CLIMATE ZONES

CLIMATE ZONE 1

- Vierendeel truss construction
- Grid of 1.6 x 1.6m
- Structure with fixed connections
- Hanging facades & floors

CLIMATE ZONE 2

- Air conditioning by means of traditional ventilation shafts
- Heating by radiant floor panels
- Double skin facade

CLIMATE ZONE 3

- Air conditioning by means of traditional ventilation shafts
- Heating by radiant floor panels
- Double skin facade

CONSTRUCTION PRINCIPLE

VENTILATION SCHEMES

In winter ventilation is mechanically supplied and exhausted and heats up the space (5x m³/h). In summer the space is mostly ventilated naturally by opening windows and folding doors.

Ventilation is in winter mechanically supplied and exhausted; in summer naturally supplied and mechanically exhausted (3x m³/h).

Concrete slab funded on sand

Steel columns funded on poeren

Ventilation pipes

Construction axo

VENTILATION SCHEMES

SECONDARY BEAM CONNECTIONS

Vierendeel Trusses

Vierendeel space truss ring beam

Fixed connection with column

Second skin facade construction

Glass beams (secondary)

Steel column

Steel secondary floor beams

Steel secondary floor beams

Steel facade columns

Steel facade beams

Second skin facade construction

Block foundation (poeren)

Vierendeel truss construction

Grid of 1.6 x 1.6m

Structure with fixed connections

Hanging facades & floors

SECOND SKIN FACADE CONSTRUCTION

40 x 60mm profile

Steel facade columns

80 x 160mm profile, tensile strengths facade

Steel facade beam

250 x 250mm profile, lateral forces facade

SECONDARY BEAMS

50 x 250mm profile

Steel secondary floor beams

Steel column

800 x 800 - 500 x 500mm profile, 9.6 meters high

STEEL COLUMN

Steel secondary floor beams

Steel secondary floor beams

Steel facade columns

Steel facade beams

Second skin facade construction

Glass beams (secondary)

Ventilation pipes

Construction axo

SECONDARY BEAM CONNECTIONS

Vierendeel Trusses

Vierendeel space truss ring beam

Fixed connection with column

Second skin facade construction

Glass beams (secondary)

Steel column

Steel secondary floor beams

Steel secondary floor beams

Steel facade columns

Steel facade beams

Second skin facade construction

Block foundation (poeren)
FACADES

NORTH INTERIOR

NORTH EXTERIOR

EAST

SOUTH EXTERIOR

SOUTH INTERIOR

WEST

SECTIONS

AA

BB

CC

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