



# CASE STUDY

TURKU, Finland

# TURKU ◦ FINLAND

**PROJECT:** Turku Curling Arena

**BUILT:** 2017

**SHEETS:** 2

This project was part of the World Curling Federation's Portable Curling Facility Programme. The curling club in Turku is renting to own the facility from the World Curling Federation. Once all payments are made, the club will become the owner.

In order to be considered portable, an ice mat, chiller with full heat recovery in a container, and a PVC-building were chosen. The ice mat was purchased from AST, Austria, the chiller from FRIGADON, Sweden and a PVC-building from RUBB, Sweden.

**RUNNING COSTS:** The season in Turku runs from September to May. During this time, electricity consumption is approximately 15,000kWh per month (chiller, pumps, lights, warm area etc.). Another €EUR 20,000 (\$USD 22,200) per year is required to cover additional costs.

**NOTE:** All costs shown do not include VAT or local taxes.

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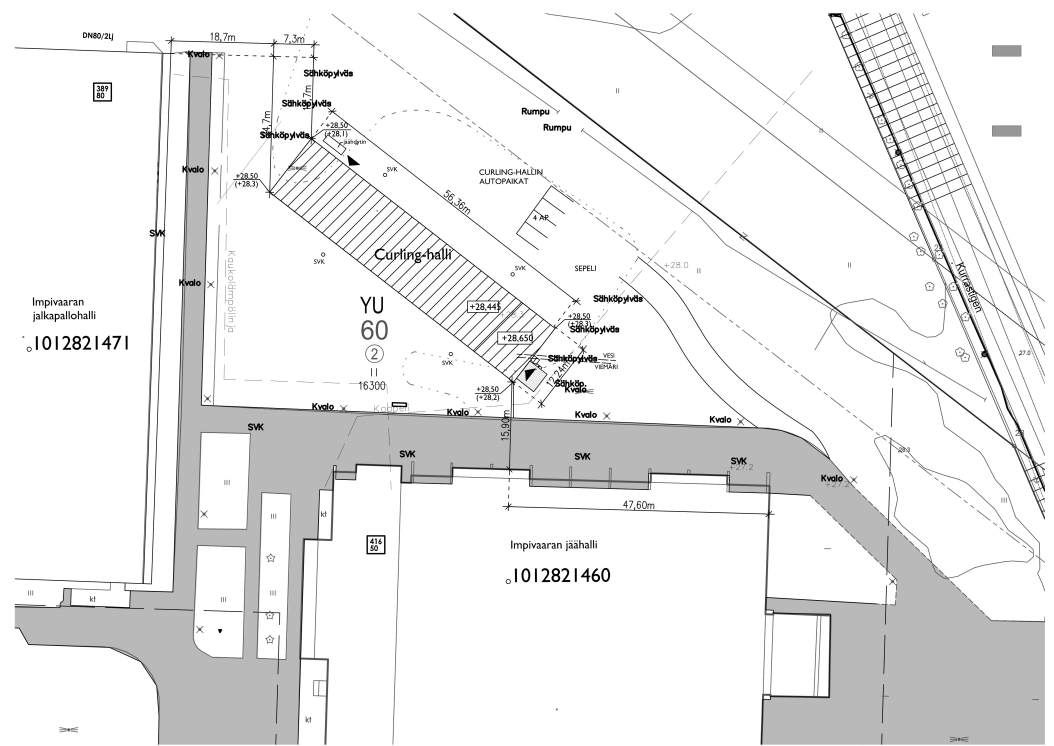
NOTE: All costs shown do not include VAT or local taxes.  
Costs reflected are as of 15 March 2017 including rates of exchange.

	Cost €EUR	Cost \$USD
Design	54,233	57,666
Site Setup	24,662	26,223
Project Management	53,785	57,190
Municipal Connection Fees	39,412	41,907
Excavation and Foundation	56,914	60,517
Prefabricated Building	153,330	163,036
Service Areas	21,932	23,320
Ice Floor Base	9,867	10,492
Walkways	7,588	8,068
Ice Floor Insulation	14,600	15,524
Fans and Ventilation	27,667	29,418
Dehumidification	16,571	17,620
Plumbing	6,832	7,264
Electrical	39,398	41,892
Lighting	10,818	11,503
Automation	11,239	11,950
Compressors with Heat Recovery	45,000	47,849
Ice Mat including Glycol	38,820	41,277
Contractor	15,200	16,162
<b>TOTAL</b>	<b>647,868</b>	<b>688,878</b>
<b>Cost per Sheet</b>	<b>323,934</b>	<b>344,439</b>

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1:1000



1:500



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