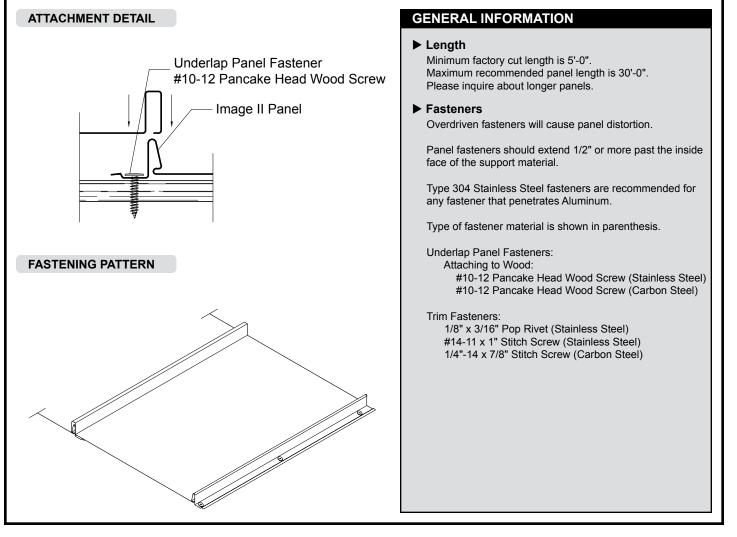


ICC Evaluation Report - ESR-2385

## ALUMINUM IMAGE II

## Condensed Technical Reference



| SECTION PROPERTIES |                    |                     |                      |                    |                            |                               | ALLOWABLE UNIFORM LOADS, psf<br>(3 or More Equal Spans) |    |       |      |       |    |
|--------------------|--------------------|---------------------|----------------------|--------------------|----------------------------|-------------------------------|---------------------------------------------------------|----|-------|------|-------|----|
| Thick<br>in        | <b>Width</b><br>in | <b>Yield</b><br>ksi | <b>Weight</b><br>psf | <b>I</b><br>in⁴/ft | S <sub>Top</sub><br>in³/ft | S <sub>Bottom</sub><br>in³/ft | Outward Load                                            |    |       |      |       |    |
|                    |                    |                     |                      |                    |                            |                               | 0.5'                                                    | 1' | 1.25' | 1.5' | 1.75' | 2' |
| 0.032              | 12                 | 24                  | 0.62                 | 0.0370             | 0.0411                     | 0.1963                        | 107                                                     | 79 | 64    | 50   | 36    | 22 |
| 0.032              | 16                 | 24                  | 0.57                 | 0.0293             | 0.0314                     | 0.1754                        | 107                                                     | 79 | 64    | 50   | 36    | 22 |

 Theoretical section properties have been calculated per 2010 Aluminum Design Manual. I, S<sub>Top</sub> and S<sub>Bottom</sub> are section properties for deflection and bending.

 Allowable load is calculated in accordance with 2010 Aluminum Design Manual specifications considering bending, shear, combined bending and shear, deflection and uplift load testing per UL 580 over 7/16" OSB. Values at 0.5' and 2' are based on test results. Other values are determined by linear interpolation. Allowable load does not address web crippling or the performance of other fasteners or support materials.

3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.

4. Allowable loads do not include a 1/3 stress increase in uplift.

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