## QAI Design B1056-1g – Icynene Inc. – NFPA 285

### Exterior Non-Load Bearing Wall Assembly

<table>
<thead>
<tr>
<th>No.</th>
<th>COMPONENT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>
| 1   | Exterior Sheathing | **Sheathing Type:** Must meet the requirements of ASTM C1777 for Glass Mat Gypsum Substrate  
**Minimum Thickness:** 1/2 inch (12 mm)  
**Vertical Joint Offset:** Vertical joints must have a minimum 16 inches (400 mm) offset from the interior gypsum board (Item 6)  
**Horizontal Joint Offset:** Horizontal joints must have a minimum 24 inches (610 mm) offset from the interior gypsum board (Item 6)  
**Minimum Fastener Size:** #6 x 1-1/4 inch (32 mm) long self-taping zinc plated drywall screws  
**Maximum Fastener Spacing:** 8 inches (200 mm) on center around the perimeter and the field |
| 2   | Steel Stud | **Minimum Gauge:** 18 ga galvanized steel stud meeting the requirements of ASTM A370 or CAN/CSA-S136  
**Minimum Size:** 6 inch (152 mm) deep  
**Maximum Spacing:** 16 inches (400 mm) on center  
**Installation:** As per ASTM C955 |
| 3   | Insulation | **Certified Company:** Icynene, Inc.  
**Certified Product:** Polyurethane Foam Insulation  
**Certified Model(s):** Classic (LD-C-50™), Classic Max (LD-C-50™ V2), Classic Max Select (LD-C-50™ V2.4), Classic Plus (LD-C-70™), Classic ECO (LD-R-50™), Pro Seal (MD-C-200™) and Pro Seal ECO (MD-R-210™)  
**Application:** Spray applied  
**Maximum Thickness:** 6 inches (152 mm)  
**Maximum Density:** 0.55 lbs/ft³ (9 kg/m³) [Classic, Classic Max, Classic Max Select & Classic ECO]  
0.77 lbs/ft³ (12 kg/m³) [Classic Plus]  
2.0 lbs/ft³ (35 kg/m³) [Pro Seal]  
2.3 lbs/ft³ (37 kg/m³) [Pro Seal ECO]  
**Details:** Applied between the steel stud (Item 4) cavities. Trim any excess insulation (trim insulation flush with the front edge of the steel stud) (Item 4) |
| 4   | Gypsum Board | **Type:** Type X Gypsum Board meeting the requirements of ASTM C1396 or CAN/CSA-A82.27  
**Minimum Thickness:** 5/8 inch (16 mm)  
**Minimum Fastener Size:** #6 x 1-1/4” (32 mm) long self-taping zinc plated drywall screws  
**Maximum Fastener Spacing:** 8 inches (200 mm) on center around the perimeter and 12 inches (305 mm) on center in the field  
**Finish:** Joints to be tapped and mudded, and fastener heads to be mudded to a level 2 finish as per ASTM C840 or CSA A82.31-M & Gypsum Association GA-216/214 |

Visit the QAI Online Listing Directory located at [www.qai.org](http://www.qai.org) for the most up to date version of this Listing and to validate that this QAI Listing is active.