

07/2008 commencement on site: 10/2009 completion: 12 mil CHF building costs: $3'363.44 m^2\\$ volume: 29'163.05m3 6-10°C / 20-24°C curling / event use:

Waldhaus Arena Flims, Curling & Events
One of the most modern curling centres of Europe during wintertime, between April and December a multifunctional event location situated in the park of the 5-star Waldhaus Flims Mountain Resort & Spa in Flims Waldhaus, Switzerland.

Our aim was to deliver the highest possible technical standards for curling centres and creating an atmospheric place for large events at the same time.

The old curling centre from the 60s with its four rinks did not suffice today's demands and international standards for curlers. Since the neighbouring tennis hall did not get the desired use, was insufficient for events and had to be modernised in the near future the idea of combining curling and event use by converting the old tennis hall arose.

The substantial building volume divides into a large centre building (cladded with TECU Classic copper bands) and lengthwise connected aisles on both sides (cladded with the TECU Net plates). The entrance, finished in concrete with its canopy on filigree columns and the glass façade is oriented to the street.

Guests are welcomed in the bright and spacious foyer with dark coloured terrazzo flooring, exposed concrete walls and elegant lounge furniture. From here all levels of the building can easily be accessed. A wide single flight stairway along the glass façade leads to the lower floor with comfortable seminar rooms, changing and shower rooms as well as technical installation and storage rooms. On ground floor level accessed directly from the entrance hall a modest, elegant restaurant offers fantastic views to the ice surface on one of its sides and Flims and the Flimserstein mountain on the other. Hidden behind an exposed concrete wall and separated from the

restaurant a bar with pub atmosphere surprises. The curler pub is fully clad with dark painted Swiss Pine wood and features a bar and lamp finished in copper to reflect the façade of the building.

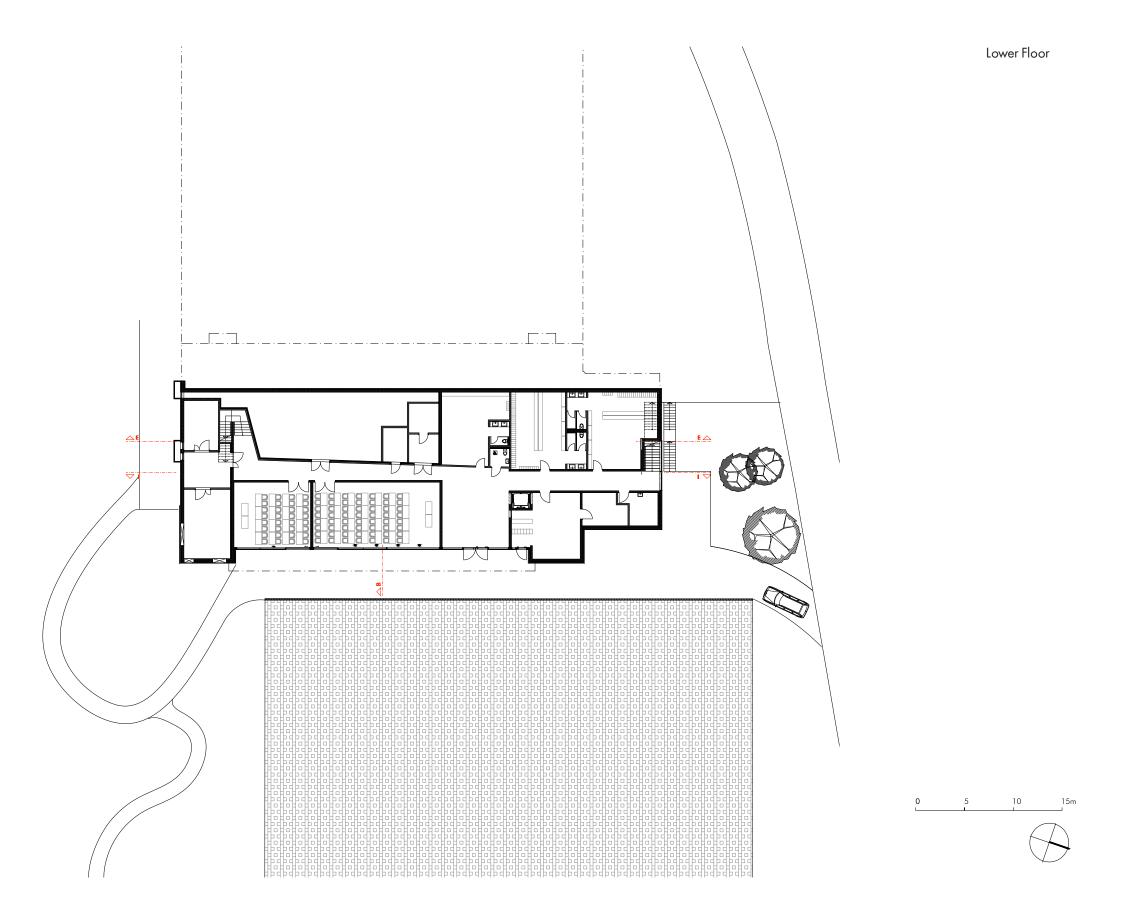
From the open fan stands at the upper floor one has a perfect view onto the rinks. All three floors are connected via lift and feature

disabled access.

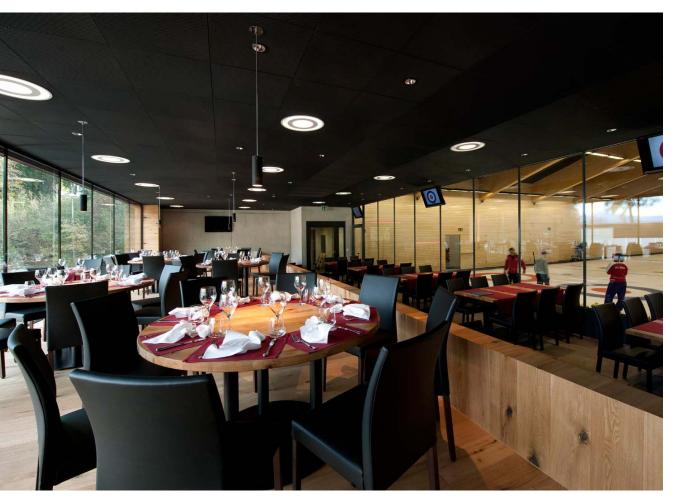




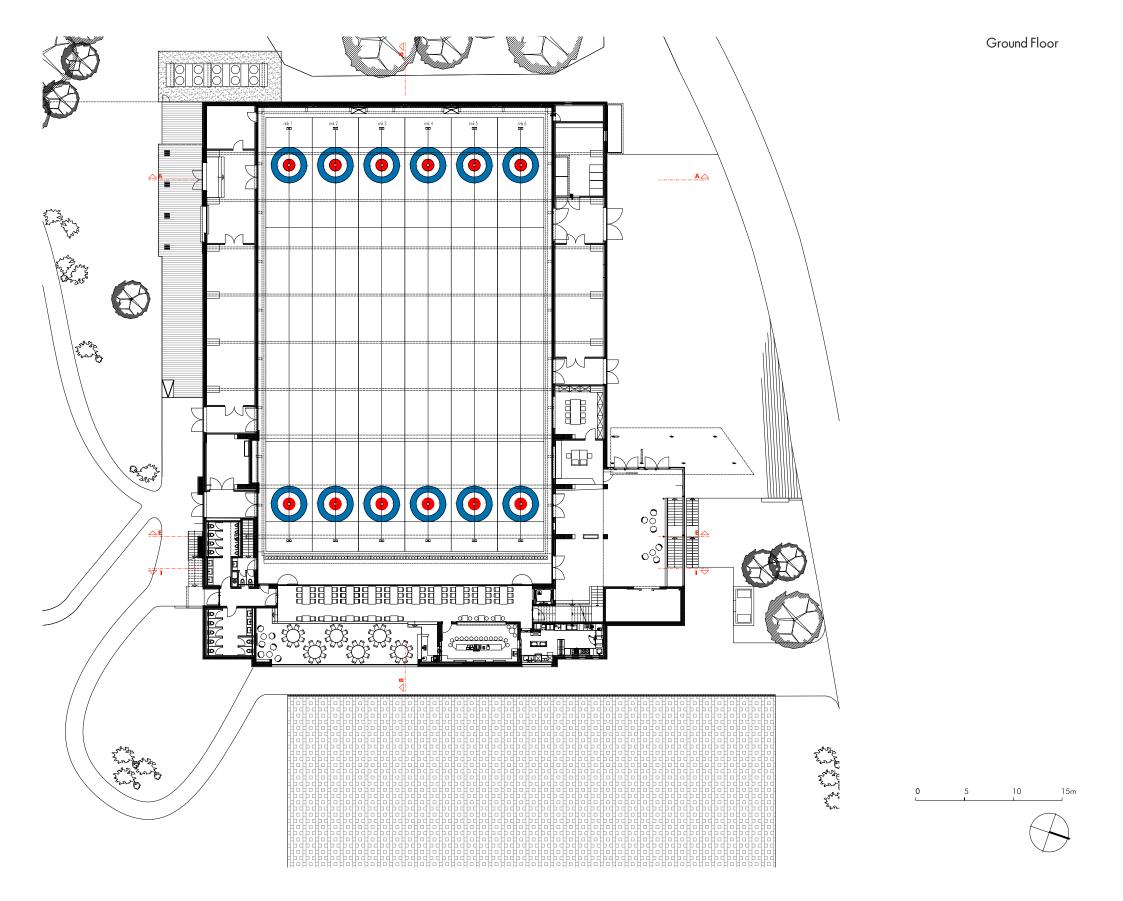








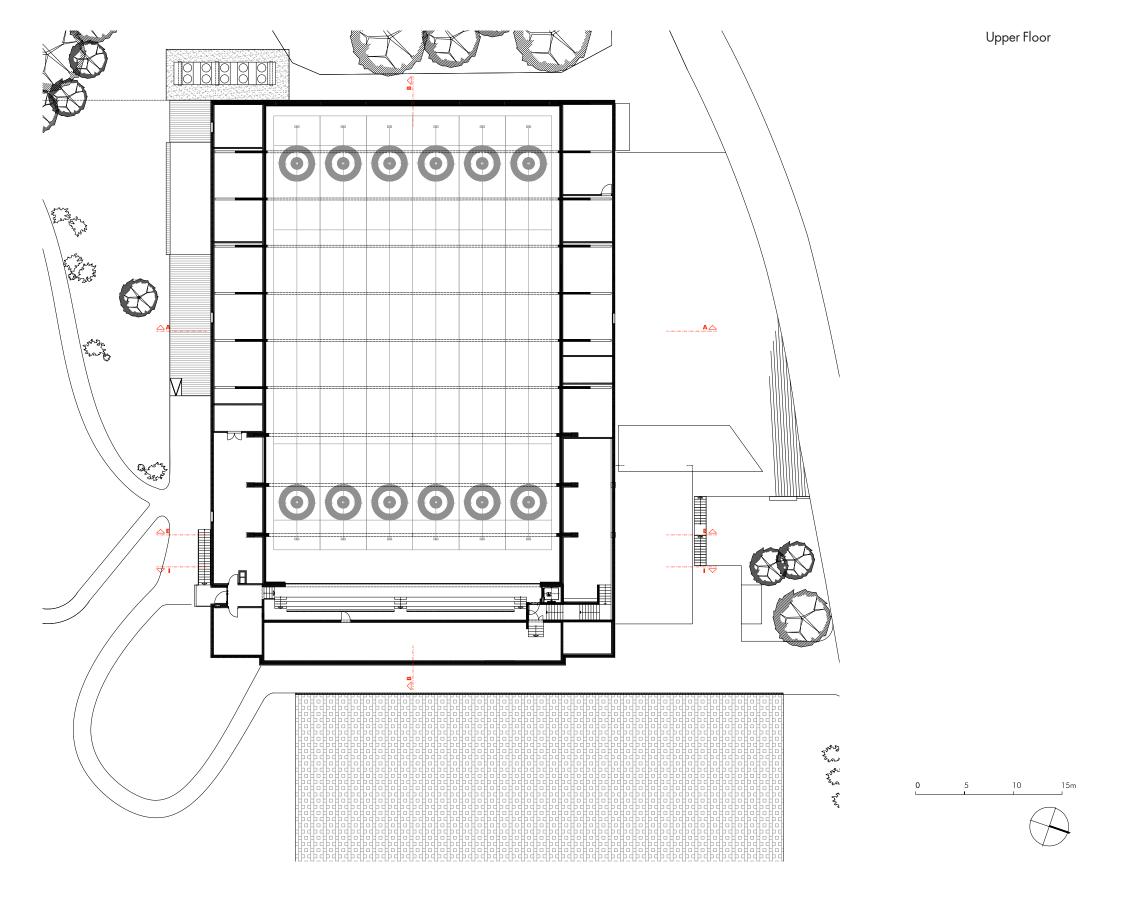








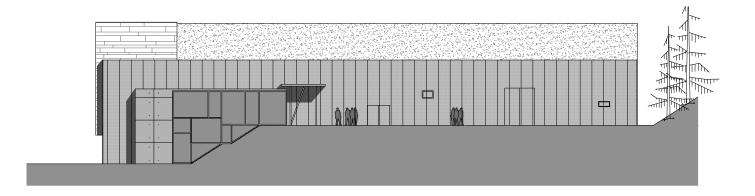


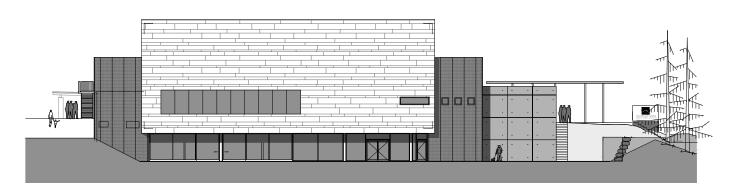




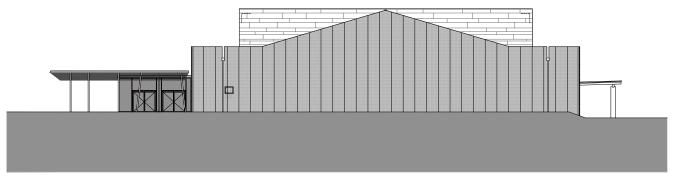




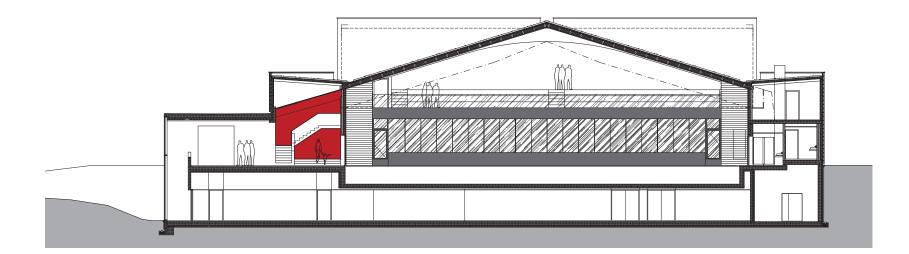




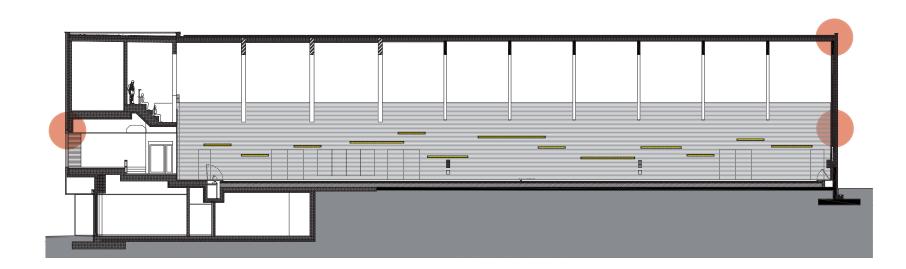




 ${\sf Elevations}$



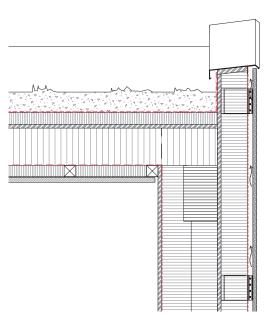
Section I



Section B

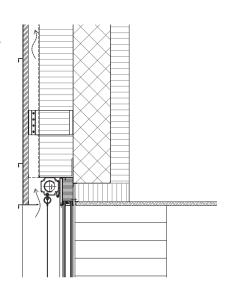
Thermal qualities of the facades

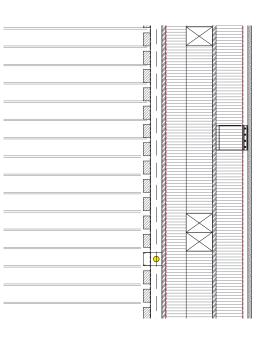
The constructions of external walls and roof have to comply with two extreme thermal situations: curling use at 6-10°C and event use at 20-24°C. We had to ensure that under no circumstance water vapour would condensate in any of the layers of the construction at those extremes. From the inside as well as from the outside Sisalex 500 vapour barriers were fitted, the outer barrier also working as a wind seal.



from outside to inside:
TECU Net rib mesh, copper classic
ventilation layer 30mm
vapour barrier / wind seal Sisalex 500
insulation: mineralwool 140mm
oriented strand board 18mm
squared timber framework: vertical 300mm, horizontal 140/100mm
insulation mineralwool 300mm
vapour barrier Sisalex 500
oriented strand board 18mm, painted black

from outside to inside: TECU Classic, horizontal copper bands oriented strand board 27mm ventilation layer / battens 60mm wind seal insulation 180mm concrete 200mm





from outside to inside:
TECU Net rib mesh, copper classic
ventilation layer 30mm
vapour barrier / wind seal Sisalex 500
insulation: mineralwool 140mm
oriented strand board 18mm
squared timber framework: vertical 300mm, horizontal 140/100mm
insulation mineralwool 300mm
vapour barrier Sisalex 500
oriented strand board 18mm, painted black
existing squared timber vertical
vertical battens 30/50mm (installation layer)
fleece, black
horizontal battens 70/40mm