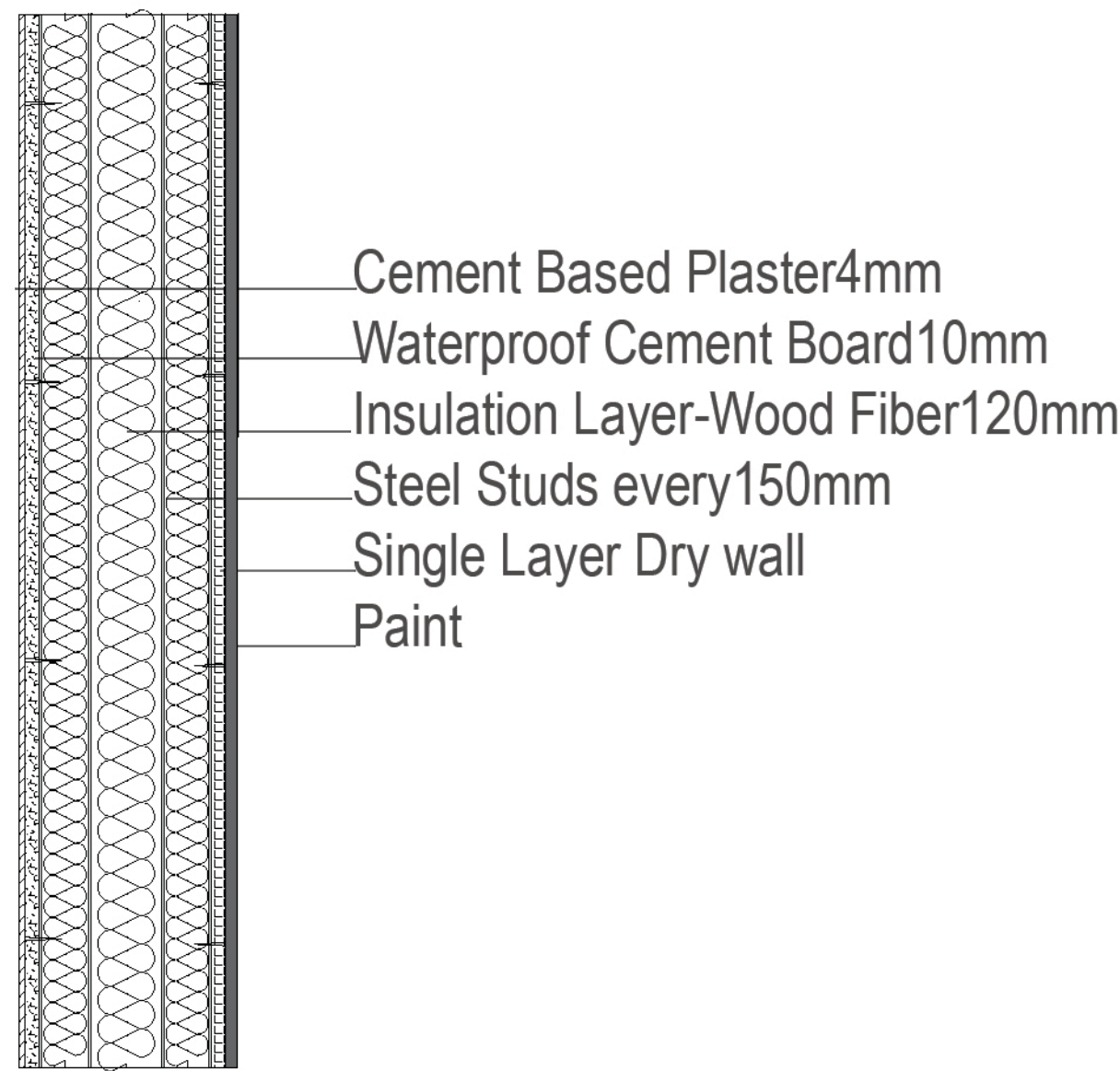
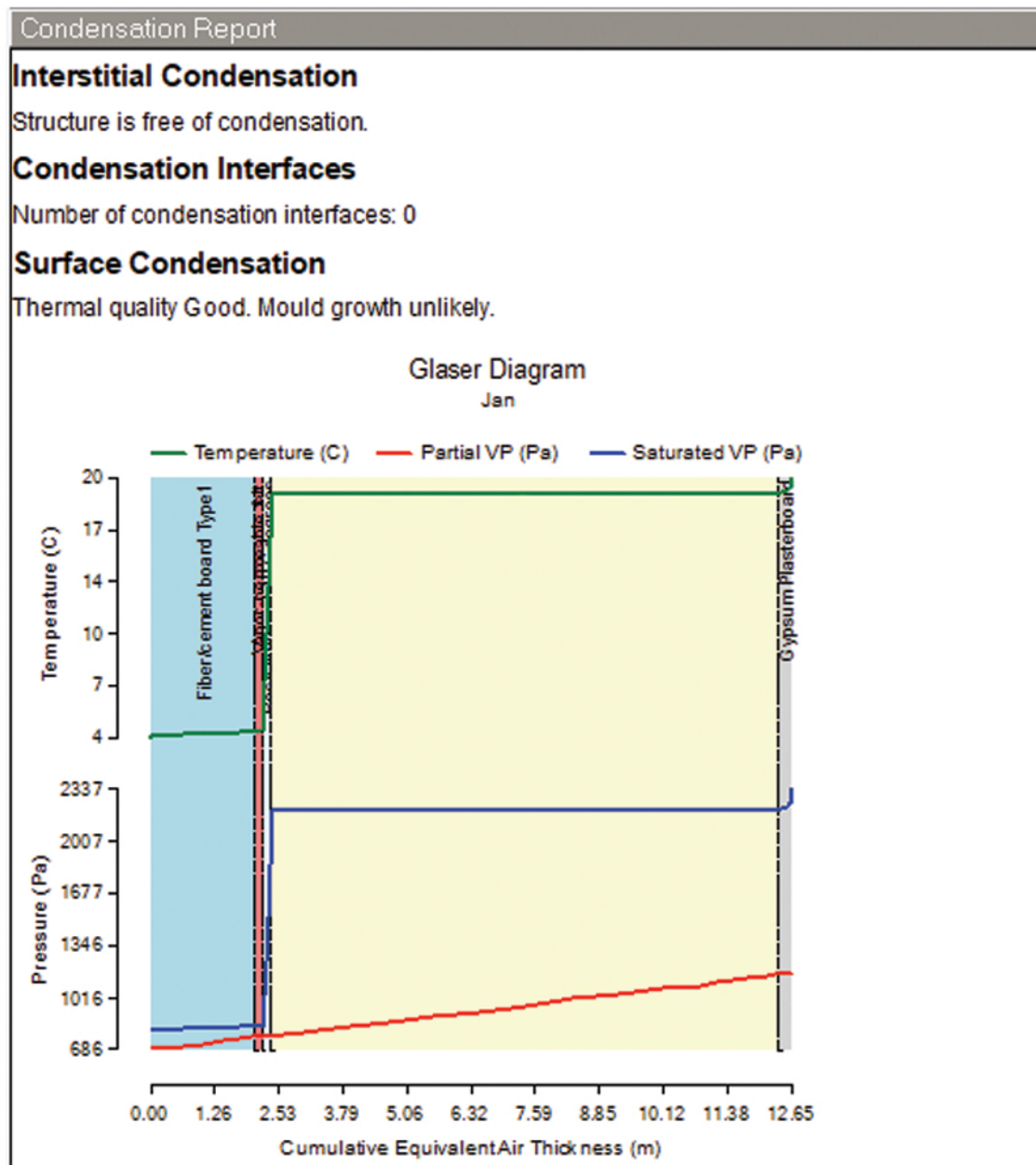


D-01  
External Wall 1.5

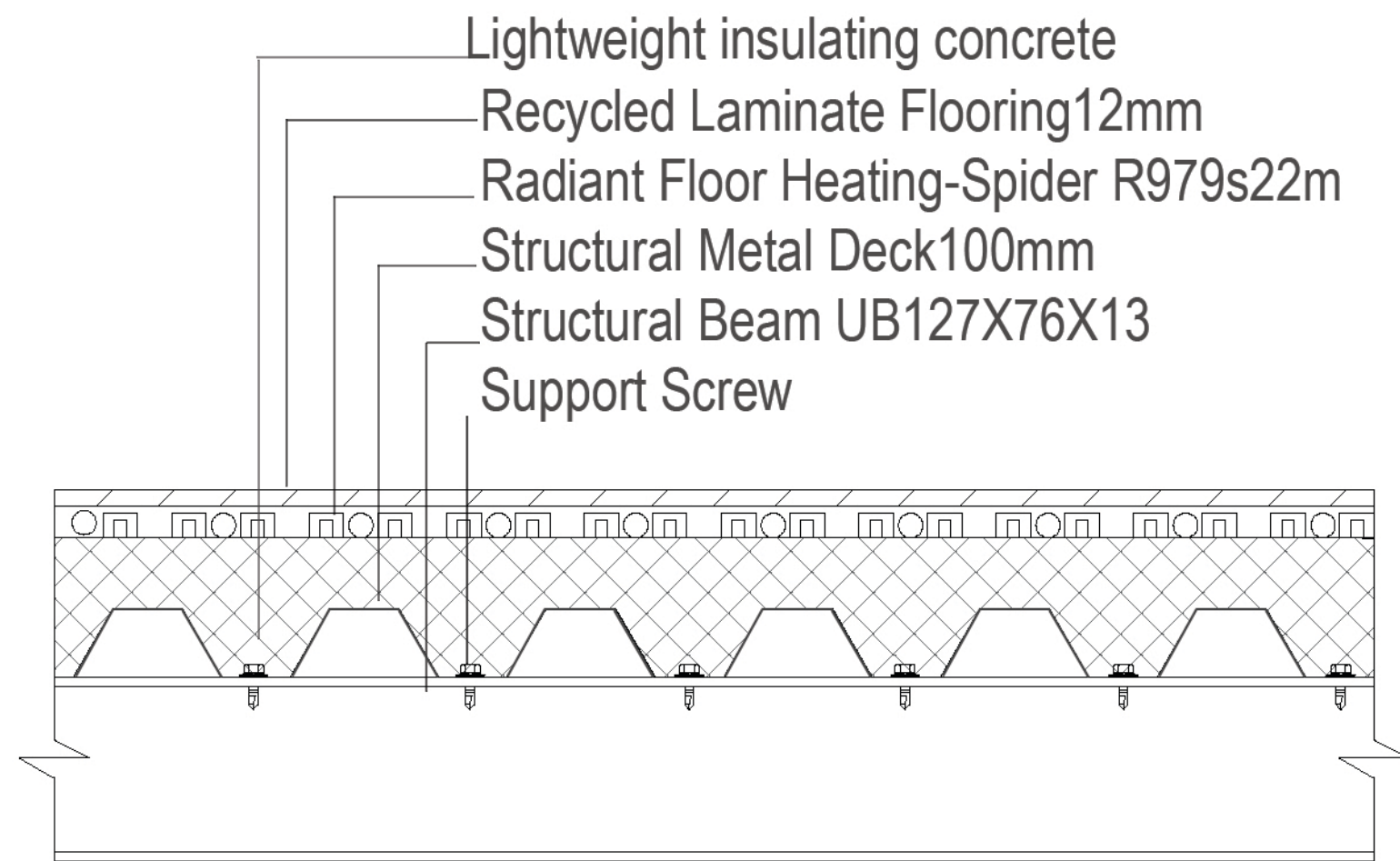


Inner surface	
Convective heat transfer coefficient (W/m <sup>2</sup> -K)	2.152
Radiative heat transfer coefficient (W/m <sup>2</sup> -K)	5.540
Surface resistance (m <sup>2</sup> -K/W)	0.130
Outer surface	
Convective heat transfer coefficient (W/m <sup>2</sup> -K)	19.870
Radiative heat transfer coefficient (W/m <sup>2</sup> -K)	5.130
Surface resistance (m <sup>2</sup> -K/W)	0.040
No Bridging	
U-Value surface to surface (W/m <sup>2</sup> -K)	0.263
R-Value (m <sup>2</sup> -K/W)	3.969
<b>U-Value (W/m<sup>2</sup>-K)</b>	<b>0.202</b>
With Bridging (BS EN ISO 6946)	
Thickness (m)	0.1590
Km - Internal heat capacity (KJ/m <sup>2</sup> -K)	27.7340
Upper resistance limit (m <sup>2</sup> -K/W)	3.969
Lower resistance limit (m <sup>2</sup> -K/W)	3.969
U-Value surface to surface (W/m <sup>2</sup> -K)	0.263
R-Value (m <sup>2</sup> -K/W)	3.969
<b>U-Value (W/m<sup>2</sup>-K)</b>	<b>0.202</b>

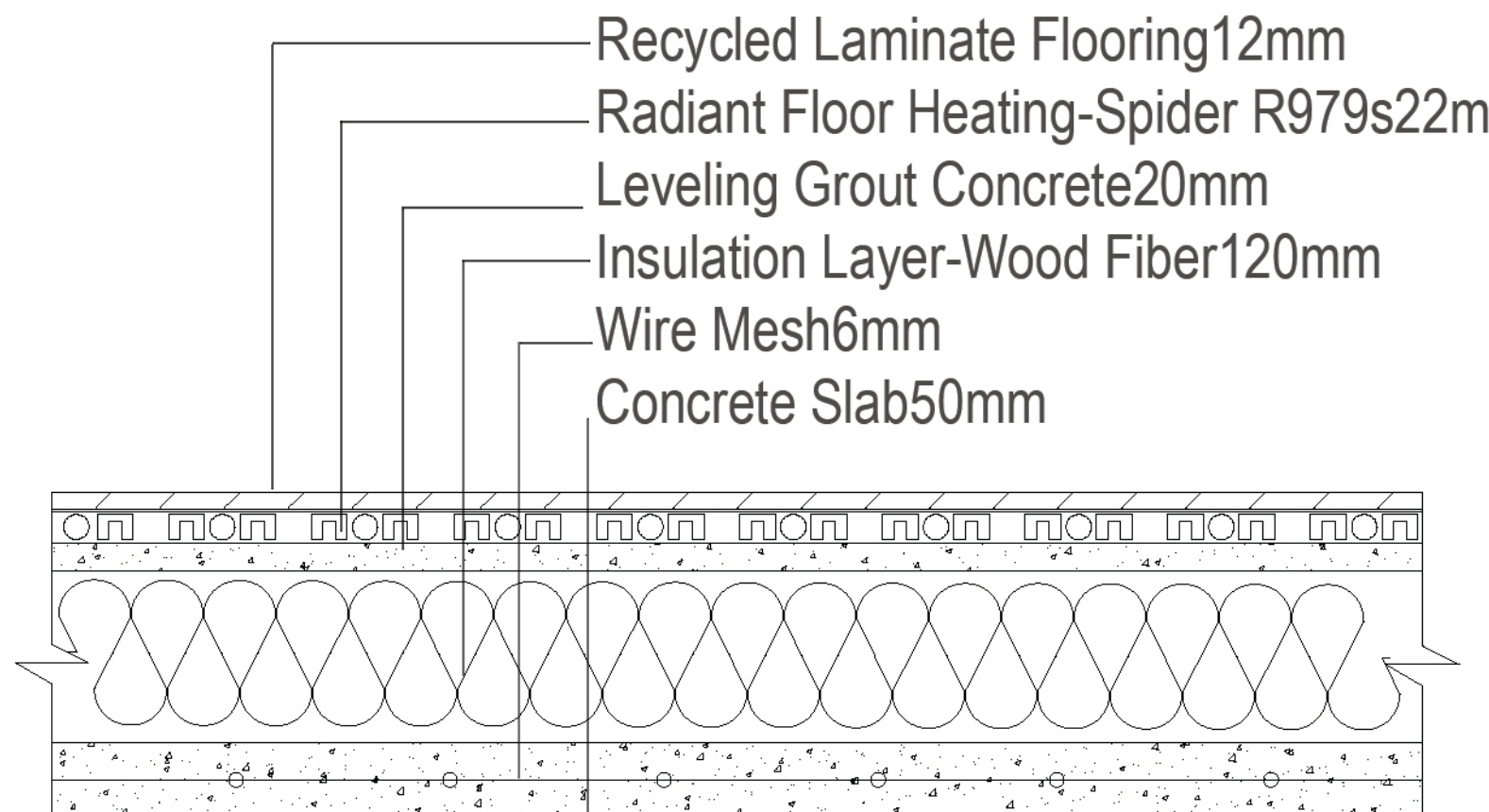


Energy Analysis of the Envelope

D-02  
First Floor 1.5



D-03  
Ground Floor 1.5



Master's Degree  
in Building Engineering

**Candidate:**  
Yashar Jafari

A Tiny House  
District in Milan:  
A Sustainable  
Proposal for  
Affordable Housing

**Supervisor:**  
Professor Marika  
Mangosio

A.Y. 2024-25

Stratigraphy

A132

Scale 1.5