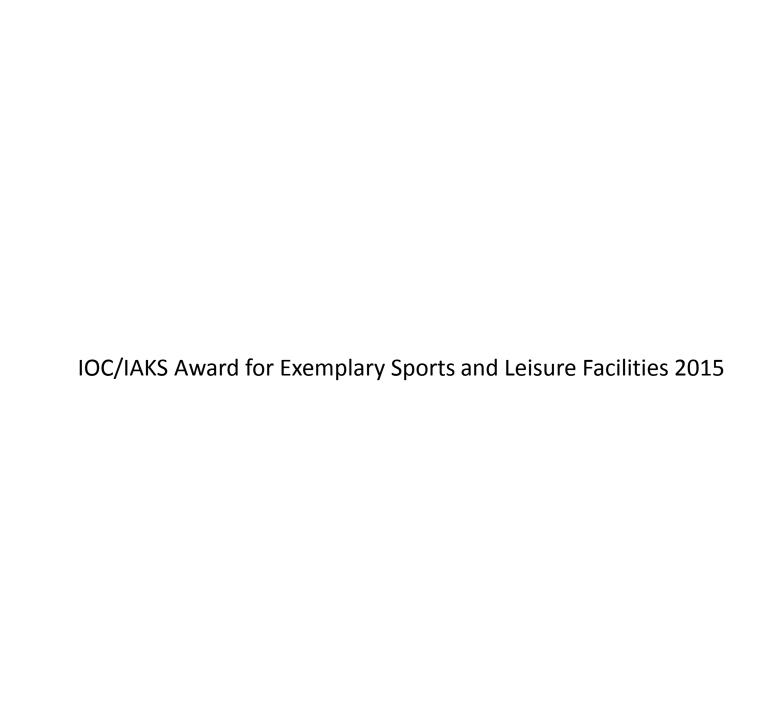
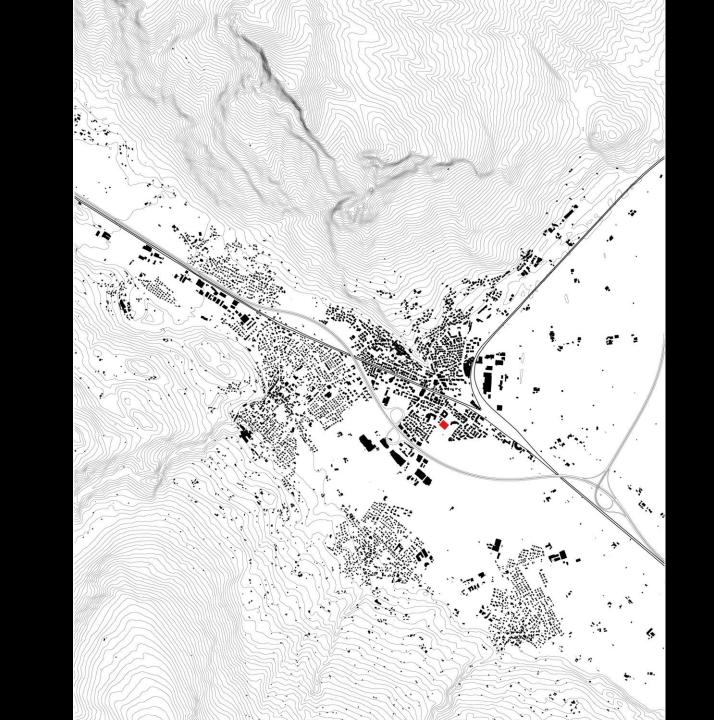
Sargans: Innovative Vierfachhalle in Holz

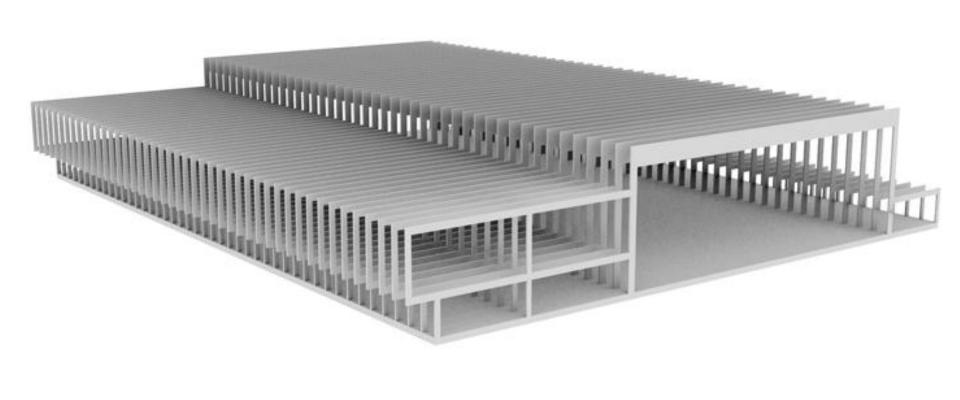
Blue Architects & Ruprecht Architekten

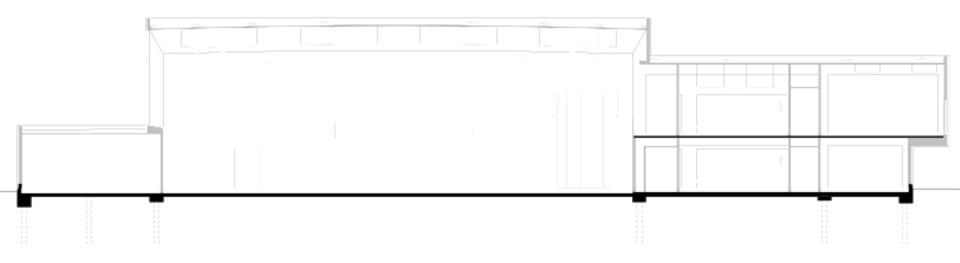


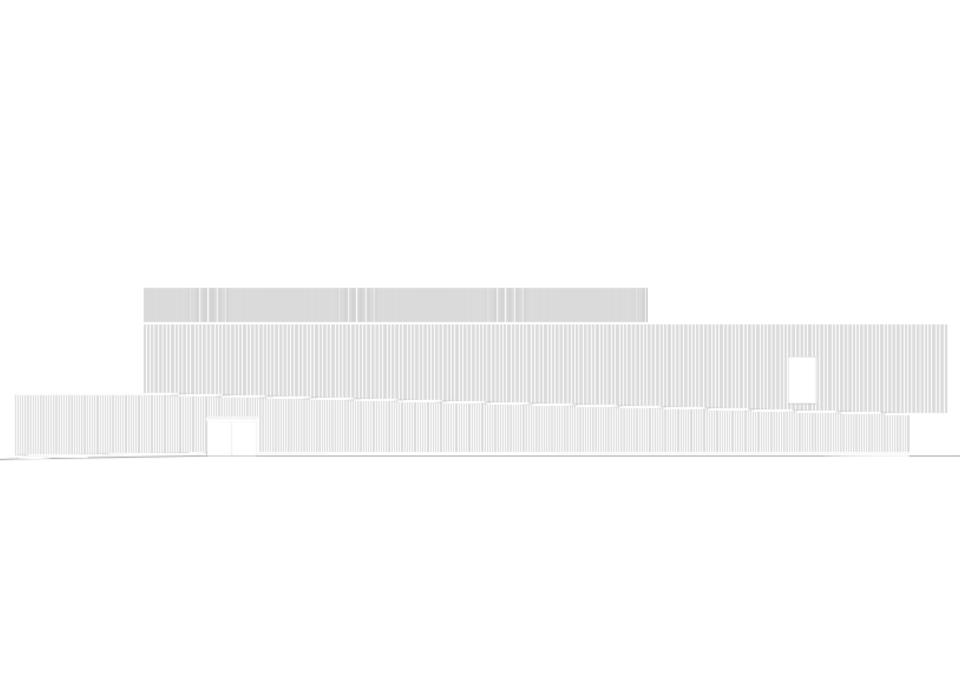


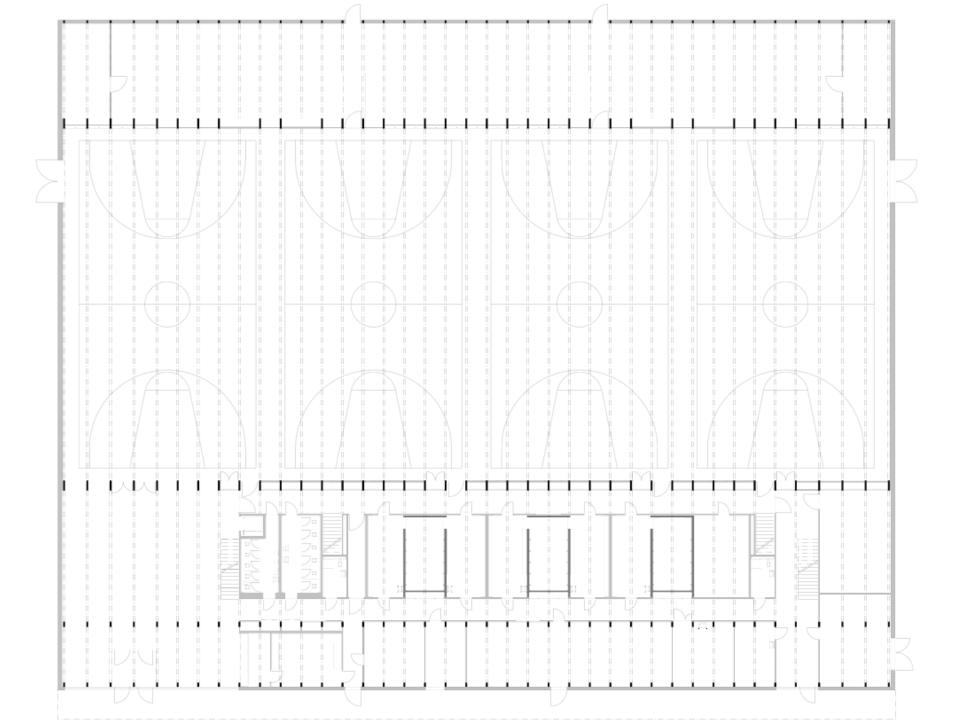






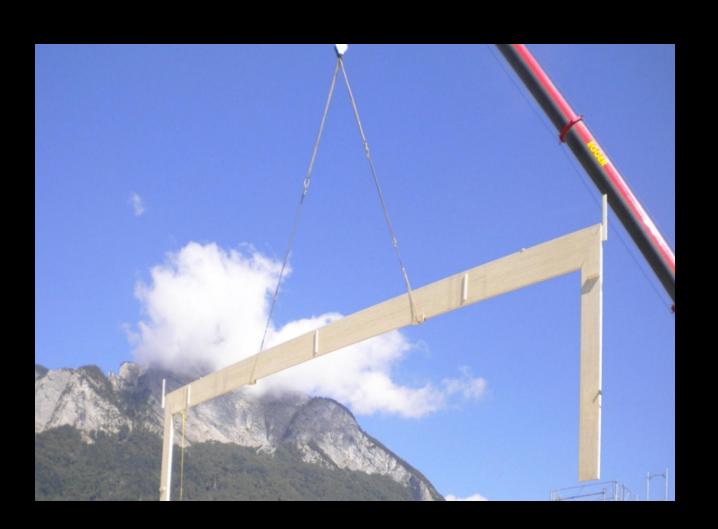










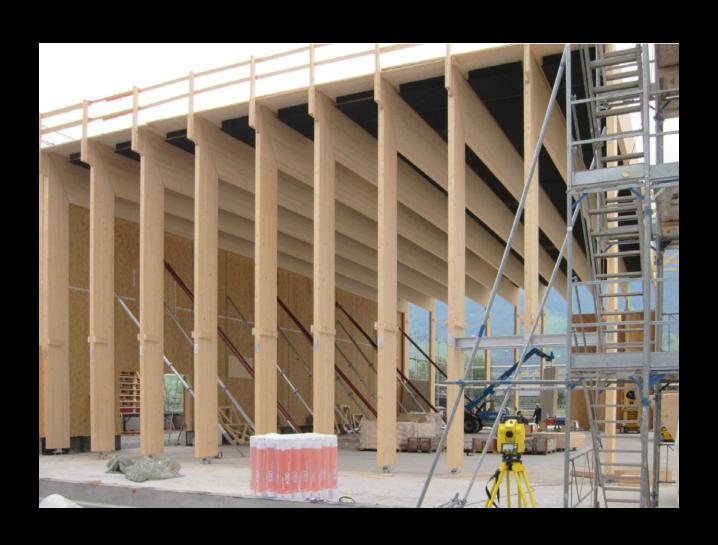




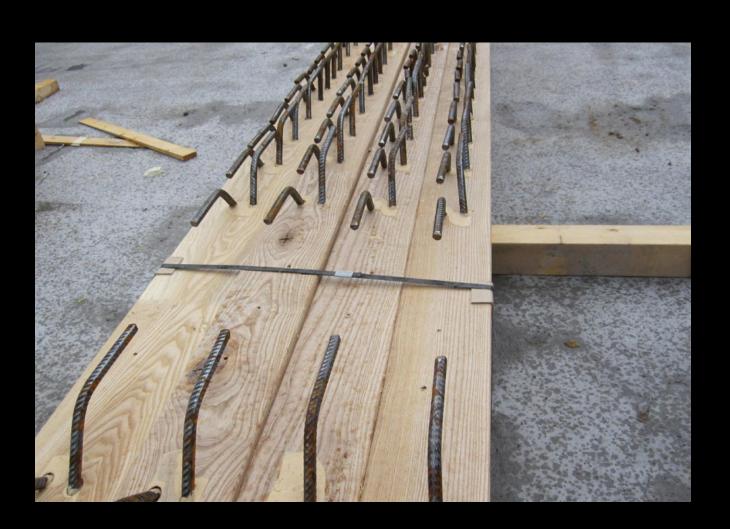




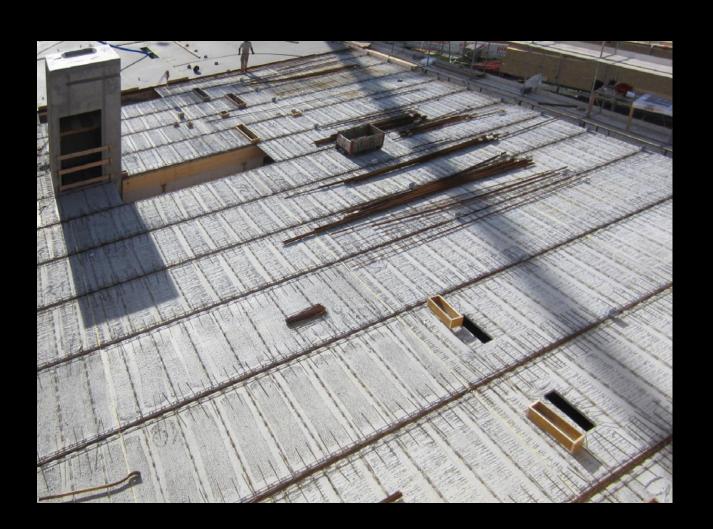


































2500 m^3

...of raw timber was needed for the construction

1'250m³

...is the amount of the processed wood

2000

...fir trees correspond to the amount of wood used

3h 21min

... this is the time needed for the regrowth of the raw timber counting all forests in Switzerland

63%

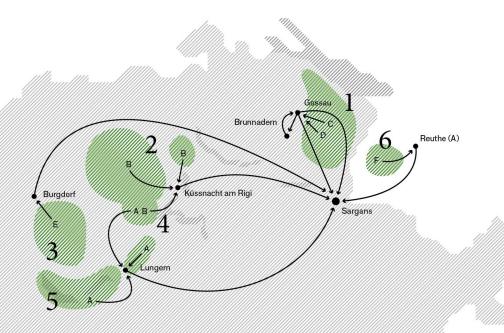
...of the wood is of Swiss origin

94%

...of the wood was processed in Switzerland

Woodlands

- 1 Bodensee
- 2 Zürich / Aarau
- 3 Burgdorf
- 4 Luzern
- 5 Thunersee / Obwalden
 - (Eschenholz | Ash wood)
- 6 Bregenzerwald



Transportation routes

- A Laminated timber frames sports center: The Neue Holzbau AG, Lungern, obtains its spruce for the laminated timber frames from the region around Lucerne. The ash wood is from the region Lake Thun / Obwalden.
- B.— Ceiling elements: The large format panels are produced at Schillinger Holz in Küssnacht. The wood comes from the region Zurich /Aarau.

 The large format panels are being transferred to the company Bisag in Küssnacht, where the acoustic elements and the substructure for the equipment and the lighting are preinstalled, before the finished elements are transported to the building site.
- C.— Walls: The wood used for the lamella planks of the wall's laminated timber beams is obtained from the Lake Constance region. They are cut to size at the wood processing plant Lehmann AG in Gossau and then delivered to Necker Holz in Brunnadern for further processing. After receiving the laminated timber beams back, Blumer-Lehmann then uses them to fabricate the interior wall- exterior wall- flooring- and ceiling-elements.
- D Wood façade and slats: Façade elements and slats are produced from wood from the Lake Constance area at the wood processing plant Lehmann AG, Gossau.
- E Laminated timber beams: The laminated timber beams are produced by Roth Holzleimbau. The wood comes from the region around Burgdorf.
- $F-Construction\ timber\ /\ Double\ wood\ constructions:\ The\ substructures\ are\ from\ the\ Bregenz\ Forest\ and\ are\ prodxxuced\ by\ Mayr-Melnhof\ Kaufmann\ in\ Reuthe.$



Timber Extraction

Forest owner	10/ m ³
Harvesting	44/m ³
Transportation	26/m ³
Maintenance (Roads unkeen nests)	$80 - /m^3$



Value enhancement Wood	160/m ³
A — Salaries	63%
B — Infrastructure	37%



Sawmill and Planing Facility

Purchase logs (high quality)	160/ m ³
Price after sawing/planing	280/ m ³

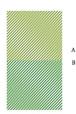


Value enhancement Wood	280/ m ³
A — Salaries	25%
B - Infrastructure	75%



Lamination Facility

Purchase (from Sawmill/Planing Facility)	280/m ³
Price Laminated Veneer Lumber	$750 - / m^3$

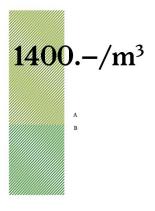


Value enhancement Wood	750/ m ³
A -Salaries	50%
B-Infrastructure	50%

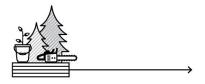


Construction Site

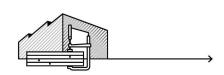
Finished Product______1400.-/m³



Value enhancement Wood	1400/m ³
A —Salaries	62%
B — Infrastructure	38%









Timber Extraction

Forest owner	10/m ³
Harvesting	$44/m^3$
Transportation	26/m ³
Maintenance (Roads, upkeep, pests)	80/m ³

Sawmill and Planing Facility

Purchase logs (high quality)	160/ m ³
Price after sawing/planing	280/m ³
x	

Lamination Facility

Purchase (from Sawmill/Planing Facility)	280/m ³
Price Laminated Veneer Lumber	750/m ³

Construction Site

r³ Finished Product 1400.-/m³

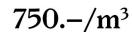
 $160.-/m^3$

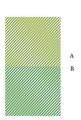


Value enhancement Wood	160/m ³
A —Salaries	63%
3 — Infrastructure	37 %



Value enhancement Wood	280/m ³
A - Salaries	25 %
B — Infrastructure	75 %





Value enhancement Wood	750/m ³
A —Salaries	50%
B — Infrastructure	50%



Value enhancement Wood	1400/ m ³
A -Salaries	62%
B — Infrastructure	38%

