



# **Acoustic & Thermal Insulation For Metal Deck Roofs**

Single Deck Application

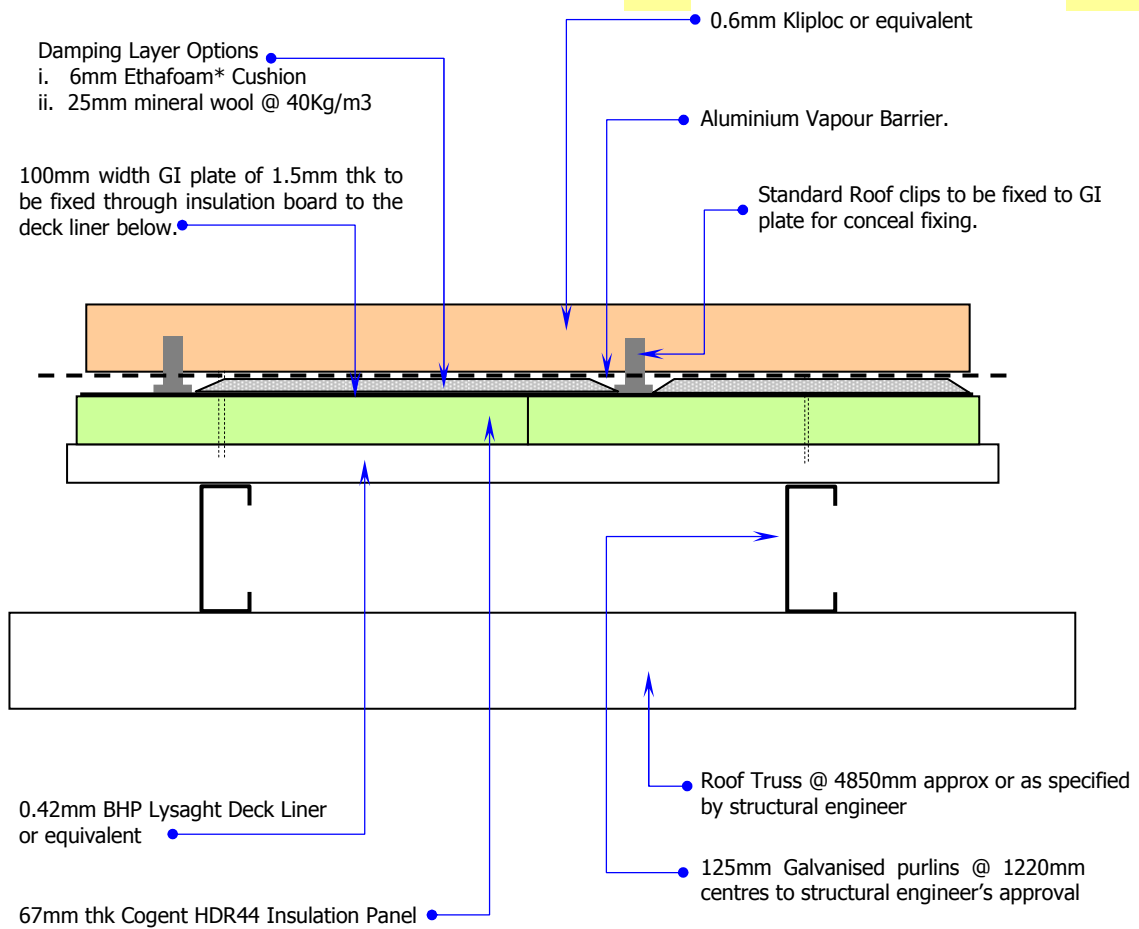
Top Deck + Deck Liner  
Application

Curve Roof Application

 **Mudahjuta Industries Sdn Bhd** 147668U  
3A, Jalan Telawi 5, Bangsar Baru  
59100 Kuala Lumpur  
Tel 22841019 Fax 22842339  
email [enquiry@misb.com.my](mailto:enquiry@misb.com.my)

**A. Metal Decks**  
**Acoustic and Thermal Insulation**  
*Double Deck Application*

**Acoustic Rating** **STC 45-47**  
**U Value** **0.48 W/m2K**



**Cogent HDRe 44**

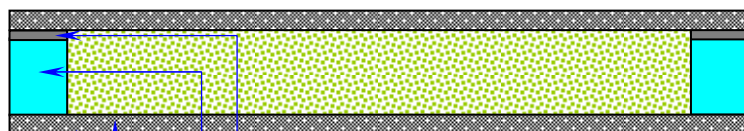
Panel Size : **1220 x 1220mm**  
 Thickness : **67 mm**  
 Weight : **18.5 kg/m2**

**Exoskeleton**

6mm HD Shield Fibrous Silicate  
 External Cladding boards that can be exposed to the most demanding weather conditions during installation.

**Insulation Infill**

Insulation Infill to be mineral wool in accordance with acoustic data provided for HDRe44



**Isolation**

The two panels are isolated at their connection with 5mm Ethafoam\* Isolators

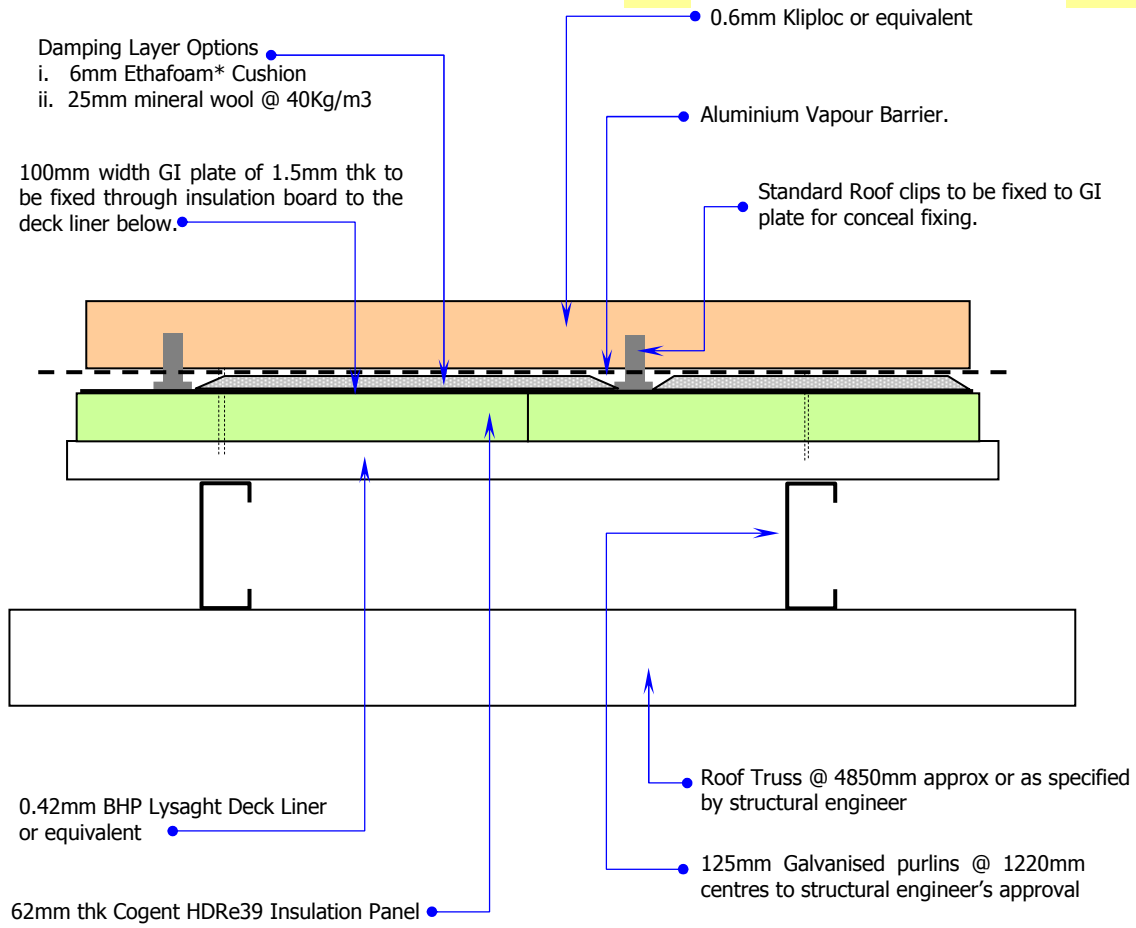
**Framework of Panel**

Framework shall be made from lightweight Dow Styrofoam\* LB of 300kN/m2 compressive strength to receive screw fixing. Styrofoam\* provides a watertight panel.

**NB 125Hz to have a minimum reduction of 22dB**

**B. Metal Decks**  
**Acoustic and Thermal Insulation**  
*Double Deck Application*

**Acoustic Rating** **STC 40-42**  
**U Value** **0.48 W/m<sup>2</sup>K**

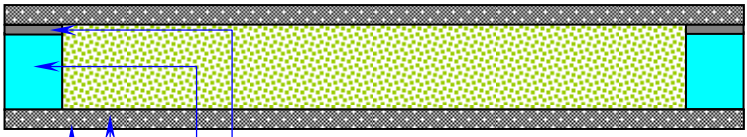


**Cogent HDRe 39**

Panel Size : **1220 x 1220mm**  
 Thickness : **62mm**  
 Weight : **17 kg/m<sup>2</sup>**

**Exoskeleton**  
 4.5mm HD Shield Fibrous Silicate  
 External Cladding boards that can be exposed to the most demanding weather conditions during installation.

**Insulation Infill**  
 Insulation Infill to be mineral wool in accordance with acoustic data provided for HDRe39

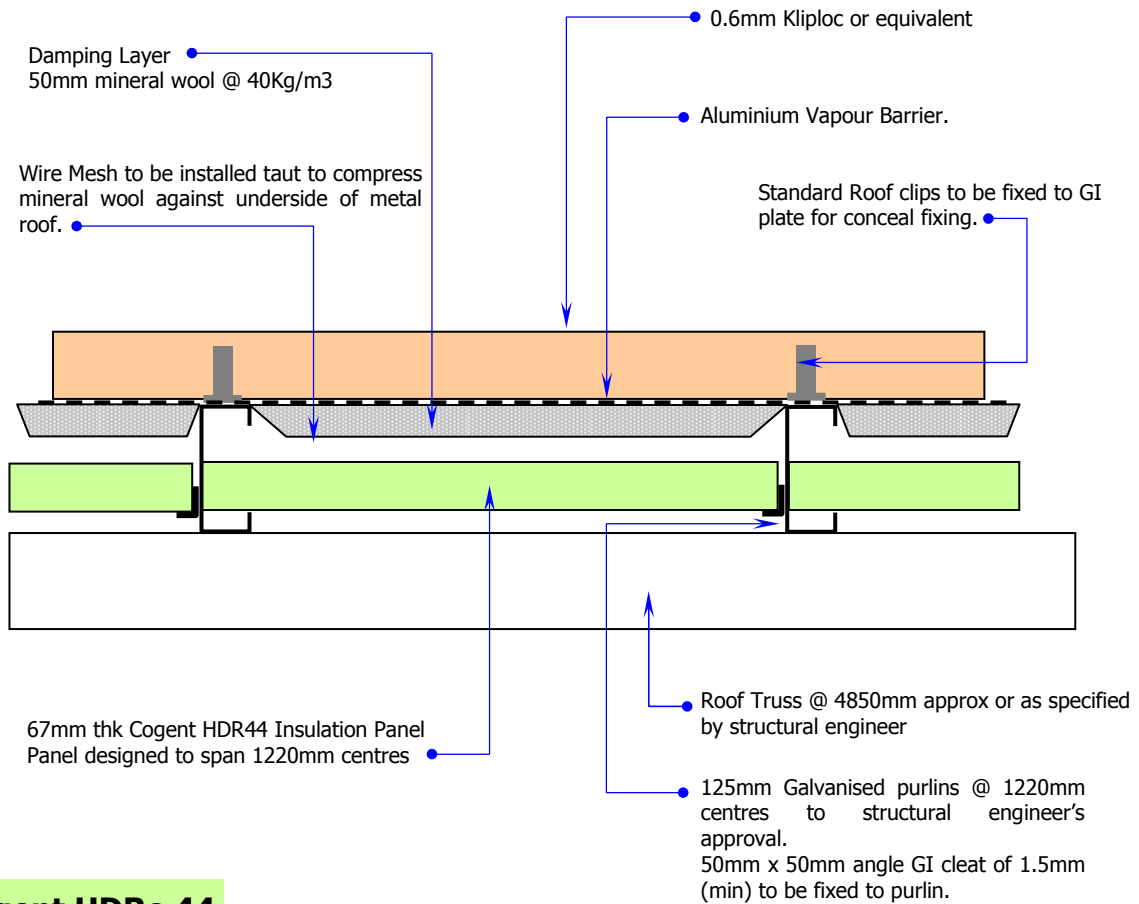


**Isolation**  
 The two panels are isolated at their connection with 3mm Ethafoam\* impact

**Framework of Panel**  
 Framework shall be made from lightweight Styrofoam\* LB of 300kN/m<sup>2</sup> compressive strength to receive screw fixing. Styrofoam\* provides a watertight panel.

**C. Metal Decks**  
**Acoustic and Thermal Insulation**  
*Single Deck Application*

<b>Acoustic Rating</b>	<b>STC 46-48</b>
<b>U Value</b>	<b>0.36 W/m2K</b>

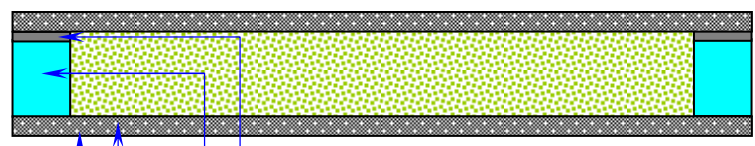


**Cogent HDRe 44**

Panel Size : **1220 x 1220mm**  
 Thickness : **67mm**  
 Weight : **18.5 kg/m2**

**Exoskeleton**  
 6mm HD Shield Fibrous Silicate  
 External Cladding boards that can be exposed to the most demanding weather conditions during installation.

**Insulation Infill**  
 Insulation Infill to be mineral wool in accordance with acoustic data provided for HDRe44



**Isolation**  
 The two panels are isolated at their connection with 5mm Ethafoam\* impact

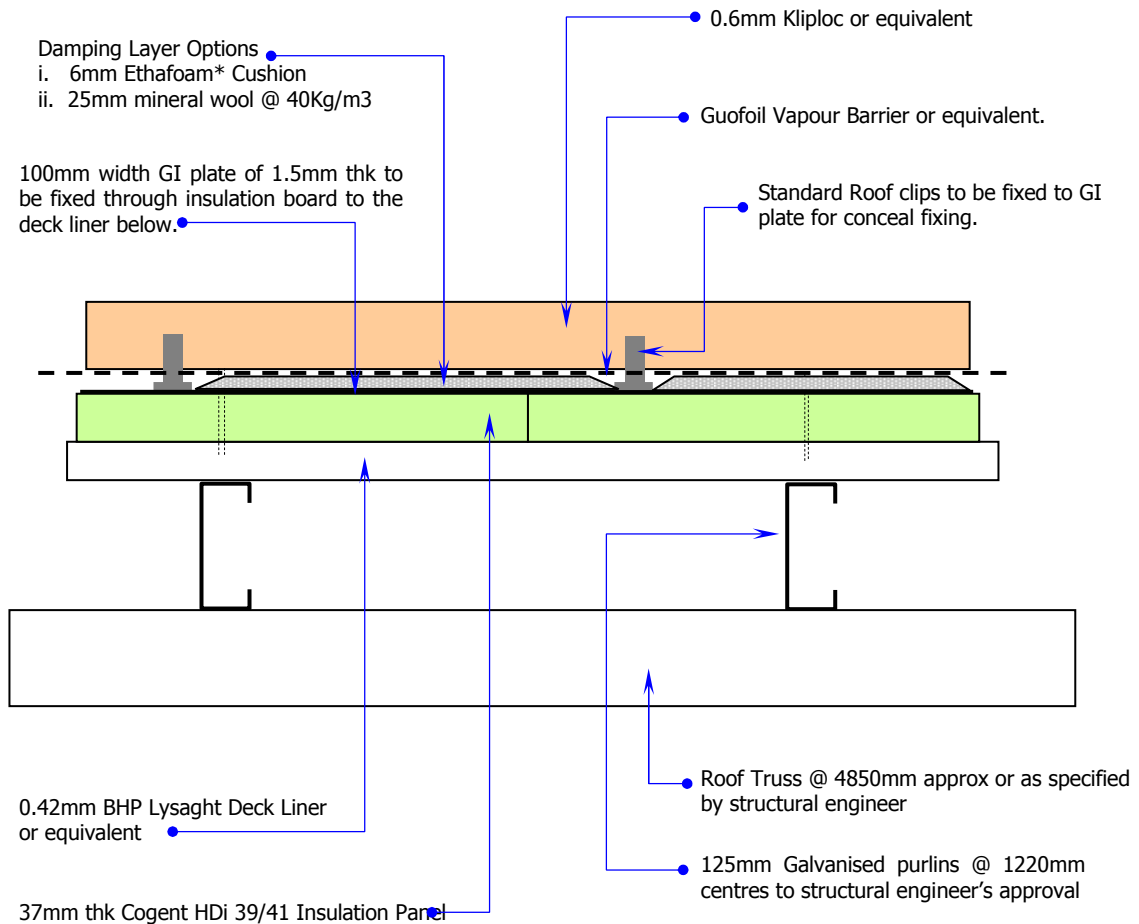
**Framework of Panel**  
 Framework shall be made from lightweight Styrofoam\* LB of 300kN/m2 compressive strength to receive screw fixing. Styrofoam\* provides a watertight panel.

**NB 125Hz to have a minimum reduction of 22dB**

**D. Metal Decks**  
**Acoustic and Thermal Insulation**  
*Curve Deck Application*

**For Curve Roofs**

**Acoustic Rating**      **STC 44-46**  
**U Value**                **0.48 W/m<sup>2</sup>K**

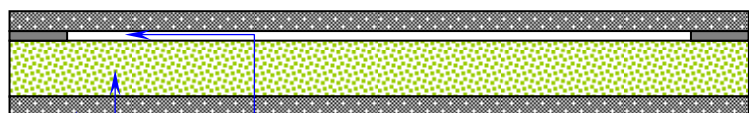


**Cogent HDi 39/41**

Panel Size : **1220 x 1220mm**  
 Thickness : **37mm**  
 Weight : **17.0 kg/m<sup>2</sup>**

**Exoskeleton**  
 6mm HD Shield Fibrous Silicate  
 External Cladding boards that can be exposed to the most demanding weather conditions during installation.

**Insulation Infill**  
 20mm Immotus\* graphite impregnated acoustic core, semi rigid foam that balance compressive strength with acoustic properties.



**Isolation Air Gap**  
 5mm optimum air gap inserted for acoustic performance.

**NB 125Hz to have a minimum reduction of 22dB**