43 | 82  | 111 |
|     | 48  | 27 | 32 | 62  | 83  |
|     | 60  | 22 | 26 | 49  | 67  |
|     | 72  | 18 | 22 | 41  | 56  |
|     | 84  | 16 | 18 | 35  | 48  |
|     | 96  | 14 | 16 | 31  | 42  |
|     | 108 | 12 | 14 | 27  | 37  |
|     | 120 | 11 | 13 | 25  | 33  |
| 120 | 24  | 44 | 52 | 100 | 150 |
|     | 36  | 30 | 35 | 67  | 100 |
|     | 48  | 22 | 26 | 50  | 75  |
|     | 60  | 18 | 21 | 40  | 60  |
|     | 72  | 15 | 17 | 33  | 50  |
|     | 84  | 13 | 15 | 29  | 43  |
|     | 96  | 11 | 13 | 25  | 38  |

|     |     |    |    |    |     |
|-----|-----|----|----|----|-----|
|     | 108 | 10 | 12 | 22 | 33  |
|     | 120 | 9  | 10 | 20 | 30  |
| 132 | 24  | 37 | 43 | 83 | 136 |
|     | 36  | 24 | 29 | 55 | 91  |
|     | 48  | 18 | 22 | 41 | 68  |
|     | 60  | 15 | 17 | 33 | 55  |
|     | 72  | 12 | 14 | 28 | 45  |
|     | 84  | 10 | 12 | 24 | 39  |
|     | 96  | 9  | 11 | 21 | 34  |
|     | 108 | 8  | 10 | 18 | 30  |
|     | 120 | 7  | 9  | 17 | 27  |
| 144 | 24  | 31 | 36 | 69 | 125 |
|     | 36  | 20 | 24 | 46 | 83  |
|     | 48  | 15 | 18 | 35 | 63  |
|     | 60  | 12 | 15 | 28 | 50  |
|     | 72  | 10 | 12 | 23 | 42  |
|     | 84  | 9  | 10 | 20 | 36  |
|     | 96  | 8  | 9  | 17 | 31  |
|     | 108 | 7  | 8  | 15 | 28  |
|     | 120 | 6  | 7  | 14 | 25  |

| Product             | Assembly No. | Test Method                                                              | Ratings                               |
|---------------------|--------------|--------------------------------------------------------------------------|---------------------------------------|
| ESD-635X (Exterior) | <u>14</u>    | ASTM E330<br>ASTM E1996 (Large missile)<br>TAS 201<br>TAS 202<br>TAS 203 | Vary with max width (see table below) |

### Single-panel Widths

The following load ratings apply to single width louver panels, ≤144 in. high.

| Max Width,<br>in. | Load Rating,<br>psf + | Max Width,<br>in. | Load Rating,<br>psf + | Max Width,<br>in. | Load Rating,<br>psf + |
|-------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|
| 24                | 200                   | 60                | 98                    | 96                | 61                    |
| 36                | 152                   | 72                | 82                    | 108               | 54                    |

|    |    |    |    |     |    |
|----|----|----|----|-----|----|
| 48 | 86 | 84 | 70 | 120 | 49 |
|----|----|----|----|-----|----|

**Note** - Single panel louvers within the size ranges covered above can be field installed to unlimited stack heights.

## Multiple-panel (Mulled) Widths

The following load ratings apply to louver assemblies made from individual panels mulled together with or without mullion reinforcement:

| Max<br>Height,<br>in. | Max<br>Individual<br>Panel<br>Width,<br>in. | Mullion Reinforcement |          |           |           |
|-----------------------|---------------------------------------------|-----------------------|----------|-----------|-----------|
|                       |                                             | None                  | 2 in.(a) | 4 in. (b) | 6 in. (c) |
|                       |                                             | Load Rating, psf +    |          |           |           |
| 66                    | 24                                          | 200                   | 200      | 200       | 200       |
|                       | 36                                          | 152                   | 152      | 152       | 152       |
|                       | 48                                          | 86                    | 86       | 86        | 86        |
|                       | 60                                          | 98                    | 98       | 98        | 98        |
|                       | 72                                          | 82                    | 82       | 82        | 82        |
|                       | 84                                          | 70                    | 70       | 70        | 70        |
|                       | 96                                          | 61                    | 61       | 61        | 61        |
|                       | 108                                         | 54                    | 54       | 54        | 54        |
|                       | 120                                         | 49                    | 49       | 49        | 49        |
| 72                    | 24                                          | 200                   | 200      | 200       | 200       |
|                       | 36                                          | 144                   | 152      | 152       | 152       |
|                       | 48                                          | 86                    | 86       | 86        | 86        |
|                       | 60                                          | 86                    | 92       | 98        | 98        |
|                       | 72                                          | 72                    | 77       | 82        | 82        |
|                       | 84                                          | 62                    | 66       | 70        | 70        |
|                       | 96                                          | 54                    | 58       | 61        | 61        |
|                       | 108                                         | 48                    | 51       | 54        | 54        |
|                       | 120                                         | 43                    | 46       | 49        | 49        |
| 84                    | 24                                          | 159                   | 170      | 200       | 200       |
|                       | 36                                          | 106                   | 113      | 143       | 143       |
|                       | 48                                          | 79                    | 85       | 86        | 86        |
|                       | 60                                          | 63                    | 68       | 86        | 86        |
|                       | 72                                          | 53                    | 57       | 71        | 71        |

|     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
|     | 84  | 45  | 49  | 61  | 61  |
|     | 96  | 40  | 42  | 54  | 54  |
|     | 108 | 35  | 38  | 48  | 48  |
|     | 120 | 32  | 34  | 43  | 43  |
| 96  | 24  | 122 | 130 | 181 | 188 |
|     | 36  | 81  | 87  | 121 | 125 |
|     | 48  | 61  | 65  | 86  | 86  |
|     | 60  | 49  | 52  | 72  | 75  |
|     | 72  | 41  | 43  | 60  | 63  |
|     | 84  | 35  | 37  | 52  | 54  |
|     | 96  | 30  | 33  | 45  | 47  |
|     | 108 | 27  | 29  | 40  | 42  |
|     | 120 | 24  | 26  | 36  | 38  |
| 108 | 24  | 96  | 103 | 143 | 167 |
|     | 36  | 64  | 69  | 95  | 111 |
|     | 48  | 48  | 51  | 71  | 83  |
|     | 60  | 38  | 41  | 57  | 67  |
|     | 72  | 32  | 34  | 48  | 56  |
|     | 84  | 27  | 29  | 41  | 48  |
|     | 96  | 24  | 26  | 36  | 42  |
|     | 108 | 21  | 23  | 32  | 37  |
|     | 120 | 19  | 21  | 29  | 33  |
| 120 | 24  | 78  | 83  | 116 | 150 |
|     | 36  | 52  | 55  | 77  | 100 |
|     | 48  | 39  | 42  | 58  | 75  |
|     | 60  | 31  | 33  | 46  | 60  |
|     | 72  | 26  | 28  | 39  | 50  |
|     | 84  | 22  | 24  | 33  | 43  |
|     | 96  | 19  | 21  | 29  | 38  |
|     | 108 | 17  | 18  | 26  | 33  |
|     | 120 | 16  | 17  | 23  | 30  |

|     |     |    |    |    |     |
|-----|-----|----|----|----|-----|
| 132 | 24  | 64 | 69 | 96 | 136 |
|     | 36  | 43 | 46 | 64 | 91  |
|     | 48  | 32 | 34 | 48 | 68  |
|     | 60  | 26 | 28 | 38 | 55  |
|     | 72  | 21 | 23 | 32 | 45  |
|     | 84  | 18 | 20 | 27 | 39  |
|     | 96  | 16 | 17 | 24 | 34  |
|     | 108 | 14 | 15 | 21 | 30  |
|     | 120 | 13 | 14 | 19 | 27  |
| 144 | 24  | 54 | 58 | 80 | 125 |
|     | 36  | 36 | 39 | 54 | 83  |
|     | 48  | 27 | 29 | 40 | 63  |
|     | 60  | 22 | 23 | 32 | 50  |
|     | 72  | 18 | 19 | 27 | 42  |
|     | 84  | 15 | 17 | 23 | 36  |
|     | 96  | 14 | 14 | 20 | 31  |
|     | 108 | 12 | 13 | 18 | 28  |
|     | 120 | 11 | 12 | 16 | 25  |

| Product            | Assembly No. | Test Method                                                              | Ratings                               |
|--------------------|--------------|--------------------------------------------------------------------------|---------------------------------------|
| EHH501X (Exterior) | <u>14</u>    | ASTM E330<br>ASTM E1996 (Large missile)<br>TAS 201<br>TAS 202<br>TAS 203 | Vary with max width (see table below) |

## Single-panel Widths

The following load ratings apply to single width louver panels, ≤144 in. high.

| Max Width,<br>in. | Load Rating,<br>psf + | Max Width,<br>in. | Load Rating,<br>psf + | Max Width,<br>in. | Load Rating,<br>psf + |
|-------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|
| 24                | 200                   | 60                | 98                    | 96                | 61                    |
| 36                | 163                   | 72                | 82                    | 108               | 54                    |
| 48                | 122                   | 84                | 70                    | 120               | 49                    |

**Note** - Single panel louvers within the size ranges covered above can be field installed to unlimited stack heights.

## Multiple-panel (Mulled) Widths

The following load ratings apply to louver assemblies made from individual panels mulled together with or without mullion reinforcement:

| Max<br>Height,<br>in. | Max<br>Individual<br>Panel<br>Width,<br>in. | Mullion Reinforcement |           |           |           |
|-----------------------|---------------------------------------------|-----------------------|-----------|-----------|-----------|
|                       |                                             | None                  | 2 in. (a) | 4 in. (b) | 6 in. (c) |
|                       |                                             | Load Rating, psf +    |           |           |           |
| 48                    | 24                                          | 200                   | 200       | 200       | 200       |
|                       | 36                                          | 163                   | 163       | 163       | 163       |
|                       | 48                                          | 122                   | 122       | 122       | 122       |
|                       | 60                                          | 98                    | 98        | 98        | 98        |
|                       | 72                                          | 82                    | 82        | 82        | 82        |
|                       | 84                                          | 70                    | 70        | 70        | 70        |
|                       | 96                                          | 61                    | 61        | 61        | 61        |
|                       | 108                                         | 54                    | 54        | 54        | 54        |
|                       | 120                                         | 49                    | 49        | 49        | 49        |
| 60                    | 24                                          | 172                   | 200       | 200       | 200       |
|                       | 36                                          | 115                   | 137       | 163       | 163       |
|                       | 48                                          | 86                    | 103       | 122       | 122       |
|                       | 60                                          | 69                    | 82        | 98        | 98        |
|                       | 72                                          | 57                    | 69        | 82        | 82        |
|                       | 84                                          | 49                    | 59        | 70        | 70        |
|                       | 96                                          | 43                    | 51        | 61        | 61        |
|                       | 108                                         | 38                    | 46        | 54        | 54        |
|                       | 120                                         | 34                    | 41        | 49        | 49        |
| 72                    | 24                                          | 119                   | 143       | 200       | 200       |
|                       | 36                                          | 80                    | 95        | 163       | 163       |
|                       | 48                                          | 60                    | 71        | 122       | 122       |
|                       | 60                                          | 48                    | 57        | 98        | 98        |
|                       | 72                                          | 40                    | 48        | 82        | 82        |
|                       | 84                                          | 34                    | 41        | 70        | 70        |
|                       | 96                                          | 30                    | 36        | 61        | 61        |
|                       | 108                                         | 27                    | 32        | 54        | 54        |

|     |     |    |     |     |     |
|-----|-----|----|-----|-----|-----|
|     | 120 | 24 | 29  | 49  | 49  |
| 84  | 24  | 88 | 105 | 200 | 200 |
|     | 36  | 59 | 70  | 138 | 143 |
|     | 48  | 44 | 52  | 104 | 107 |
|     | 60  | 35 | 42  | 83  | 86  |
|     | 72  | 29 | 35  | 69  | 71  |
|     | 84  | 25 | 30  | 59  | 61  |
|     | 96  | 22 | 26  | 52  | 54  |
|     | 108 | 20 | 23  | 46  | 48  |
|     | 120 | 18 | 21  | 41  | 43  |
| 96  | 24  | 67 | 80  | 159 | 188 |
|     | 36  | 45 | 54  | 106 | 125 |
|     | 48  | 34 | 40  | 79  | 94  |
|     | 60  | 27 | 32  | 63  | 75  |
|     | 72  | 22 | 27  | 53  | 63  |
|     | 84  | 19 | 23  | 45  | 54  |
|     | 96  | 17 | 20  | 40  | 47  |
|     | 108 | 15 | 18  | 35  | 42  |
|     | 120 | 13 | 16  | 32  | 38  |
| 108 | 24  | 53 | 63  | 125 | 167 |
|     | 36  | 35 | 42  | 84  | 111 |
|     | 48  | 27 | 32  | 63  | 83  |
|     | 60  | 21 | 25  | 50  | 67  |
|     | 72  | 18 | 21  | 42  | 56  |
|     | 84  | 15 | 18  | 36  | 48  |
|     | 96  | 13 | 16  | 31  | 42  |
|     | 108 | 12 | 14  | 28  | 37  |
|     | 120 | 11 | 13  | 25  | 33  |
| 120 | 24  | 43 | 51  | 101 | 150 |
|     | 36  | 29 | 34  | 68  | 100 |
|     | 48  | 22 | 26  | 51  | 75  |

|     |     |    |    |    |     |
|-----|-----|----|----|----|-----|
|     | 60  | 17 | 21 | 41 | 60  |
|     | 72  | 14 | 17 | 34 | 50  |
|     | 84  | 12 | 15 | 29 | 43  |
|     | 96  | 11 | 13 | 25 | 38  |
|     | 108 | 10 | 11 | 23 | 33  |
|     | 120 | 9  | 10 | 20 | 30  |
| 132 | 24  | 36 | 42 | 84 | 136 |
|     | 36  | 24 | 28 | 56 | 91  |
|     | 48  | 18 | 21 | 42 | 68  |
|     | 60  | 14 | 17 | 34 | 55  |
|     | 72  | 12 | 14 | 28 | 45  |
|     | 84  | 10 | 12 | 24 | 39  |
|     | 96  | 9  | 11 | 21 | 34  |
|     | 108 | 8  | 9  | 19 | 30  |
|     | 120 | 7  | 8  | 17 | 27  |
| 144 | 24  | 30 | 36 | 70 | 125 |
|     | 36  | 20 | 24 | 47 | 83  |
|     | 48  | 15 | 18 | 35 | 63  |
|     | 60  | 12 | 14 | 28 | 50  |
|     | 72  | 10 | 12 | 23 | 42  |
|     | 84  | 9  | 10 | 20 | 36  |
|     | 96  | 7  | 9  | 18 | 31  |
|     | 108 | 7  | 8  | 16 | 28  |
|     | 120 | 6  | 7  | 14 | 25  |

| Product             | Assembly No. | Test Method                                                              | Ratings                               |
|---------------------|--------------|--------------------------------------------------------------------------|---------------------------------------|
| AFJ-601X (Exterior) | <u>14</u>    | ASTM E330<br>ASTM E1996 (Large missile)<br>TAS 201<br>TAS 202<br>TAS 203 | Vary with max width (see table below) |

## Single-panel Widths

The following load ratings apply to single width louver panels, ≤96 in. high.

| Max Width,<br>in. | Load Rating,<br>psf + | Max Width,<br>in. | Load Rating,<br>psf + | Max Width,<br>in. | Load Rating,<br>psf + |
|-------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|
| 18                | 200                   | 42                | 140                   | —                 | —                     |
| 24                | 200                   | 48                | 122                   | —                 | —                     |
| 30                | 196                   | 54                | 109                   | —                 | —                     |
| 36                | 163                   | 60                | 98                    | —                 | —                     |

**Note** - Single panel louvers within the size ranges covered above can be field installed to unlimited stack heights.

## Multiple-panel (Mulled) Widths

The following load ratings apply to louver assemblies made from individual panels mulled together with or without mullion reinforcement:

| Max<br>Height,<br>in. | Max<br>Individual<br>Panel<br>Width,<br>in. | Mullion Reinforcement |           |           |           |
|-----------------------|---------------------------------------------|-----------------------|-----------|-----------|-----------|
|                       |                                             | None                  | 2 in. (a) | 4 in. (b) | 6 in. (c) |
|                       |                                             | Load Rating, psf +    |           |           |           |
| 24                    | 18                                          | 200                   | 200       | 200       | 200       |
|                       | 24                                          | 200                   | 200       | 200       | 200       |
|                       | 30                                          | 196                   | 196       | 196       | 196       |
|                       | 36                                          | 163                   | 163       | 163       | 163       |
|                       | 42                                          | 140                   | 140       | 140       | 140       |
|                       | 48                                          | 122                   | 122       | 122       | 122       |
|                       | 54                                          | 109                   | 109       | 109       | 109       |
|                       | 60                                          | 98                    | 98        | 98        | 98        |
| 30                    | 18                                          | 200                   | 200       | 200       | 200       |
|                       | 24                                          | 200                   | 200       | 200       | 200       |
|                       | 30                                          | 196                   | 196       | 196       | 196       |
|                       | 36                                          | 163                   | 163       | 163       | 163       |
|                       | 42                                          | 140                   | 140       | 140       | 140       |
|                       | 48                                          | 122                   | 122       | 122       | 122       |
|                       | 54                                          | 109                   | 109       | 109       | 109       |
|                       | 60                                          | 98                    | 98        | 98        | 98        |
| 36                    | 18                                          | 200                   | 200       | 200       | 200       |
|                       | 24                                          | 200                   | 200       | 200       | 200       |
|                       | 30                                          | 196                   | 196       | 196       | 196       |

|    |    |     |     |     |     |
|----|----|-----|-----|-----|-----|
|    | 36 | 163 | 163 | 163 | 163 |
|    | 42 | 140 | 140 | 140 | 140 |
|    | 48 | 122 | 122 | 122 | 122 |
|    | 54 | 109 | 109 | 109 | 109 |
|    | 60 | 98  | 98  | 98  | 98  |
| 42 | 18 | 200 | 200 | 200 | 200 |
|    | 24 | 200 | 200 | 200 | 200 |
|    | 30 | 196 | 196 | 196 | 196 |
|    | 36 | 163 | 163 | 163 | 163 |
|    | 42 | 140 | 140 | 140 | 140 |
|    | 48 | 122 | 122 | 122 | 122 |
|    | 54 | 109 | 109 | 109 | 109 |
|    | 60 | 98  | 98  | 98  | 98  |
| 48 | 18 | 200 | 200 | 200 | 200 |
|    | 24 | 200 | 200 | 200 | 200 |
|    | 30 | 196 | 196 | 196 | 196 |
|    | 36 | 163 | 163 | 163 | 163 |
|    | 42 | 140 | 140 | 140 | 140 |
|    | 48 | 122 | 122 | 122 | 122 |
|    | 54 | 109 | 109 | 109 | 109 |
|    | 60 | 98  | 98  | 98  | 98  |
| 54 | 18 | 200 | 200 | 200 | 200 |
|    | 24 | 200 | 200 | 200 | 200 |
|    | 30 | 196 | 196 | 196 | 196 |
|    | 36 | 163 | 163 | 163 | 163 |
|    | 42 | 140 | 140 | 140 | 140 |
|    | 48 | 122 | 122 | 122 | 122 |
|    | 54 | 109 | 109 | 109 | 109 |
|    | 60 | 98  | 98  | 98  | 98  |
| 60 | 18 | 200 | 200 | 200 | 200 |
|    | 24 | 200 | 200 | 200 | 200 |

|    |    |     |     |     |     |
|----|----|-----|-----|-----|-----|
|    | 30 | 196 | 196 | 196 | 196 |
|    | 36 | 163 | 163 | 163 | 163 |
|    | 42 | 140 | 140 | 140 | 140 |
|    | 48 | 122 | 122 | 122 | 122 |
|    | 54 | 109 | 109 | 109 | 109 |
|    | 60 | 98  | 98  | 98  | 98  |
| 66 | 18 | 200 | 200 | 200 | 200 |
|    | 24 | 200 | 200 | 200 | 200 |
|    | 30 | 191 | 196 | 196 | 196 |
|    | 36 | 159 | 163 | 163 | 163 |
|    | 42 | 136 | 140 | 140 | 140 |
|    | 48 | 119 | 122 | 122 | 122 |
|    | 54 | 106 | 109 | 109 | 109 |
|    | 60 | 95  | 98  | 98  | 98  |
| 72 | 18 | 200 | 200 | 200 | 200 |
|    | 24 | 200 | 200 | 200 | 200 |
|    | 30 | 160 | 173 | 196 | 196 |
|    | 36 | 134 | 144 | 163 | 163 |
|    | 42 | 115 | 124 | 140 | 140 |
|    | 48 | 100 | 108 | 122 | 122 |
|    | 54 | 89  | 96  | 109 | 109 |
|    | 60 | 80  | 87  | 98  | 98  |
| 78 | 18 | 200 | 200 | 200 | 200 |
|    | 24 | 171 | 184 | 200 | 200 |
|    | 30 | 137 | 148 | 185 | 185 |
|    | 36 | 114 | 123 | 154 | 154 |
|    | 42 | 98  | 105 | 132 | 132 |
|    | 48 | 85  | 92  | 115 | 115 |
|    | 54 | 76  | 82  | 103 | 103 |
|    | 60 | 68  | 74  | 92  | 92  |
| 84 | 18 | 196 | 200 | 200 | 200 |

|    |    |     |     |     |     |
|----|----|-----|-----|-----|-----|
|    | 24 | 147 | 159 | 200 | 200 |
|    | 30 | 118 | 127 | 171 | 171 |
|    | 36 | 98  | 106 | 143 | 143 |
|    | 42 | 84  | 91  | 122 | 122 |
|    | 48 | 74  | 80  | 107 | 107 |
|    | 54 | 65  | 71  | 95  | 95  |
|    | 60 | 59  | 64  | 86  | 86  |
| 90 | 18 | 171 | 185 | 200 | 200 |
|    | 24 | 128 | 139 | 199 | 200 |
|    | 30 | 103 | 111 | 159 | 160 |
|    | 36 | 86  | 92  | 133 | 133 |
|    | 42 | 73  | 79  | 114 | 114 |
|    | 48 | 64  | 69  | 100 | 100 |
|    | 54 | 57  | 62  | 89  | 89  |
|    | 60 | 51  | 55  | 80  | 80  |
| 96 | 18 | 150 | 162 | 200 | 200 |
|    | 24 | 113 | 122 | 175 | 188 |
|    | 30 | 90  | 97  | 140 | 150 |
|    | 36 | 75  | 81  | 117 | 125 |
|    | 42 | 64  | 70  | 100 | 107 |
|    | 48 | 56  | 61  | 88  | 94  |
|    | 54 | 50  | 54  | 78  | 83  |
|    | 60 | 45  | 49  | 70  | 75  |

| Product             | Assembly No. | Test Method                                                              | Ratings                               |
|---------------------|--------------|--------------------------------------------------------------------------|---------------------------------------|
| EVH-602X (Exterior) | <u>14</u>    | ASTM E330<br>ASTM E1996 (Large missile)<br>TAS 201<br>TAS 202<br>TAS 203 | Vary with max width (see table below) |

The following load ratings apply to single panel louvers or louver assemblies made from individual panels mulled together:

| Max Height, in. | Max Individual Panel Width, in. | Load Rating, psf + |
|-----------------|---------------------------------|--------------------|
|-----------------|---------------------------------|--------------------|

|    |    |     |
|----|----|-----|
| 42 | 60 | 200 |
| 48 | 54 | 200 |
|    | 60 | 188 |
| 60 | 48 | 200 |
|    | 54 | 186 |
|    | 60 | 150 |
| 72 | 42 | 200 |
|    | 48 | 195 |
|    | 54 | 155 |
|    | 60 | 125 |
| 84 | 36 | 200 |
|    | 42 | 191 |
|    | 48 | 167 |
|    | 54 | 133 |
|    | 60 | 107 |
| 96 | 30 | 200 |
|    | 36 | 195 |
|    | 42 | 167 |
|    | 48 | 146 |
|    | 54 | 116 |
|    | 60 | 94  |

+ - Pounds per square foot

(a) - 2 in. aluminum reinforcement

(b) - 4 in. aluminum reinforcement

(c) - 6 in. aluminum reinforcement

Reference should be made to the manufacturer's installation instructions for mullion reinforcement details.

See Windstorm-rated Assemblies ([ZHLA](#)) for listing of specific products, a summary of the construction details and the ratings applicable to each assembly.

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