

VON KARMAN INSTITUTE
FOR FLUID DYNAMICS

VKI L-1 WIND TUNNEL LABORATORY

*"Solve your wind load
problems with the expertise of
the VON KARMAN INSTITUTE"*

<http://www.vki.ac.be>

L-1



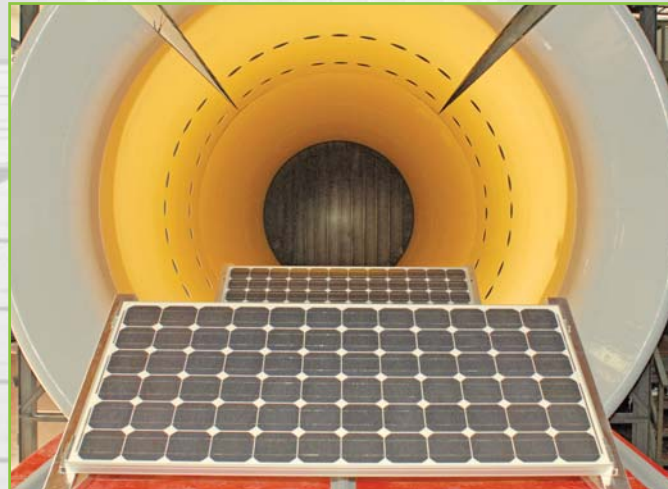
Microclimate studies

VON KARMAN INSTITUTE FOR FLUID DYNAMICS

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Solar panel testing

VKI Wind Tunnel Laboratory

L-1



Sailing boat



Wind resistance test on lantern



Urban wind turbine

The VKI L-1 Wind Tunnel Laboratory has a 3m diameter free jet test section, with wind speeds up to 220 km/h. A special test section is dedicated to the simulation of the urban and suburban atmospheric boundary layer at different scales.

The wind tunnel is equipped with instrumentation for measurement of forces, moments, flow field, pollution and acoustics.

We have the capability to test full-scale industrial devices concerned by wind loading, i.e.:

- Solar protections of windows
- Solar panels
- Parasols
- Road and highway lights
- Urban wind turbines
- Advertising board
- Road vehicles
- Sailing boats
- etc



Tests on racing cyclist



Road vehicle models: solar car



Polar Station Princess Elisabeth with pressure taps for wind loading assessment



Airborne insect trapping device