



Project information

Project type:	New eco-light building
Address:	Tornfalksgatan 28, 29, 30, 31, 32, 34
End construction year:	2008
Building type:	Multi family dwellings
Dwellings:	130
Storeys:	6
Persons in building:	346
Gross area BTA:	11842 m ²
Net area:	8652 m ²
Heated area:	10914 m ²
Window/door area:	1646 m ²
Total eligible costs:	38.7 €/m ²
Total costs:	1477 €/m ²

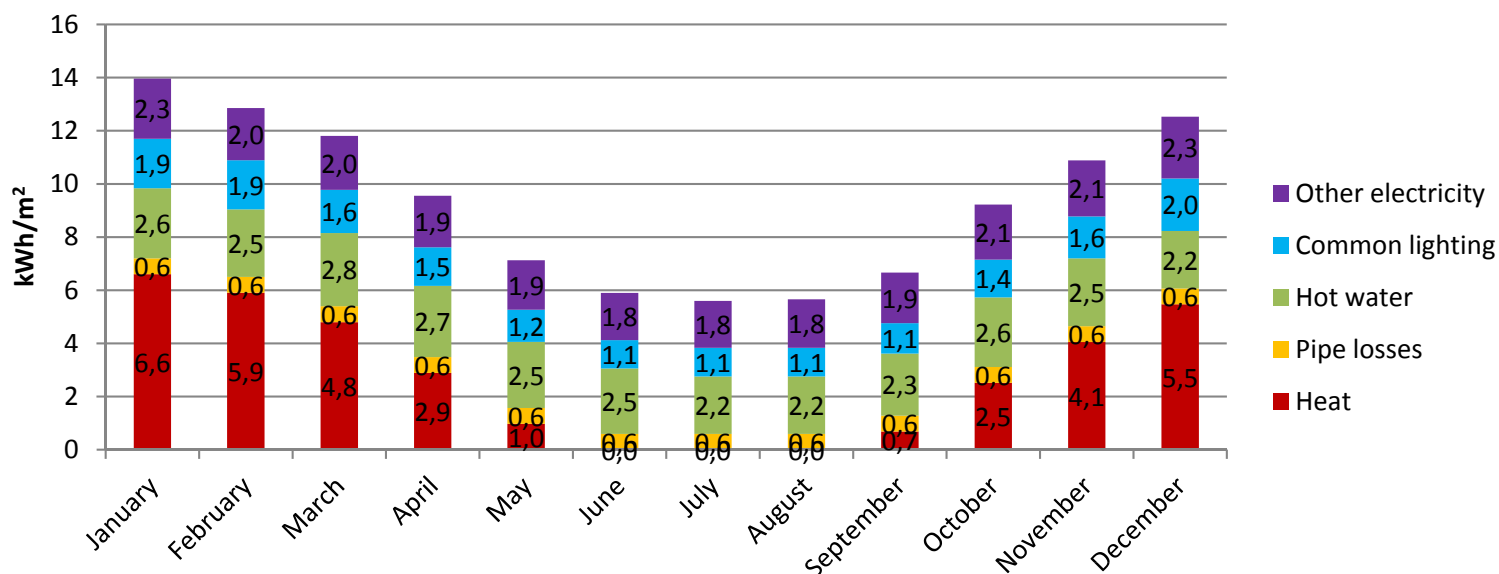
Special ECO-technologies applied:

- Optimisation of window type,
- Thermal bridges avoided,
- Increased insulation,
- Ventilation with heat recovery,
- Pipe/valve insulation on heating,
- DHW pipes + boiler room,
- Water savings fixtures,
- Demand controlled circulation,
- Individual metering



Energy consumption

Energy consumption 2012 - Degree day corrected

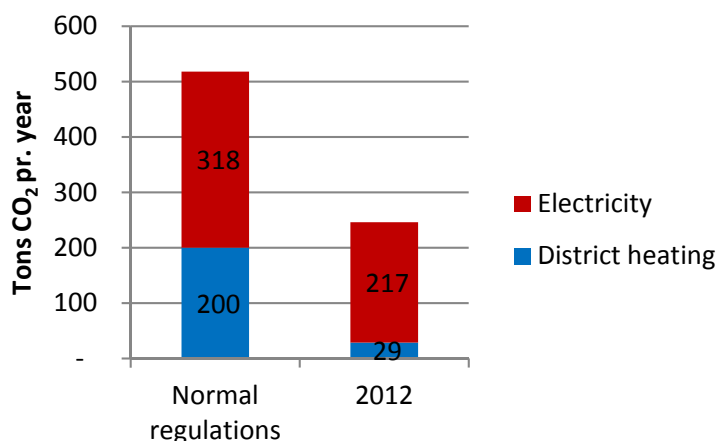


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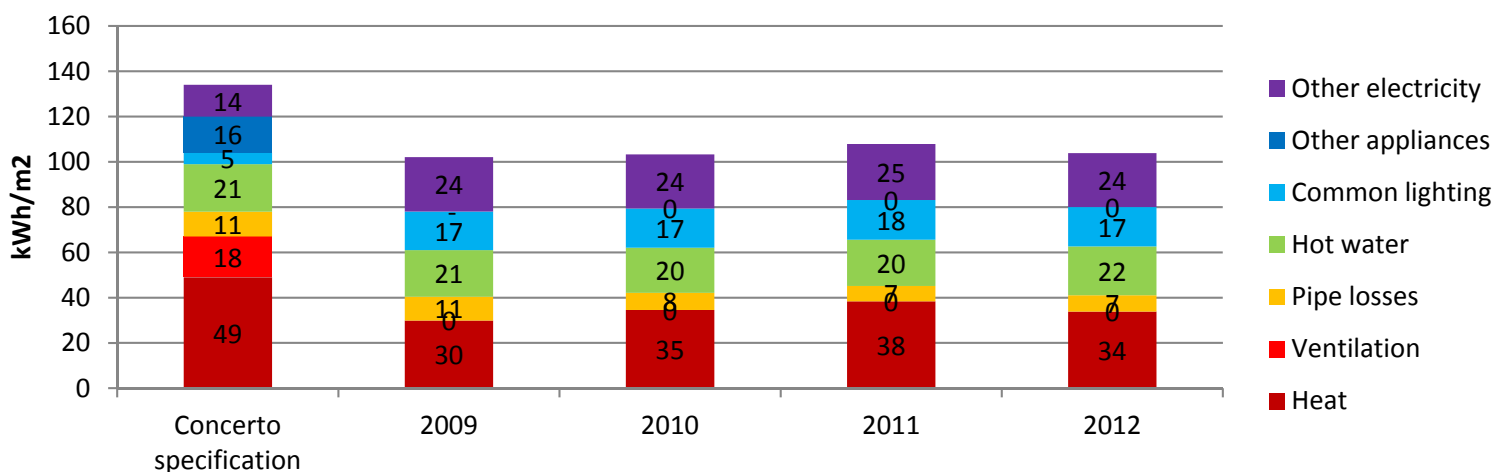
Lessons learned:

- The demand of a blower door tests makes simple structures tight as craftsmen show more care and know they get controlled
- No need to protect membranes by special embedment behind an extra layer of insulation.

CO₂ emission



Energy - specifications and consumption



Key figures

Heat trans.	Unit	Normal practice	Concerto spec.	Actual	Energy consumption	Unit	Normal practice	Concerto spec.	Actual 2011	Actual 2012
Outerwall	W/m ² K	0.4	0.25	0.244	Heat	kWh/m ²	96	67	38	34
Roof	W/m ² K	0.25	0.2	0.09	Pipe losses	kWh/m ²	24	11	7	7
Floor	W/m ² K	0.3	0.25	0.25-0.16	Ventilation	kWh/m ²	-	-	-	-
Windows	W/m ² K	N.A.	1.1	1.3	Hot water	kWh/m ²	27	21	20	22
Glazing	W/m ² K	1.8	<1.1	1.0	Total heat	kWh/m²	147	99	66	63
Doors	W/m ² K	-	-	1.0	Lighting	kWh/m ²	50	35	18	17
Vent. rate	h ⁻¹	-	0.5	0.52	Other	kWh/m ²	-	-	-	-
					Total elec.	kWh/m²	50	35	25	24
					Solar heat	kWh/m ²	0	0	0	0
					Total	kWh/m²	197	134	108	104

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