Building type - Type 1

Design number - 15

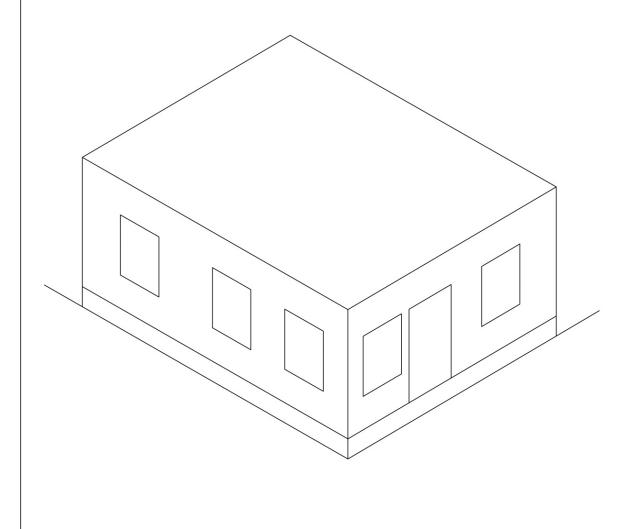
Design case ID - 74

Building design proprity - Daylight performance

Thermal performance - 17 kWh/m²

Daylight performance - 88 %

Climate zone - Adaptively Hot Zone





Thermal performance

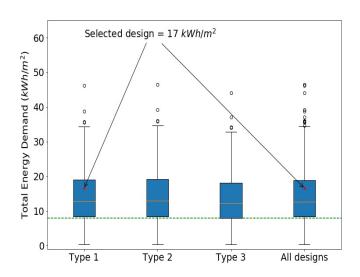


Figure 2. shows the thermal peformance of the selected building design (Building type - Type 1) relative to other designs. The bars show the 25th-75th percentile of hourly data for that month and the whiskers are at 1.5 times interquartile range. The circles show the outliers. The green dotted line represnt the threshold perfromance value.

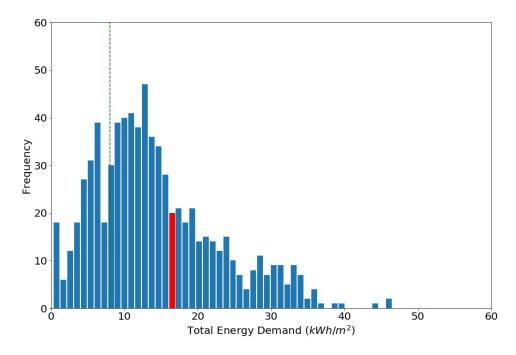


Figure 3. shows the frequency distribution of thermal performance of the building designs when located in the adaptively hot climate zone. The bar corresponding to the selected design is marked in red. The green dotted line represnt the threshold perfromance value.

Daylight performance

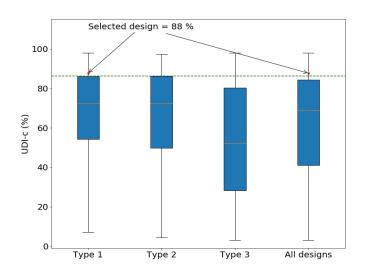


Figure 4. shows the daylight performance of the selected building design (Building type - Type 1) relative to other designs. The bars show the 25th-75th percentile of hourly data for that month and the whiskers are interquartile range. The circles show the outliers. The green dotted line represent the threshold performance value.

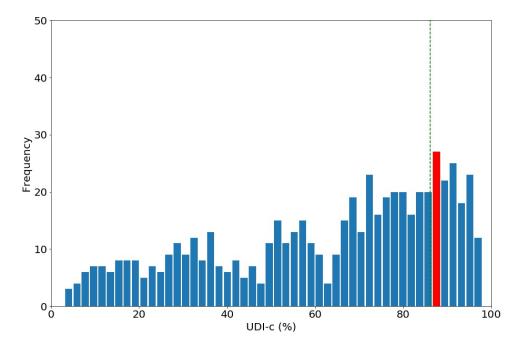


Figure 5. shows the frequency distribution of daylight performance of the building designs when located in the adaptively hot climate zone. The bar corresponding to the selected design is marked in red. The green dotted line represent the threshold perfromance value.

Building design parameter

Parameters	Units	Values
Wall A U value	W/m²K	1.62
Wall D U value	W/m²K	2.79
Floor U value	W/m²K	1.31
Roof u value	W/m²K	2.37
WWR Wall A	%	0.55
WWR Wall B	%	0.22
WWR Wall C	%	0.35
WWR Wall D	%	0.48
Ground reflectance	-	0.14
Wall reflectance	-	0.68
Window transmittance	-	0.42
Ceiling reflectance	-	0.85