



## NB-BE-01

### Port of Ghent office

**GreenBuilding Partner**  
**Building type**  
**Location**  
**Year/period of construction**  
**Year/period of refurbishment**  
**Building area**  
**Points quantitative criteria**

**Port of Ghent**  
**office building**  
**Ghent, Belgium**  
**2006**  
**-**  
**1800 m<sup>2</sup> (net floor area)**  
**74% of maximal score\***



<b>Energy indices</b>	92 kWh primary/m <sup>2</sup> a, E34
<b>Energy savings and basis of calculation</b>	The primary energy demand is 67 % lower than the Belgian (Flemish) building code (i.e. E100)
<b>Building envelope</b>	<p>First Belgian office with passive house certificate, thus:</p> <ul style="list-style-type: none"> <li>- U-value: 0,28 W/m<sup>2</sup>K (very good insulation of the building envelope e.g. wall insulation of 25-30 cm and roof insulation &gt; 30 cm)</li> <li>- very airtight building envelope</li> </ul> <p>Via mobile external sunshading, ground tube and night cooling combined with high thermal mass a good summer comfort can be realised without active cooling.</p>
<b>Building services - HVAC</b>	<p>Mechanical ventilation with heat recovery</p> <p>Condensation boiler for pre-heating air, no radiators (passive house)</p>

c2

eg. heating demand/m<sup>2</sup>, final energy demand/m<sup>2</sup>, primary energy demand/m<sup>2</sup>, final energy consumption/m<sup>2</sup>  
Please indicate which energy indices you use - see example.

csp; 07.01.2010



<b>Renewable energy</b>	Ground tube c3
<b>Other measures</b>	Use of daylight, shading and regulation of lighting Energy efficient lighting
<b>Energy management</b>	Monthly monitoring of energy consumption
<b>Replication and innovation</b>	<ul style="list-style-type: none"> <li>- Innovative: first 'passive' office in Belgium. Nominated for Belgian architecture and energy price for non-residential Buildings (2007)</li> <li>- Highly replicable cost-effective passive house building concept</li> </ul>

c3

Please indicate which energy index you use and delete the use you do not use.

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