



WORLDWIDE PARTNER

THE SCIENCE OF COMFORT FOR MODULAR HOUSES

DOW SOLUTIONS TO HELP MAKE HOUSING MORE COMFORTABLE FOR BUS, VAN AND SEDAN DRIVERS AT THE OLYMPIC GAMES

At the Olympic Winter Games PyeongChang 2018, drivers responsible for transporting people around the Olympic host city will be lodging in modular houses. Dow's PAPI™ Polymeric MDI is used in the houses' PIR (polyisocyanurate) panels to insulate the walls and roofs, and help deliver four distinct advantages:

- Easy installation with just one tool
- Cost efficiency with high thermal installation and shorter construction periods
- Reduced construction waste and use of manufactured wood
- Customization through finishing variations

KEEPING WARM AIR IN AND COLD AIR OUT

With the average temperature in PyeongChang expected to be at 1-2°C (33-35°F) in February, it is imperative that the modular houses are designed to keep the drivers warm, while also maintaining energy and cost efficiency. The modular houses have been weather-sealed with durable, fire-resistant *Dow Corning*® 1001 Perimeter Silicone Sealant, which is inherently impervious to damaging ultraviolet (UV) light from sun and, when cured, is stable at temperatures from -40°C (-104°F) to 150°C (302°F).





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PERFORMANCE AND VERSATILITY OFFER A LONG-TERM SOLUTION

Modular houses using PIR panels were constructed in hours, rather than days, and at less than half the typical cost leading up to the Olympic Winter Games. Dow's PAPI™ Polymeric MDI in the panels offer high thermal insulation performance with thinner material, helping reduce waste and overall cost.

These energy-efficient structures require roughly half the amount of energy as compared to those with standard insulation panels, and are 98% recyclable. Following the Olympic Winter Games, the modular houses will be repurposed in other locations to serve as housing for military personnel.



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Media Contact: LINDA LIM | Dow Olympic & Sports Solutions

llim2@dow.com | +65.9626.7662

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