

Ergonomics of the thermal environment

Subj.: Mobair 2030

Author of measurement:

YIT Kiinteistötekniikka Oy

Instruments used for measurement:

Swema 300, low air velocity sensor SWA-03

Outside environment at the time of measurement:

Air pressure	Temperature	Wind
1013 mmh2o		
Date:		
Time:		

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Draught rate (DR): is the percentage of people predicted to be bothered by draught.

$$DR = (34 - t_a) \times (v - 0.05)^{0.62} \times (0.37 \times v \times T_u + 3.14)$$

Where:

t_a = the local temperature (°C)

v = the average local air flow rate (m/s)

T_u = the local strength of the turbulence (%)

Probe cal. Protocol

Software ver.: 3.01

Manufact. Date: 0000-00-00

Cal. date: 0000-00-00

Type: 0

Required Software version: 0.00

cal. setup:

Model:

Required Hardware version: 0.00

S/N:

No 1

SWA 03 S/N: 361739

Mode CO, Equaliz. 1 s
Average 0.043 m/s
Max 0.289 m/s
Min -0.008 m/s
Avg. temperature 21.5 °C
Measuring time 10 min
Average deviation 0.028 m/s
Risk of draught 0.0 %

No 4

SWA 03 S/N: 361739

Mode CO, Equaliz. 1 s
Average 0.012 m/s
Max 0.164 m/s
Min -0.008 m/s
Avg. temperature 20.0 °C
Measuring time 10 min
Average deviation 0.012 m/s
Risk of draught 0.0 %

No 2

SWA 03 S/N: 361739

Mode CO, Equaliz. 8 s
Average 0.023 m/s
Max 0.286 m/s
Min -0.009 m/s
Avg. temperature 20.0 °C
Measuring time 10 min
Average deviation 0.025 m/s
Risk of draught 0.0 %

No 5

SWA 03 S/N: 361739

Mode CO, Equaliz. 1 s
Average 0.025 m/s
Max 0.419 m/s
Min -0.006 m/s
Avg. temperature 19.6 °C
Measuring time 10 min
Average deviation 0.041 m/s
Risk of draught 0.0 %

No 3

SWA 03 S/N: 361739

Mode CO, Equaliz. 8 s
Average 0.009 m/s
Max 0.121 m/s
Min -0.009 m/s
Avg. temperature 20.1 °C
Measuring time 10 min
Average deviation 0.011 m/s
Risk of draught 0.0 %

No 6

SWA 03 S/N: 361739

Mode CO, Equaliz. 1 s
Average 0.026 m/s
Max 0.166 m/s
Min -0.002 m/s
Avg. temperature 17.4 °C
Measuring time 10 min
Average deviation 0.015 m/s
Risk of draught 0.0 %

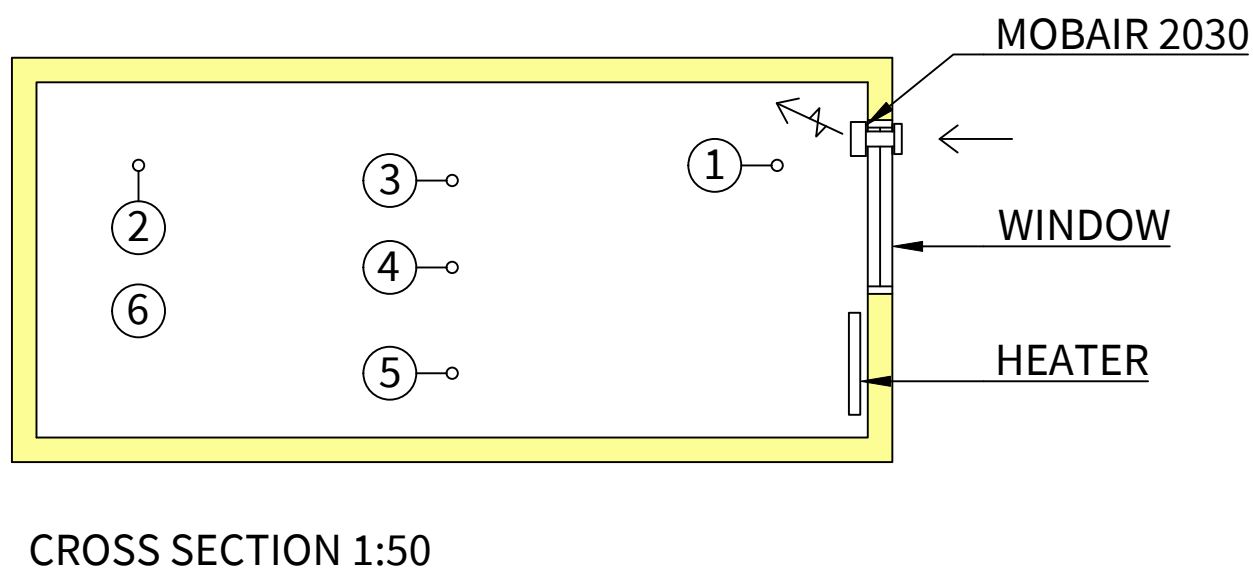
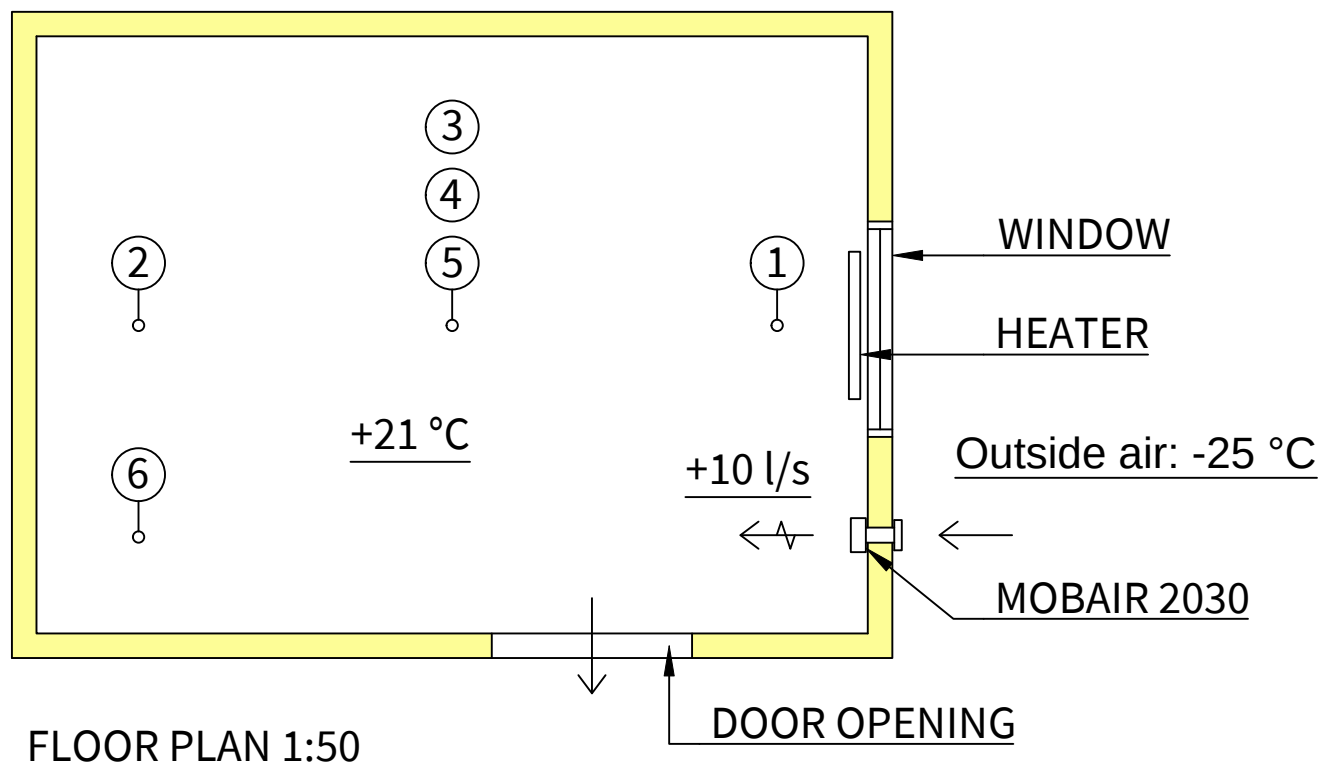
Place:

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Date:

10.02.2012

①...⑥ = POINT OF MEASUREMENT



ATTACHMENT A
MOBAIR 2030
MEASUREMENT OF DRAUGHT
10.02.2012