

Ecological footprint

Allianz Arena, Munich



Allianz Arena



The **Allianz Arena** is a football stadium in the north of Munich, Bavaria, Germany. The two professional Munich football clubs FC Bayern Munich and TSV 1860 München have played their home games at the Allianz Arena since the start of the 2005–06 season.



Our Model

Egg box



Wood glue

Styrofoam

The Components



Needed for production:

Water

Electricity

Chemicals



**The Ecological
Footprint**

Water: 41,9 L/kg



**The Ecological
Footprint**

Electricity:

up to
1.050 kWh/m³ .

Producing
1 kWh
in germany
releases
514 g CO₂



The Ecological Footprint



Chemicals:
Flame retardant
HBCD is
„highly toxic for
water organisms“
and hardly
degradable.



**The Ecological
Footprint**

Stored very long in disposal sites
„highly toxic for
water organisms“



Recycling problems:

Little density
means
high cost of
transportation.

Can hardly
be recycled
because of
dirt.



The Ecological Footprint

Alternatives

Fungus grown out of grain

- biodegradable,
- fire resistant



**The Ecological
Footprint**

No Chemicals:

- neutral to CO₂ emission
- same CO₂ amount as photosynthesis



The Ecological Footprint



Materials:
100 % recyclable

biodegradable paper
(wood: regrowing)



**The Ecological
Footprint**

Materials:

based on (PolyVinylAcetat)



**The Ecological
Footprint**

