

# Classification of Continuous Insulation Z-Girts

| CODE-COMPLIANT<br>Thermally Broken Systems                                                                                       |                                                                                                                                      |                                                                                                                                         | NOT CODE-COMPLIANT<br>Legacy System                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| CLASS I<br>Composite metal<br>hybrid Z-girts                                                                                     | CLASS II<br>Perforated thermal<br>metal Z-girts                                                                                      | CLASS III<br>FRP<br>Z-girts                                                                                                             | Steel<br>Z-girts                                                                                                                  |
| <br><b>HIGH</b><br>structural capacity          | <br><b>MODERATE</b><br>structural capacity          | <br><b>LOW</b><br>structural capacity                 | <br><b>HIGH</b><br>structural capacity         |
| <br><b>LONG-TERM</b><br>structural performance  | <br><b>LONG-TERM</b><br>structural performance      | <br><b>TEMPORARY</b><br>structural performance        | <br><b>LONG-TERM</b><br>structural performance |
| <br><b>PERMANENT</b><br>connections            | <br><b>PERMANENT</b><br>connections                | <br><b>UNAVOIDABLE<br/>FAILURE</b><br>at connections | <br><b>PERMANENT</b><br>connections           |
| <br><b>HIGH</b><br>static thermal performance | <br><b>MODERATE</b><br>static thermal performance | <br><b>HIGH</b><br>static thermal performance       | <br><b>LOW</b><br>static thermal performance |
| <br><b>YES</b><br>eliminates thermal bypass   | <br><b>NO</b><br>eliminates thermal bypass        | <br><b>NO</b><br>eliminates thermal bypass          | <br><b>NO</b><br>eliminates thermal bypass   |
| <br><b>PASS</b><br>NFPA 285                   | <br><b>PASS</b><br>NFPA 285                       | <br><b>MODERATE</b><br>NFPA 285                     | <br><b>PASS</b><br>NFPA 285                  |