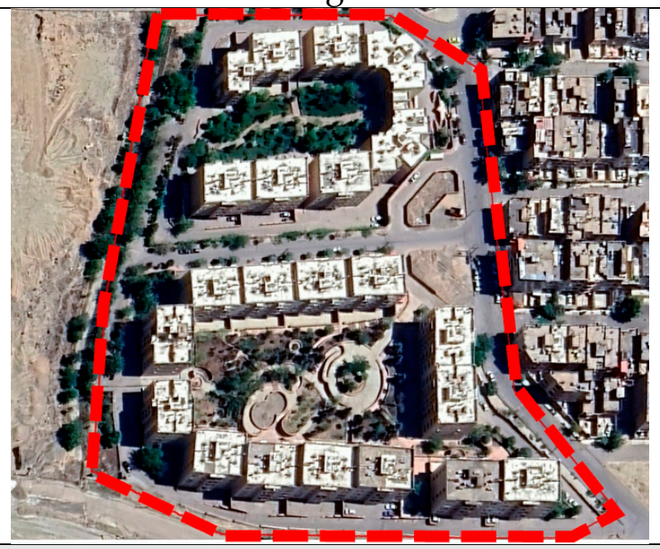
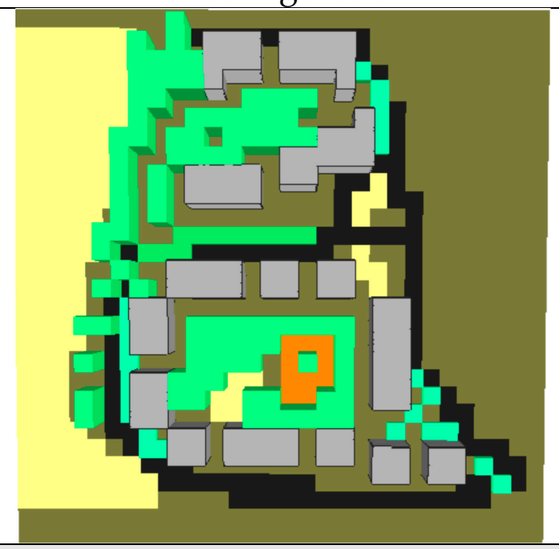
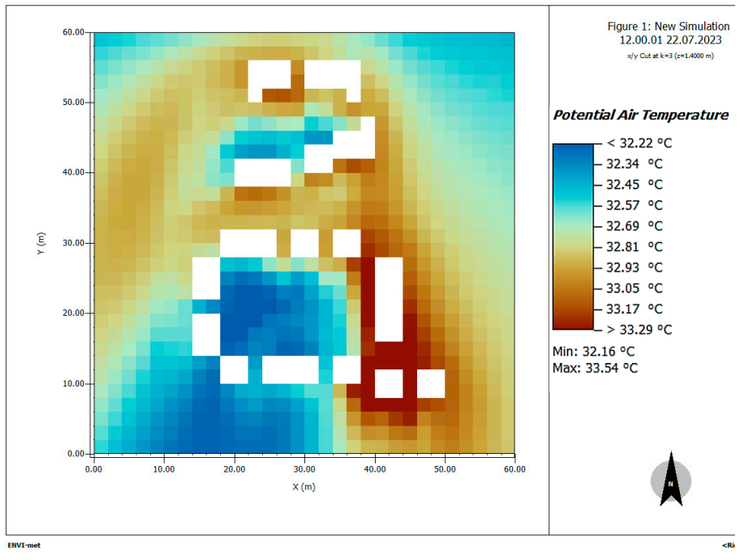
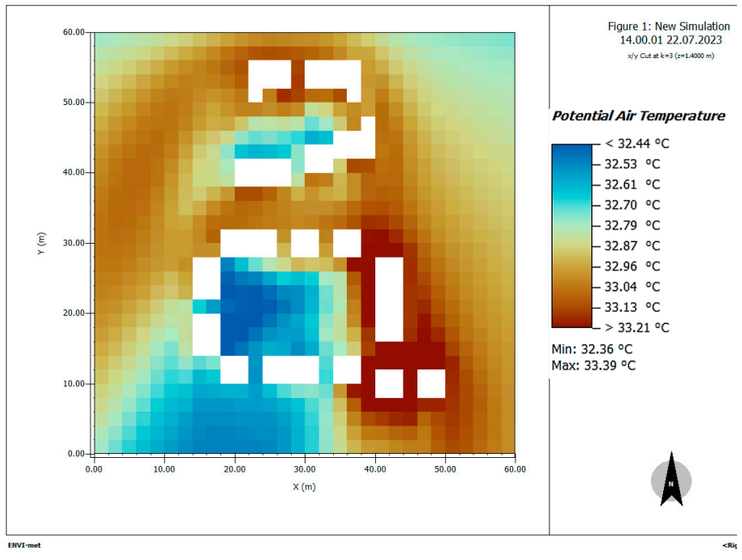
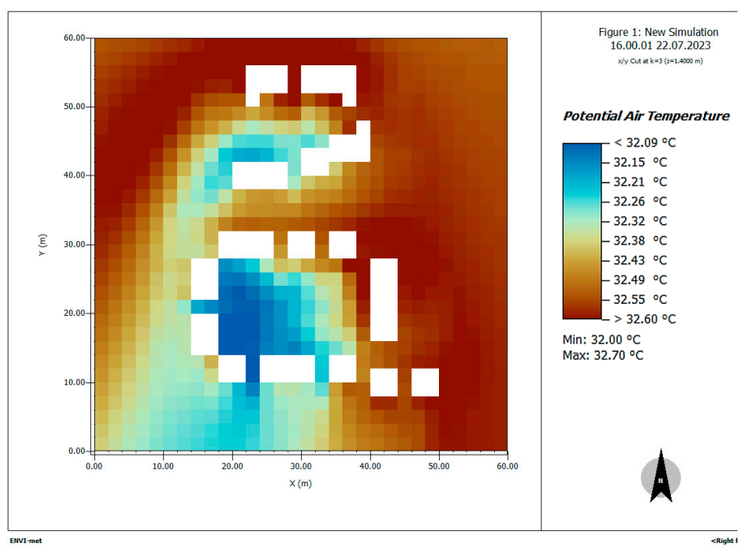
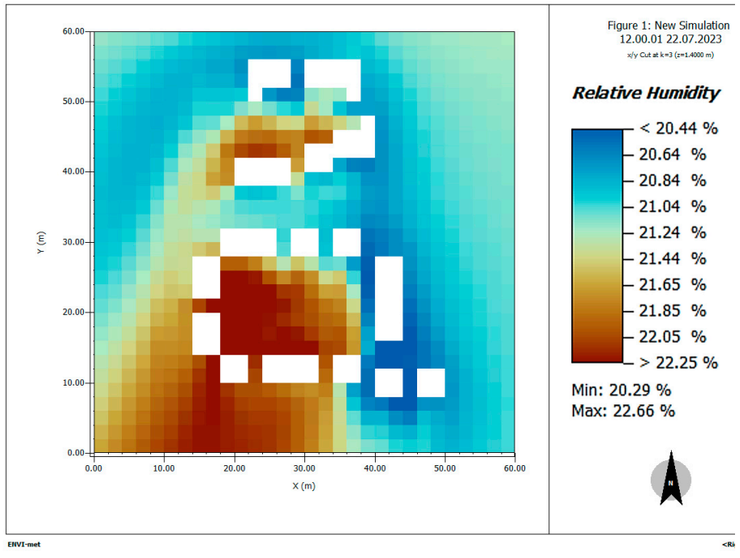
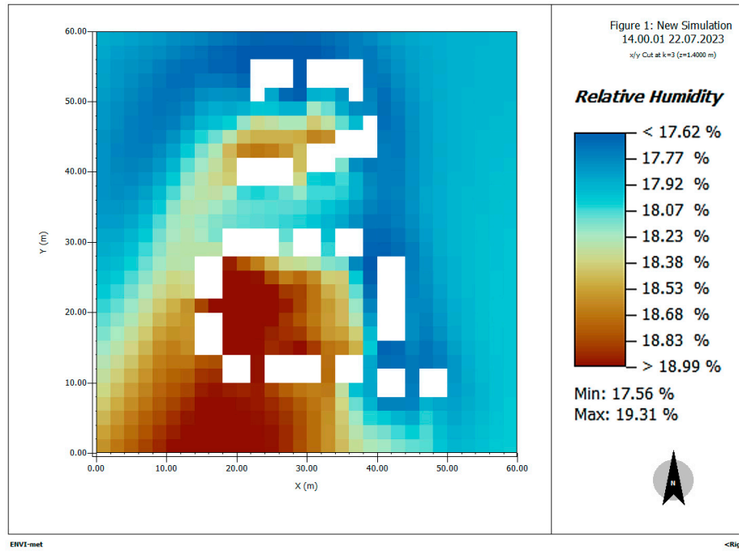
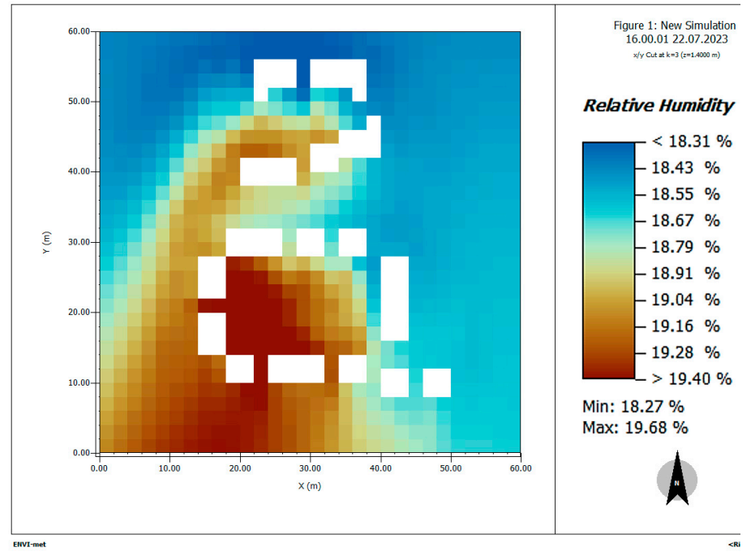
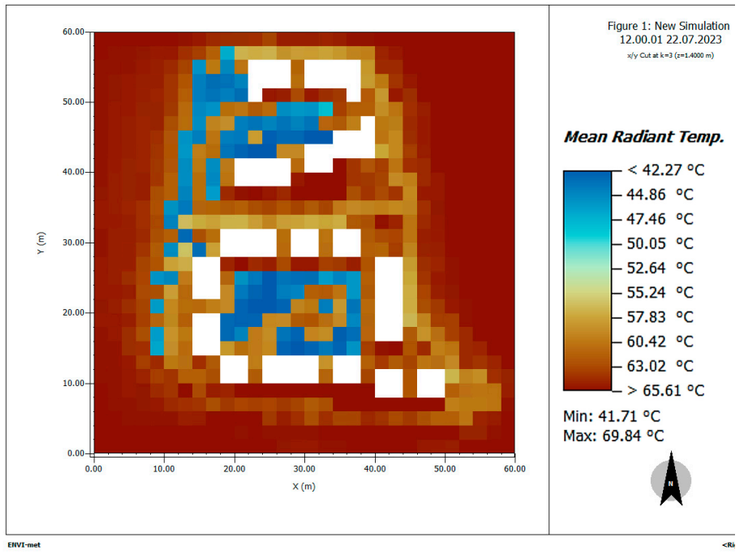
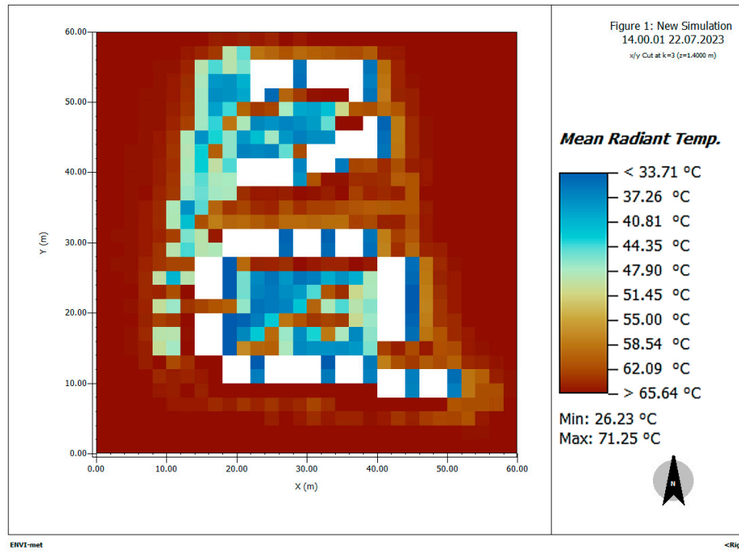
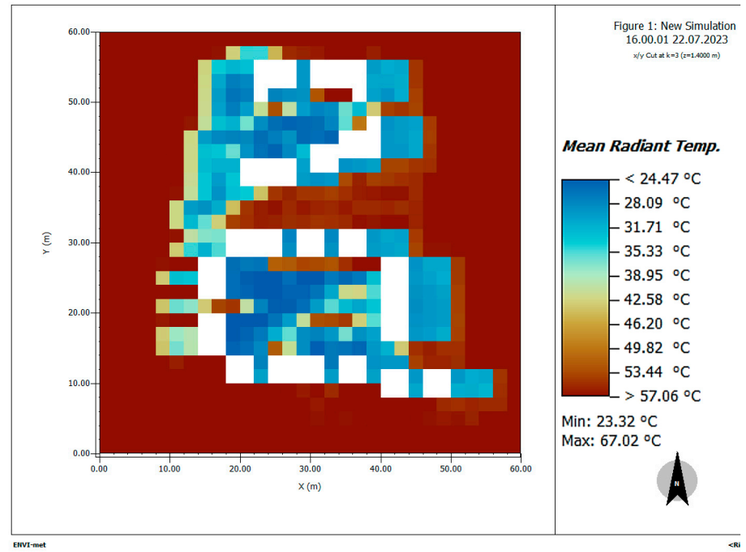
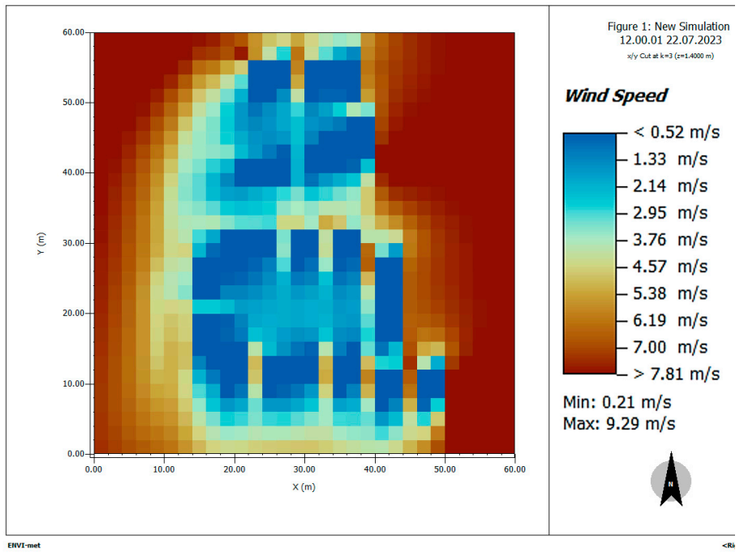
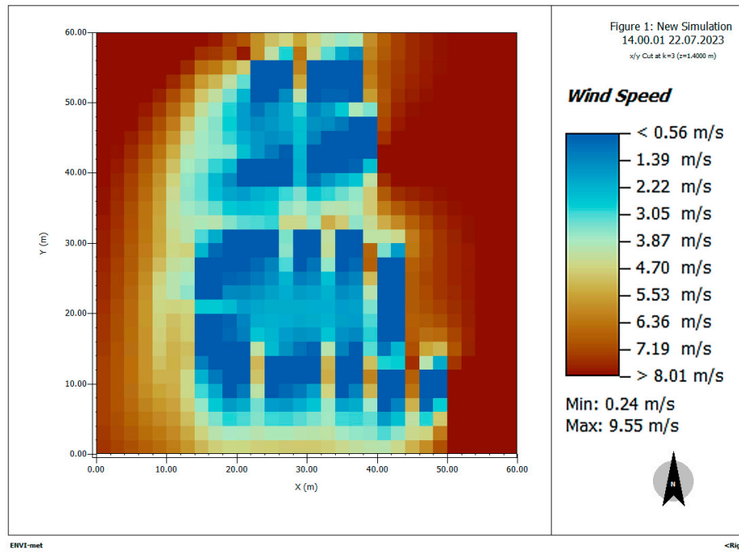
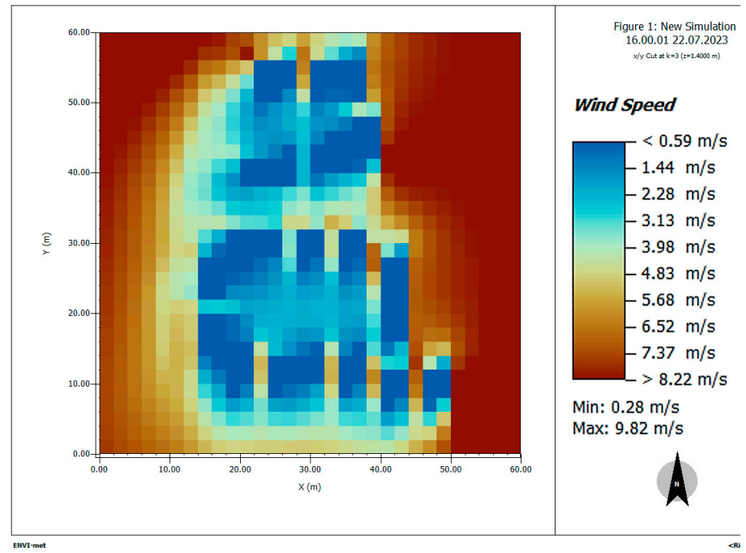
Table S1. Investigating the microclimate components in fabric case one.

Spatial distribution		
2d configuration		3d configuration
		
Temperature		
12 PM	2 PM	4 PM
		
Min: 32.16°C - Max: 33.24°C	Min: 32.36°C - Max: 33.39°C	Min: 32.00°C - Max: 33.70°C
Relative humidity		
12 PM	2 PM	4 PM

		
Min: 20.29% - Max: 22.66%	Min: 17.56% - Max: 19.31%	Min: 18.27% - Max: 19.68%
Mean radiant temperature		
12 PM	2 PM	4 PM
		
Min: 41.71°C - Max: 69.84°C	Min: 26.23°C - Max: 71.25°C	Min: 23.32°C - Max: 67.02°C
wind speed		
12 PM	2 PM	4 PM

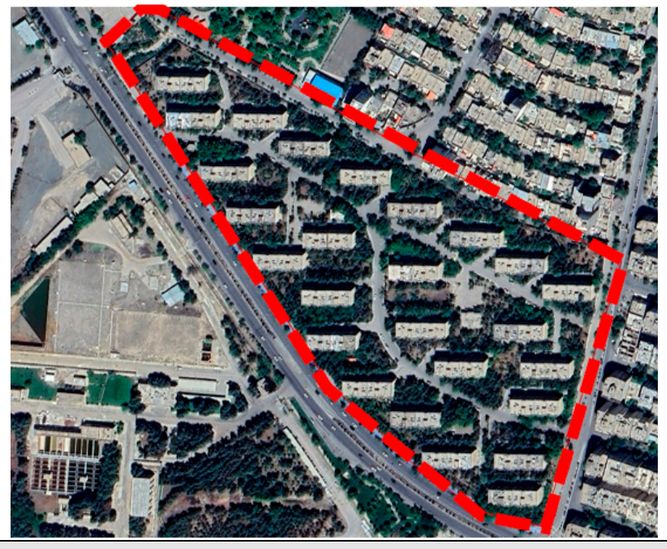
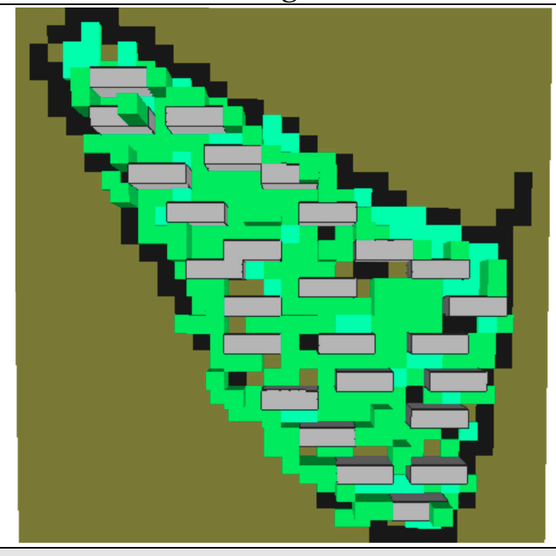


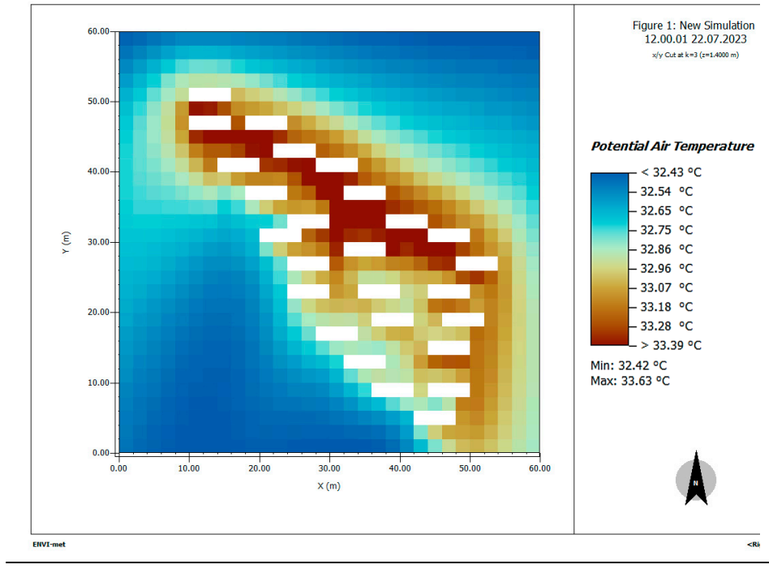


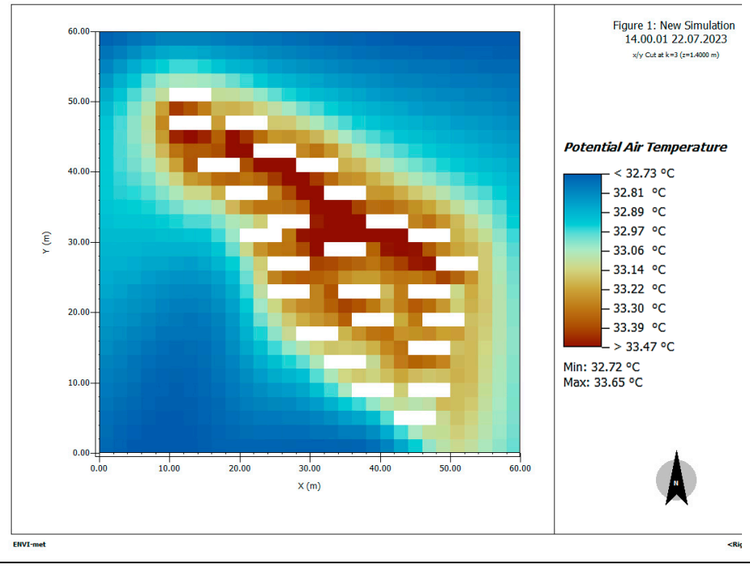


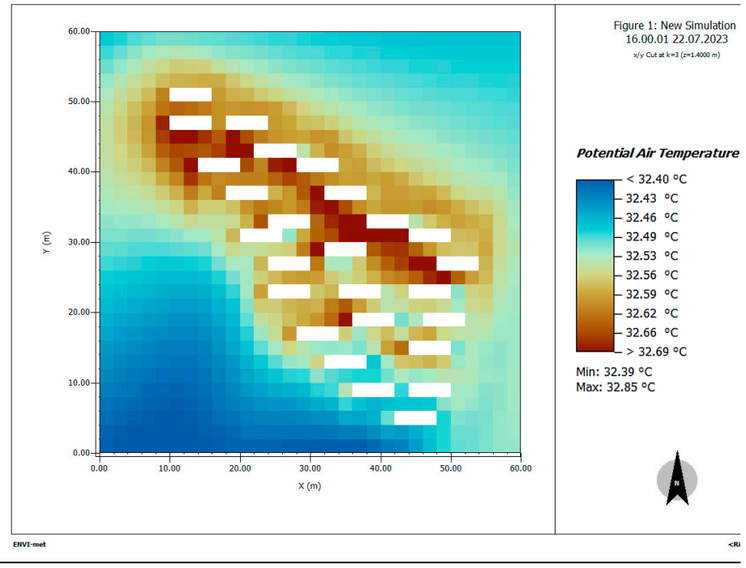
Min: 0.21m/s - Max: 9.29 m/s	Min: 0.24m/s - Max: 9.55 m/s	Min: 0.28m/s - Max: 9.82m/s

Table S2. Investigating microclimate components in fabric case two.

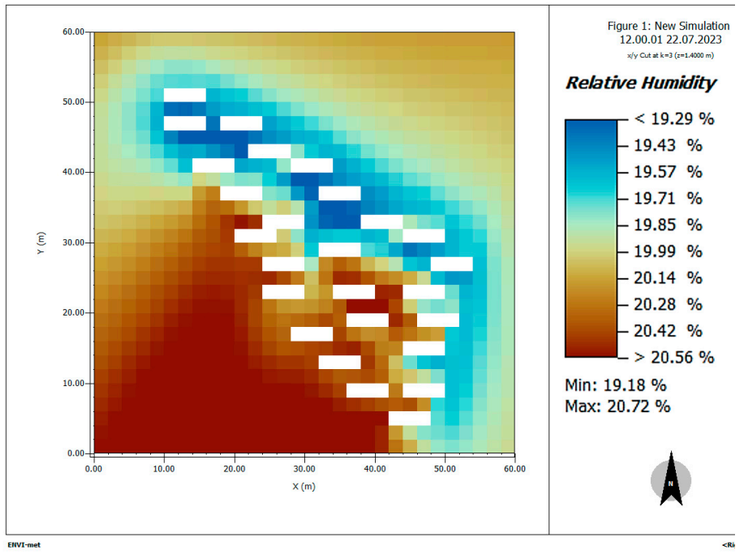
Spatial distribution		
2d configuration		3d configuration
		
Temperature		
12 PM	2 PM	4 PM

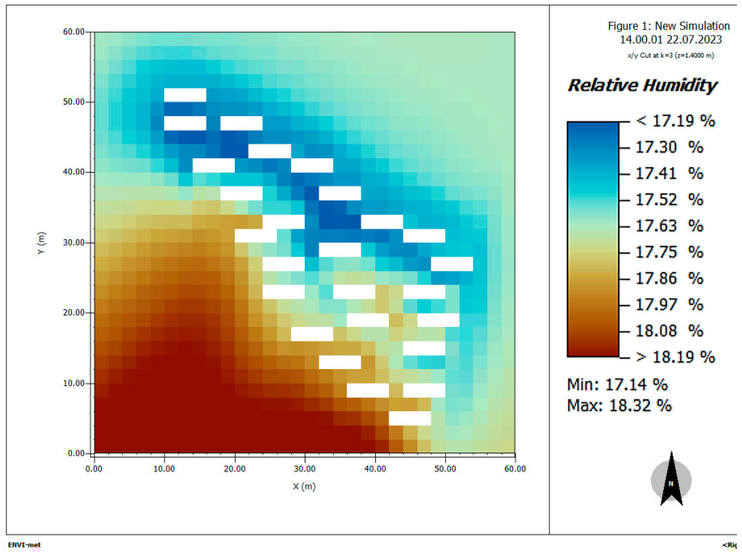


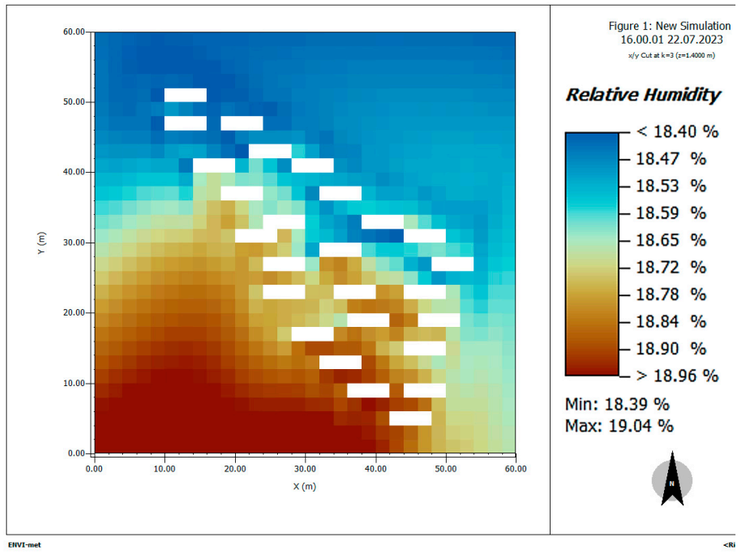




Min: 32.42°C - Max: 33.63°C	Min: 32.72°C - Max: 33.65°C	Min: 32.39°C - Max: 32.85°C
Relative humidity		
12 PM	2 PM	4 PM







Min: 19.18% - Max: 20.72%	Min: 17.14% - Max: 18.32%	Min: 18.39% - Max: 19.04%
Mean radiant temperature		
12 PM	2 PM	4 PM

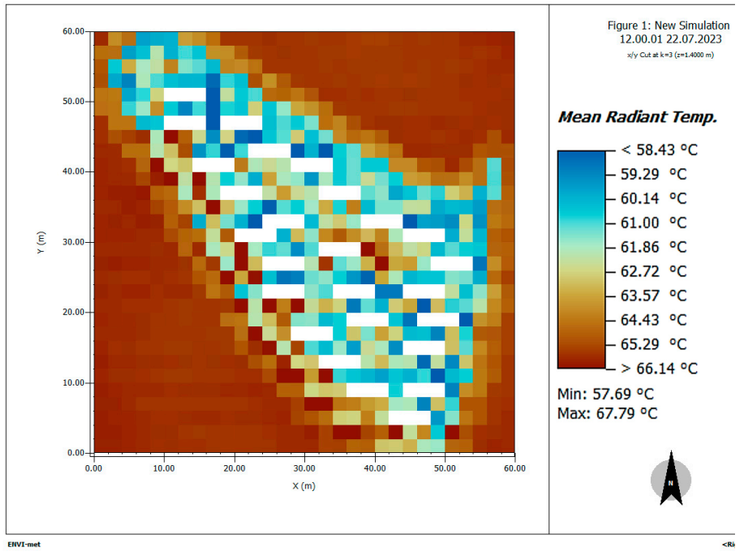
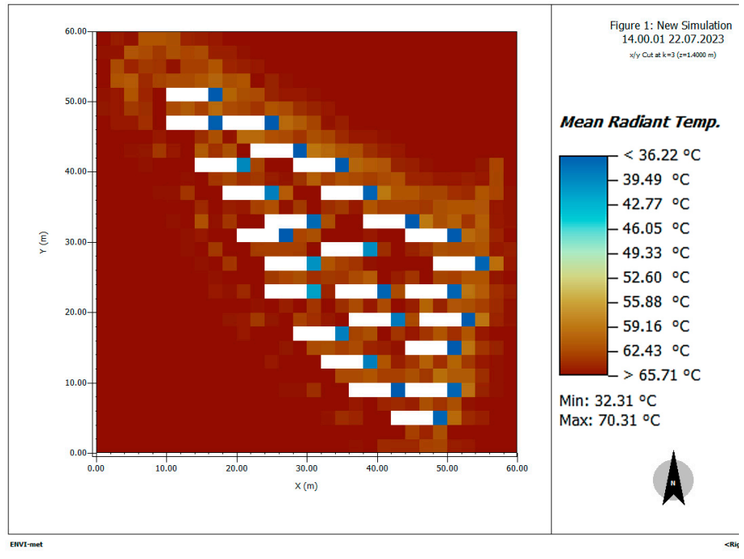
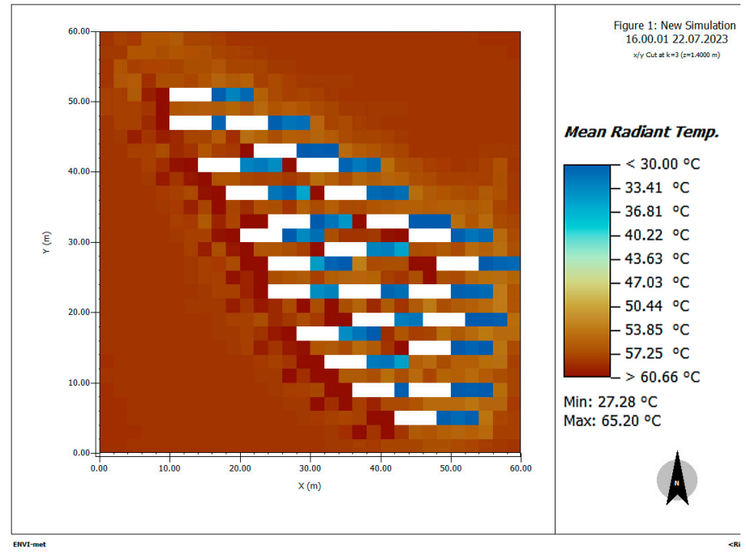
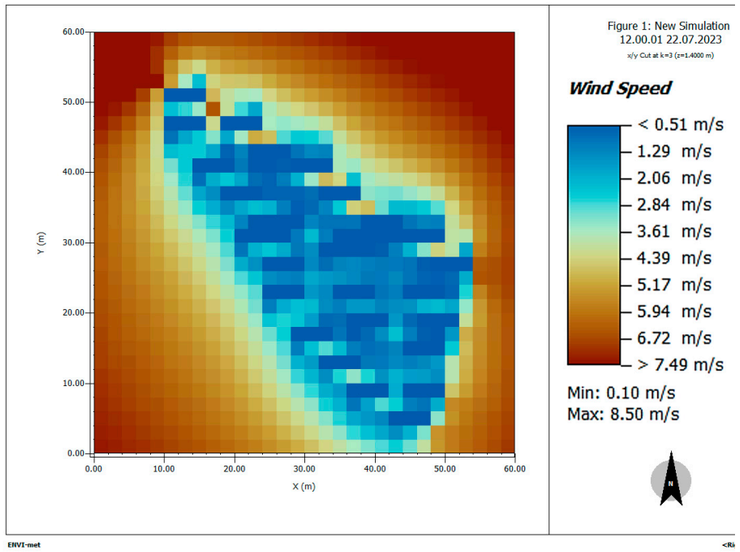
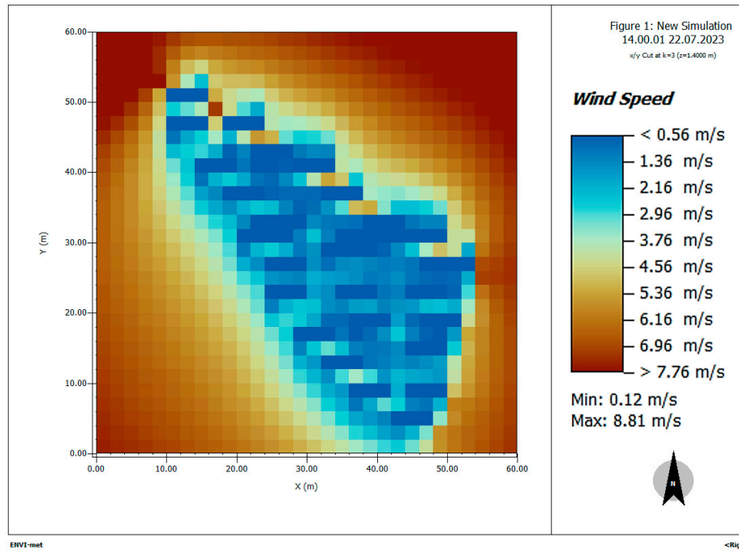
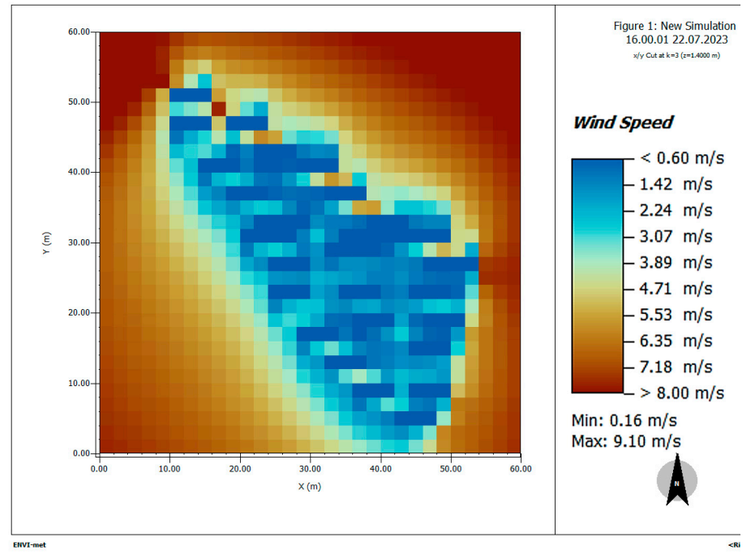
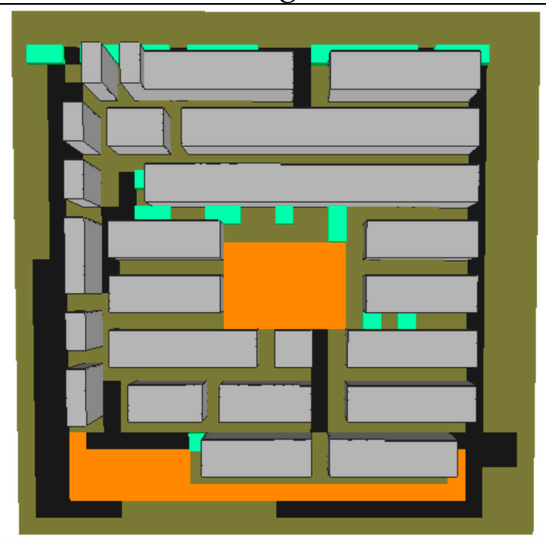
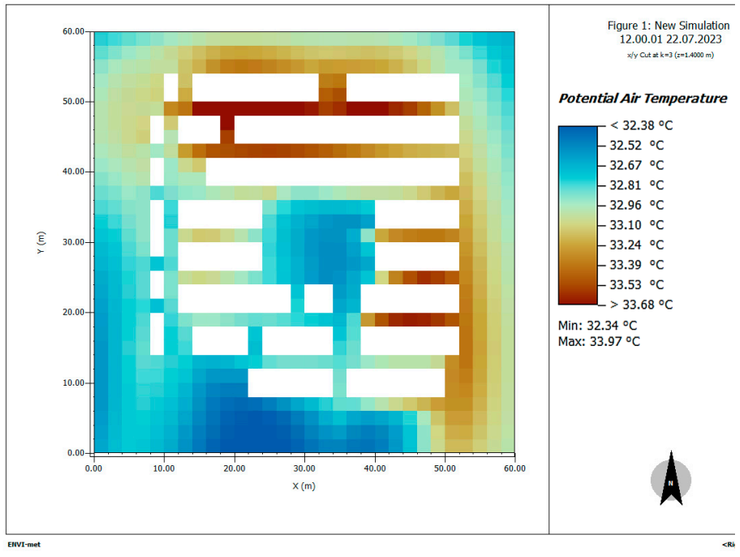
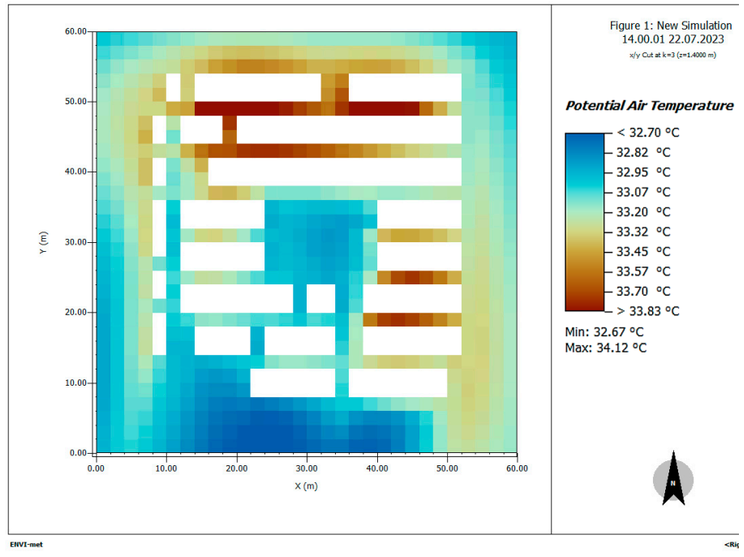
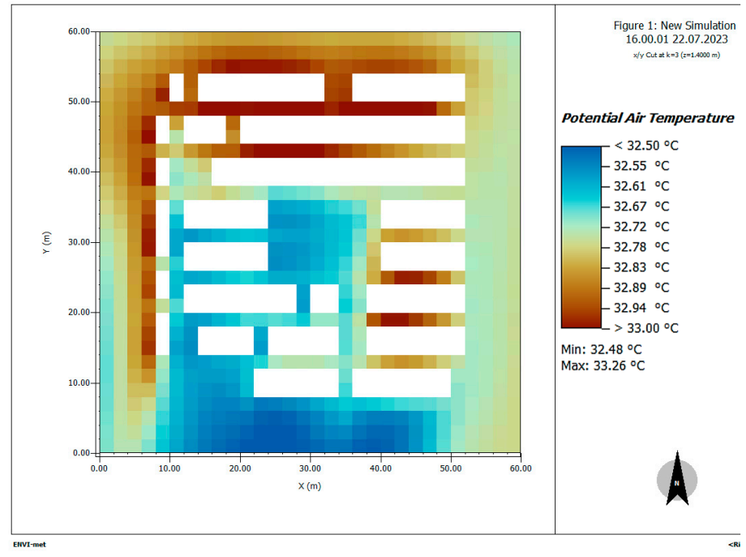
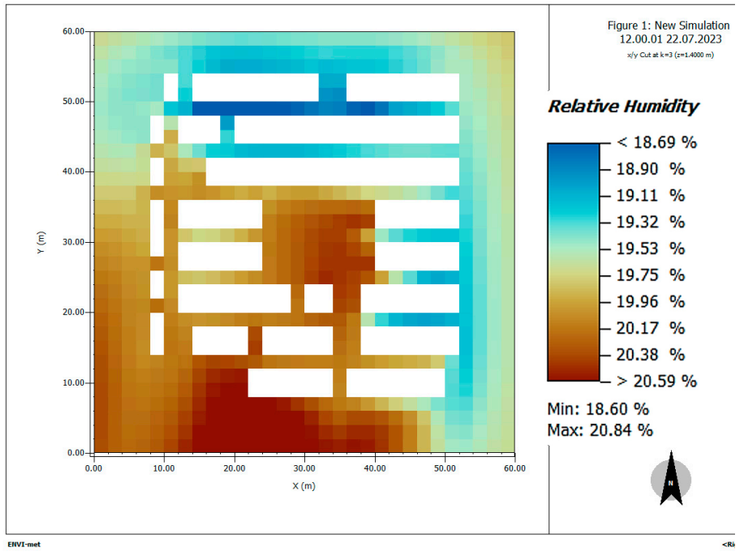
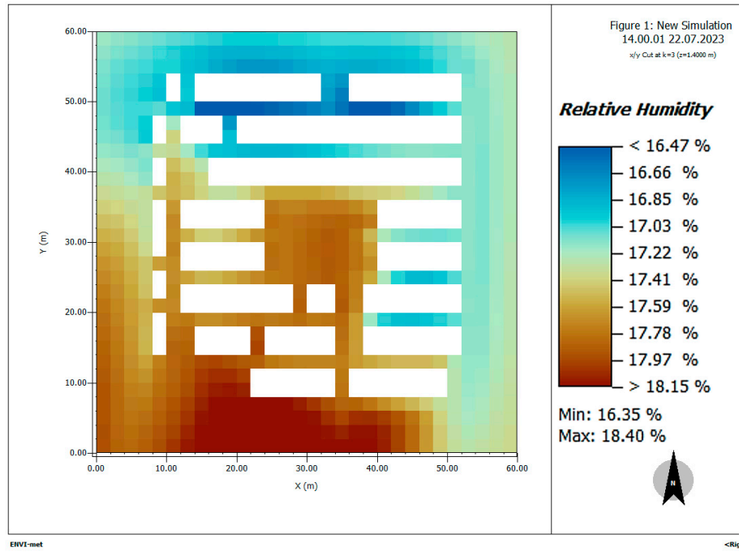
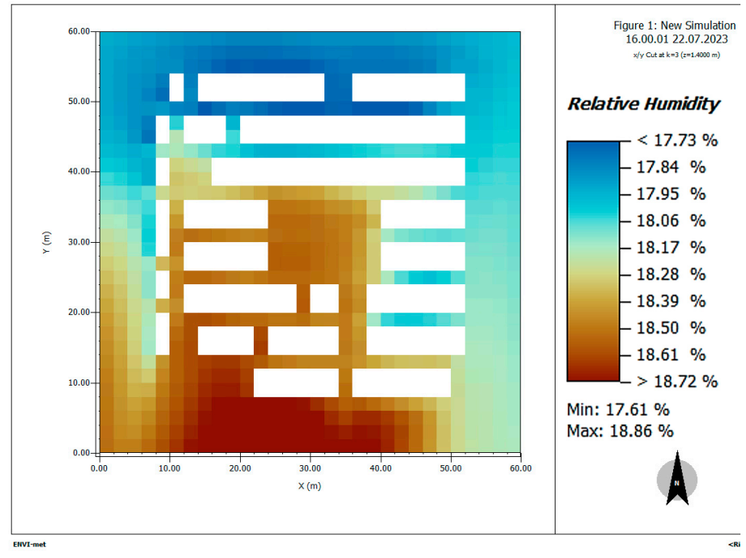
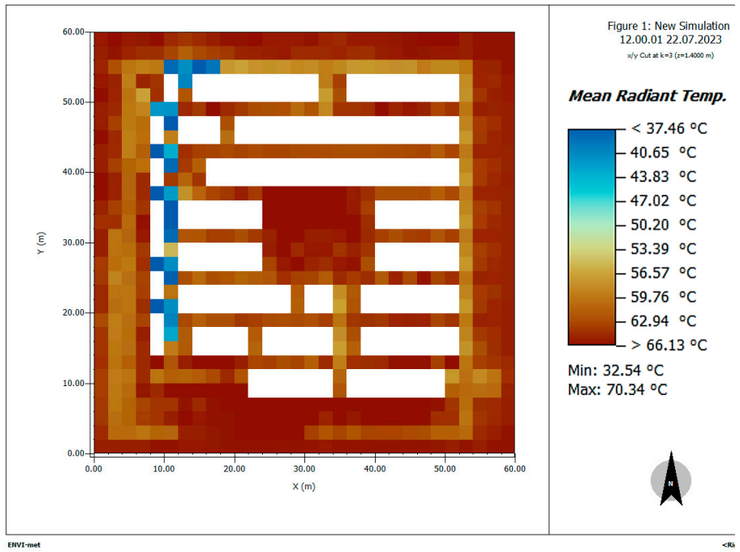
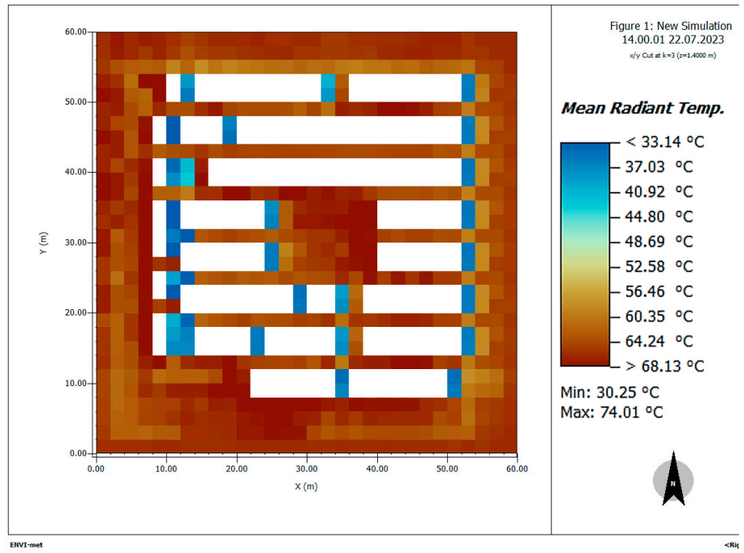
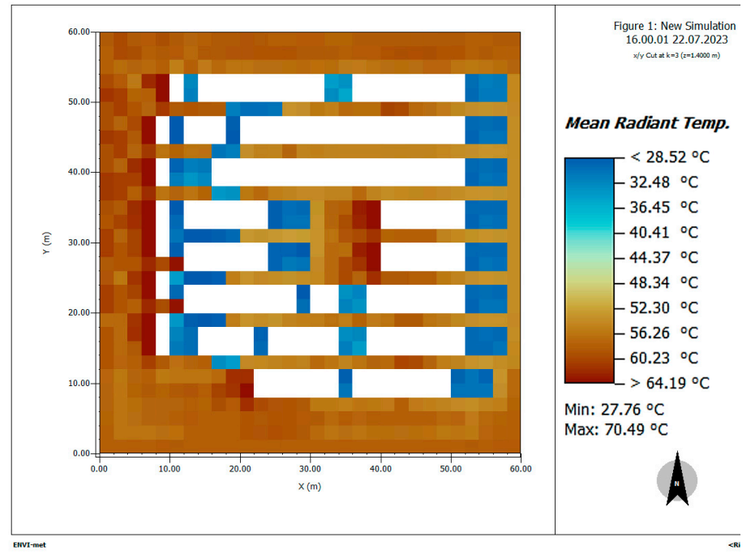
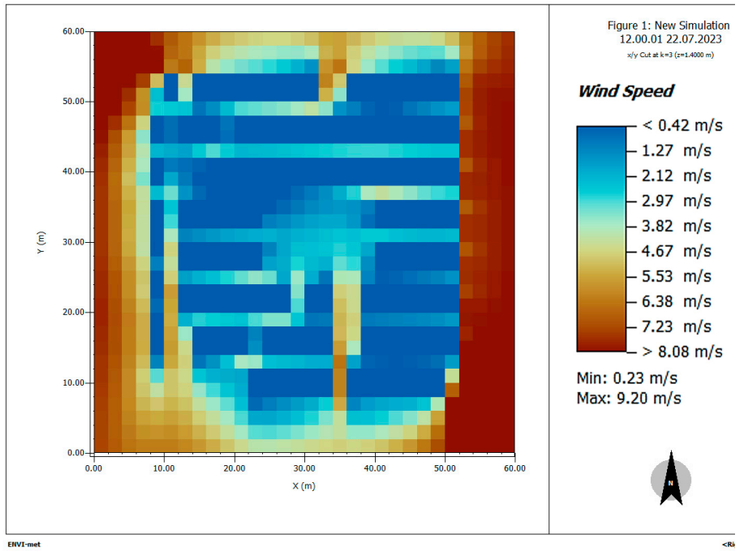
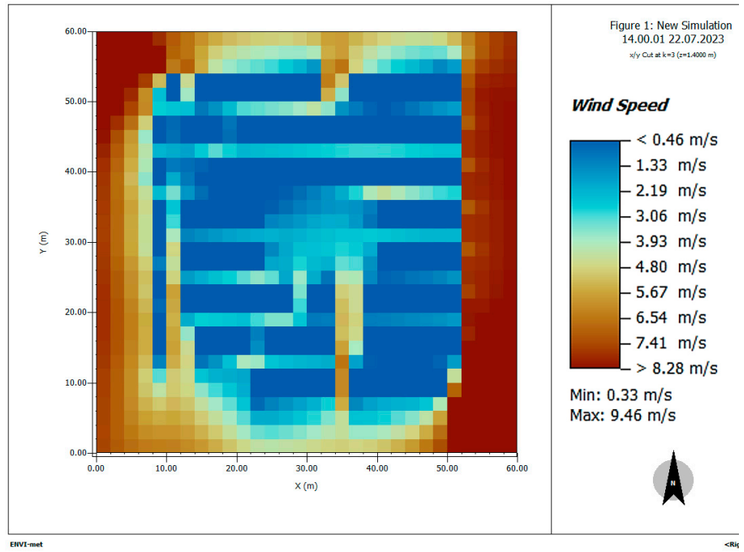
		
Min: 57.69°C - Max: 67.79°C	Min: 32.31°C - Max: 70.31°C	Min: 27.28°C - Max: 65.20°C
wind speed		
12 PM	2 PM	4 PM
		
Min: 0.10m/s - Max: 8.50 m/s	Min: 0.24m/s - Max: 9.55 m/s	Min: 0.16m/s - Max: 9.10m/s

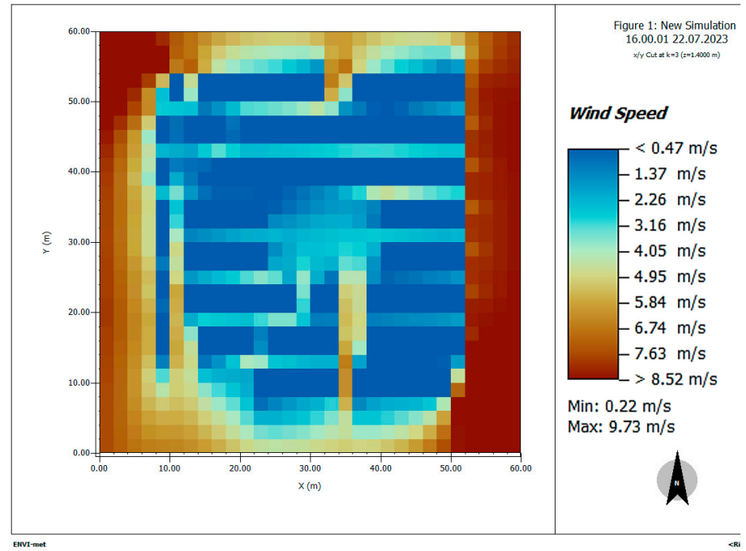
Table S3. Investigating microclimate components in fabric case three

Spatial distribution		
2d configuration		3d configuration
		
Temperature		
12 PM	2 PM	4 PM
		
Min: 32.34°C - Max: 33.97°C	Min: 32.67°C - Max: 34.12°C	Min: 32.48°C - Max: 33.26°C
Relative humidity		
12 PM	2 PM	4 PM

		
Min: 18.60% - Max: 20.84%	Min: 16.35% - Max: 18.40%	Min: 17.61% - Max: 18.86%
Mean radiant temperature		
12 PM	2 PM	4 PM
		
Min: 32.54°C - Max: 70.34°C	Min: 32.25°C - Max: 74.1°C	Min: 27.76°C - Max: 70.49°C
wind speed		
12 PM	2 PM	4 PM







Min: 0.23m/s - Max: 9.20 m/s	Min: 0.33m/s - Max: 9.46 m/s	Min: 0.22m/s - Max: 9.73m/s