

# QuadCore® B Designwall R Series Data Sheet

Architectural Insulated Wall Panel System

Architectural Insulated  
Metal Panel Systems  
North America



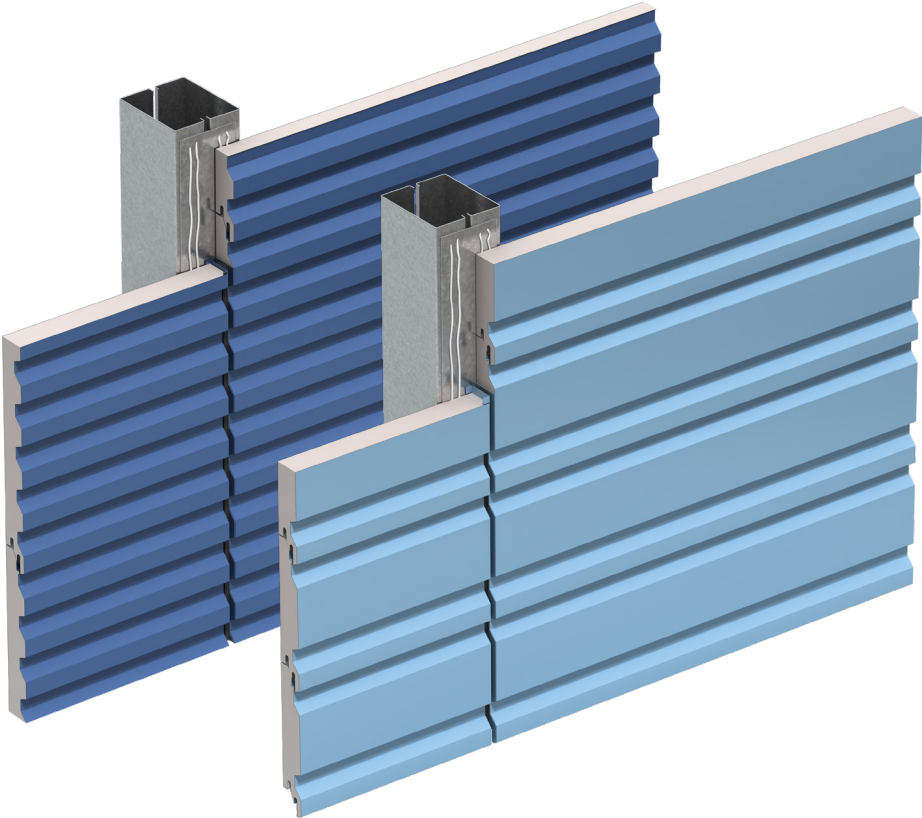
BENCHMARK™

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## Architectural Insulated Wall Panel System

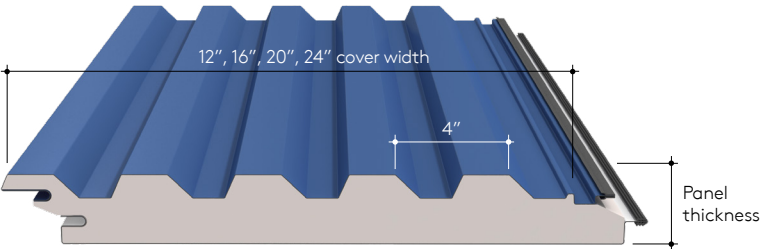
### Product Specification

|                         |                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------|
| Insulation core:        | QuadCore B Technology                                                                                     |
| Profile:                | Exterior: Ribbed<br>Interior: Flat                                                                        |
| Embossing:              | Exterior: Stucco or non-embossed<br>Interior: Stucco or non-embossed                                      |
| Gauge:                  | Exterior: 22 ga<br>Interior: 24, 22 ga                                                                    |
| Width:                  | 2000R: 12", 16", 20", 24"<br>2000R-459: 12", 24"                                                          |
| Thickness:              | 2.5", 3", 4"                                                                                              |
| Length:                 | 2' – 24'                                                                                                  |
| Standard reveal option: | N/A                                                                                                       |
| Orientation:            | Vertical or horizontal                                                                                    |
| Post fabrication:       | Transverse bends, end caps (Manufacturing limitations apply. Please contact us for detailed information.) |
| R-value:                | Please see Thermal Transmission section on next page                                                      |
| Production method:      | Structurally bonded                                                                                       |

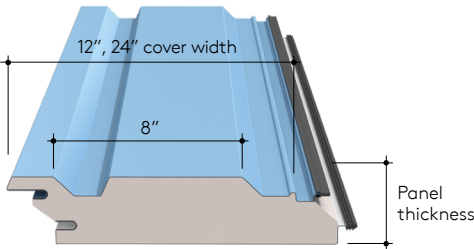


Designwall R Series powered by QuadCore B is a profiled, accented version of Designwall 2000 with ribs at 7/8" deep. Available in two different profile spacings, this unique panel provides design options in achieving accented lines on an elevation. The R Series panels add a bold, profiled look to commercial construction. Designwall R Series directly engages with the same thickness panels of Designwall 2000 or Designwall 4000.

### Designwall 2000R



### Designwall 2000R-459



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## Architectural Insulated Wall Panel System

| Test       | Procedure | Results                                                                                                                                                                                                                                                                                                                      |
|------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire       | FM 4880   | Passed: Class 1 Fire Rating of Building Panels or Interior Finish Materials*                                                                                                                                                                                                                                                 |
|            | ASTM E84  | Flame spread <25, smoke developed <90                                                                                                                                                                                                                                                                                        |
|            | NFPA 259  | Tested for potential heat of building materials                                                                                                                                                                                                                                                                              |
|            | NFPA 285  | Passed. Standard fire test method for evaluation of fire propagation characteristics of exterior non-load-bearing wall assemblies containing combustible components in multi-story applications. Installation must include fire-rated gaskets and thermal barrier. Contact Kingspan Technical Services for more information. |
|            | NFPA 286  | Passed. Standard methods of fire tests for evaluating contribution of wall and ceiling interior finish to room fire growth                                                                                                                                                                                                   |
| Structural | FM 4881   | Passed. For complete wind pressure ratings please contact Kingspan Technical Services or refer to ApprovalGuide.com*                                                                                                                                                                                                         |
|            | ASTM E72  | Vacuum chamber tested. Panel load /span and deflection tables are available                                                                                                                                                                                                                                                  |

| Test                 | Procedure                           | Results                                                                                                                                               |
|----------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thermal Transmission | ASTM C518                           | Thermal Performance                                                                                                                                   |
|                      |                                     | at 75°F mean temperature                                                                                                                              |
|                      |                                     | at 35°F mean temperature                                                                                                                              |
|                      |                                     | Thickness R-Value Thickness R-Value                                                                                                                   |
|                      |                                     | 2.5" 10.4 2.5" 11.5                                                                                                                                   |
| Air Infiltration     | ASTM E283                           | 0.01 CFM/ft <sup>2</sup> air infiltration rate at 20 psf                                                                                              |
|                      |                                     |                                                                                                                                                       |
|                      |                                     |                                                                                                                                                       |
| Water Penetration    | ASTM E331                           | No uncontrolled water penetration at 20 psf differential pressure. No water penetration at 6.24 psf pressure differential for a two (2) hour duration |
|                      | AAMA 501.1                          | Dynamic water pressure testing – no sign of water leakage at 15 psf                                                                                   |
| Regional Approvals   | City of Los Angeles                 | CCRR-1037 and FB 3080.1 (min. width = 24")                                                                                                            |
|                      | Florida Product Approval            | FL 31365.1 (max. width = 24")                                                                                                                         |
|                      | Miami-Dade Listing                  | NOA 25-0801.02 (max. width = 24")                                                                                                                     |
|                      | Texas Department of Insurance (TDI) | NOA 25-0801.02 (max. width = 24")                                                                                                                     |

\*Maximum thickness: 4", Minimum width: 12", Min. panel length: 8', Min. gauge: Exterior 22 ga, Interior 24 ga. For FM compliance, systems must be installed in accordance with FM installation specifications as detailed on ApprovalGuide.com. Please contact technical. NA@kingspanpanels.com for detailed information or refer to ApprovalGuide.com.



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# Contact Details

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## USA

Columbus, OH: 888-332-5862  
Modesto, CA: 800-377-5110

info.na@kingspanpanels.com  
**www.kingspanpanels.us**



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