

# CLADDING

## AD150

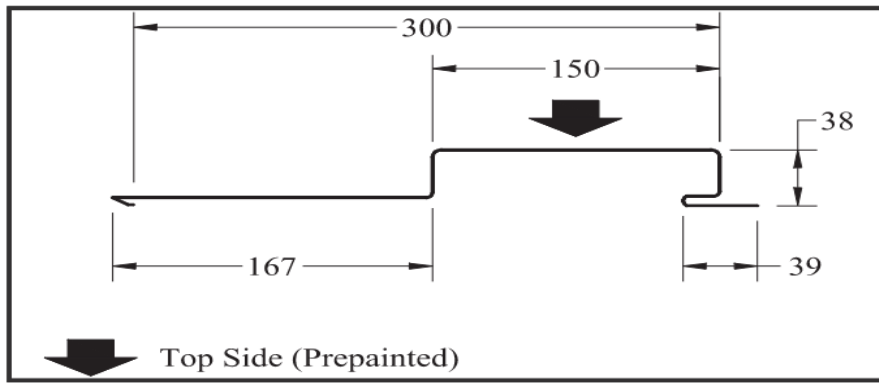
Metric

### PHYSICAL

(PER METRE WIDTH) In accordance with CSA Specification S136-07

### LOAD TABLE

Maximum Specified Uniformly Distributed Load in kN/m<sup>2</sup> (kPa)



### LIMIT STATES DESIGN

#### Note

- Properties and loads are based on Grade 230 Steel with a minimum yield stress of 230 MPa, and a maximum stress under Factored loads of 207 MPa.
- Figures in Row B indicate the load capacity based on strength. Strength capacity B should be checked against [Specified Live Load]+[0.833 x Specified Dead Load].
- Where cladding is subjected only to wind load, strength values may be increased by 7%.
- Figures in row D indicate the load capacity based on deflection of 1/180th span. For allowable deflection of 1/90th span, values in Row D can be doubled, but must not exceed the value in Row B. Deflection capacity should be checked against specified Load(s).
- An \* indicates capacity has been reduced to account for web crippling.

| Base Steel Nominal Thickness (mm) | Nominal Thickness Z275 Coating (mm) | Mass with Coating (kg/m <sup>2</sup> ) | Section Modulus                              |  | Moment of Inertia (mm <sup>4</sup> x 10 <sup>5</sup> ) | Factored Resistance |               |               |               |
|-----------------------------------|-------------------------------------|--|--|--|--|---------------------|---------------|---------------|---------------|
|                                   |                                     |  | Midspan (mm <sup>3</sup> x 10 <sup>3</sup> ) | Support (mm <sup>3</sup> x 10 <sup>3</sup> ) |  | Moment              |               | Reaction      |               |
|                                   |                                     |  |  |  |  | Midspan (N-m)       | Support (N-m) | Exterior (kN) | Interior (kN) |
| 0.46                              | 0.50                                | -----                                  | -----  | -----  | -----  | -----               | -----         | -----         | -----         |
| 0.61                              | 0.65                                | -----                                  | -----  | -----  | -----  | -----               | -----         | -----         | -----         |
| 0.76                              | 0.80                                | 9.35                                   | 5.12   | 7.93   | 143.3  | 1059.8              | 1641.5        | 5.8           | 8.3           |
| 0.91                              | 0.95                                | 11.11                                  | 6.82   | 10.67  | 186.5  | 1411.7              | 2208.7        | 8.1           | 11.7          |
| 1.22                              | 1.26                                | -----                                  | -----  | -----  | -----  | -----               | -----         | -----         | -----         |

| Support Spacing (mm) |   | 1-Span Base Steel Nominal Thickness (mm) |      |      |      |      | 2-Span Base Steel Nominal Thickness (mm) |      |      |      |      | 3-Span Base Steel Nominal Thickness (mm) |      |      |      |      |
|----------------------|---|--|------|------|------|------|--|------|------|------|------|--|------|------|------|------|
|                      |   | 0.46                                     | 0.61 | 0.76 | 0.91 | 1.22 | 0.46                                     | 0.61 | 0.76 | 0.91 | 1.22 | 0.46                                     | 0.61 | 0.76 | 0.91 | 1.22 |
|                      |   | 1200                                     | B    |      |      | 3.9  | 5.2                                      |      |      |      | 3.7* | 5.2*                                     |      |      |      | 4.2* |
|                      | D |  |      | 7.2  | 9.3  |      |  |      | 17.2 | 22.4 |      |  |      | 13.6 | 17.7 |      |
| 1400                 | B |  |      | 2.9  | 3.8  |      |  |      | 3.2* | 4.5* |      |  |      | 3.6* | 5.1* |      |
|                      | D |  |      | 4.5  | 5.9  |      |  |      | 10.9 | 14.1 |      |  |      | 8.5  | 11.1 |      |
| 1600                 | B |  |      | 2.2  | 2.9  |      |  |      | 2.8* | 3.9* |      |  |      | 3.1* | 4.4* |      |
|                      | D |  |      | 3.0  | 3.9  |      |  |      | 7.3  | 9.5  |      |  |      | 5.7  | 7.5  |      |
| 1800                 | B |  |      | 1.7  | 2.3  |      |  |      | 2.5* | 3.5* |      |  |      | 2.7  | 3.6  |      |
|                      | D |  |      | 2.1  | 2.8  |      |  |      | 5.1  | 6.6  |      |  |      | 4.0  | 5.2  |      |
| 2000                 | B |  |      | 1.4  | 1.9  |      |  |      | 2.2  | 2.9  |      |  |      | 2.2  | 2.9  |      |
|                      | D |  |      | 1.6  | 2.0  |      |  |      | 3.7  | 4.8  |      |  |      | 2.9  | 3.8  |      |
| 2200                 | B |  |      | 1.2  | 1.6  |      |  |      | 1.8  | 2.4  |      |  |      | 1.8  | 2.4  |      |
|                      | D |  |      | 1.2  | 1.5  |      |  |      | 2.8  | 3.6  |      |  |      | 2.2  | 2.9  |      |
| 2400                 | B |  |      |      | 1.3  |      |  |      | 1.5  | 2.0  |      |  |      | 1.5  | 2.0  |      |
|                      | D |  |      |      | 1.2  |      |  |      | 2.2  | 2.8  |      |  |      | 1.7  | 2.2  |      |
| 2600                 | B |  |      |      | 1.1  |      |  |      | 1.3  | 1.7  |      |  |      | 1.3  | 1.7  |      |
|                      | D |  |      |      | 0.9  |      |  |      | 1.7  | 2.2  |      |  |      | 1.3  | 1.7  |      |
| 2800                 | B |  |      |      |      |      |  |      | 1.1  | 1.5  |      |  |      | 1.1  | 1.5  |      |
|                      | D |  |      |      |      |      |  |      | 1.4  | 1.8  |      |  |      | 1.1  | 1.4  |      |
| 3000                 | B |  |      |      |      |      |  |      |      | 1.3  |      |  |      |      | 1.3  |      |
|                      | D |  |      |      |      |      |  |      |      | 1.4  |      |  |      |      | 1.1  |      |
| 3200                 | B |  |      |      |      |      |  |      |      | 1.2  |      |  |      |      | 1.1  |      |
|                      | D |  |      |      |      |      |  |      |      | 1.2  |      |  |      |      | 0.9  |      |

In accordance with ongoing efforts to improve our products and their performance, Vicwest reserves the right to change without notice the specifications contained herein.

The contents herein are for general information and illustrative purposes only and are not intended to serve as any type of advice. Every effort is made to ensure the accuracy of the information included in this brochure and it is believed that the information contained herein is accurate and reliable as of the date of publication. Vicwest, however, does not warrant or represent the accuracy or reliability of any information included in this brochure. Any reliance on any information without consultation with Vicwest or a duly authorized representative shall be at the user's own risk. ©2010, Vicwest – All rights reserved

