BUILDING WITH ROOF ELEMENTS

IDEA & ADVANTAGES

> Production independent of weather conditions in indoor workshops with first-class technical equipment
> Quality management and quality control directly from the manufacturer throughout all steps of production and processing in accordance with ISO 9001
> Large prefabricated elements possible through lightweight construction
> Fast assembly through large building elements with high prefabrication level
> Swift and cost-effective construction
> Building physics values verified by expertise
> Tested components for fire- and sound insulation
> Optimally adjusted systems for all deployment purposes
> One-stop implementation
> Individually adapted system components

ADVANTAGES

Quality assurance
Guaranteed date of completion
Cost assurance
ADVANTAGES OF THIS ELEMENT TYPE

> Universally deployable roof element to be assembled on supporting structures out of wood, steel or concrete.
> For industry, trade or indoor halls in general
> Static system, continuous beams over 2 or 3 spans
> Spans up to approx. 8 m
> Standard length max. 18 m (special lengths possible)
> Standard width up to 3.5 m (adjustable up to 4.5 m)
> Slender roof edge cantilever
LARGE SURFACE ROOF ELEMENTS

ADVANTAGES OF THIS ELEMENT TYPE

> Large surface roof-element with integrated glulam beam supporting structure
> For industry, trade or indoor halls in general—excellently suited for factory-fitted sheet covering
> Particularly suitable for indoor sports- and tennis court systems
> Reduced overall height (main supporting beam partly disappears in roof structure)
> Static system: single- or continuous beam; three-hinged- or frame construction
> Length max. 35 m, width max. 5.5 m, depending on means of transportation
BUILDING PHYSICS
OF ROOF ELEMENTS

HEAT PROTECTION
> Thermal insulating layer adjustable according to individual requirements
> from industrial- to passive house standards
> Mineral fibre wool or rock wool
> Ecological building materials

SOUND PROTECTION
> Adjustable layers
> Excellent sound absorption through corresponding bottom view panelling
> Sound insulation up to 48 dB possible, certified by sound insulation test

FIRE RESISTANCE
> Fire resistance categories:
  F30 (fire resistant)
  F60 (highly fire resistant)
  F90 (fireproof)
VARIETIES OF ROOFING & BOTTOM VIEWS

COMPLETE ROOF SYSTEM WITH FITTED ROOFING
> Out of sectional sheet metal (steel or aluminium)
> Foil insulation (PVC, Polyolife)
> Bituminous surface (Elastomere Bitumen)
> in special cases pre-covered semi-finished products (for weather protection) delivered for completion on site

WITH COMPLETED BOTTOM VIEW
> Out of wood, wood panels, smooth-edged boards, OSB-boards, three-layer boards or birch plywood boards
> Out of sheet metal, sheet metal panelling, trapezoidal sheet metal or Alucobond
> For acoustic purposes out of perforated OSB-slabs, three-layer boards, perforated birch plywood boards, perforated trapezoidal sheet metal, Herakustik boards or acoustic smooth-edged panelling.

ROOFING
Profile sheet metal
Foil insulation
Bituminous surface

BOTTOM VIEW
OSB-boards
Three-layer boards
Trapezoidal sheet metal
Perforated acoustic boards

JOSEF GLÖCKEL GMBH | Tel +43 (2747) 22 51x0  www.gloeckel.at