



# CASE STUDY

ZEMST, Belgium

**PROJECT:** Curling Club Zemst

**BUILT:** 2017

**SHEETS:** 3

**TYPE OF BUILDING:** Steel framework, metal sheet wall and roof

**FOUNDATION AND ICE FLOOR:** Concrete

**CHILLER:** Sabcobel W70-206. 2 compressors (130kW). Partial heat recovery.

**DEHUMIDIFIER:** Absorption type

**ICE SHED HEATING SYSTEM:** recovered heat from chiller plus air-air heat pump.

**RUNNING COSTS:** The estimated running costs for 2019 were €170,000. These costs include energy (15%), labour (50%), technical costs (12%), cafe (10%), loan repayment (7%), and other (6%).

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

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# ZEMST ◦ BELGIUM



	Cost €EUR	Cost \$USD
OVERHEAD: property survey, drawings, construction, electricity connections, etc.	35,000	37,216
BUILDING: panel type, foundation, concrete, etc.	251,000	266,888
ICE AREA: digging, base course, insulation, ice mat, glycol, etc.	150,000	159,495
SERVICE AREAS: locker rooms, café, toilets,	34,000	36,152
TECHNOLOGY: chiller, vent, dehumidification, heat pumps, heat exchange, light, electricity, etc.	221,000	234,989
<b>TOTAL</b>	<b>691,000</b>	<b>734,740</b>
<b>Cost per Sheet</b>	<b>230,333</b>	<b>244,913</b>



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

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