











Figure 7. Air velocity profile in the ventilated channel

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## NOMENCLATURE

b	Channel width, m
h	Hipped roof height, m
L	Channel length, m
$L_x, L_y$	Inlet reservoir dimensions, m
h	Height of the ridge, m
$q_s$	Heat flux in summer, W/m <sup>2</sup>
$q_w$	Heat flux in winter, W/m <sup>2</sup>
T	Operative temperature, K
$T_s$	Temperature in summer regime, K
$T_w$	Temperature in winter regime, K
$\theta$	Roof inclination, °
k	Kinetic energy of turbulence
$\epsilon$	Turbulent kinetic energy dissipation