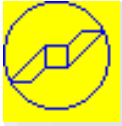


ICAB

Finite Element Analysis

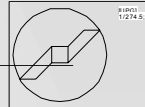
- Steel design examples
 - buildings, travelling cranes
 - tank, conveyor, furnace
 - elevator
 - moveable bridge, lock
 - Radar tower
 - Pylons



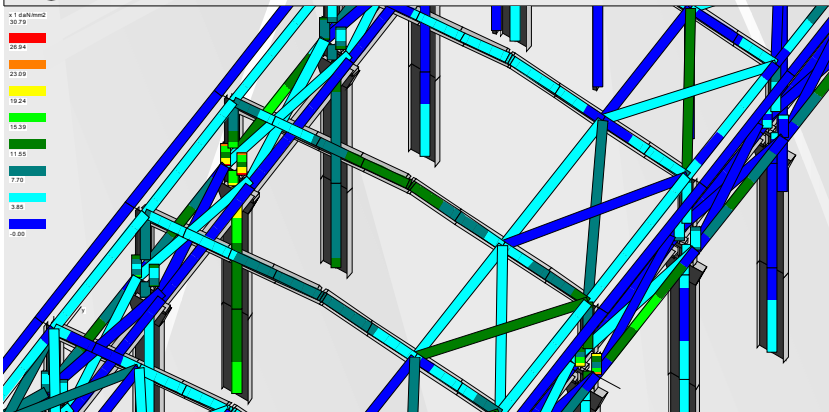


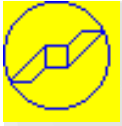
Steel building

- occupational, wind, snow, seismic loads



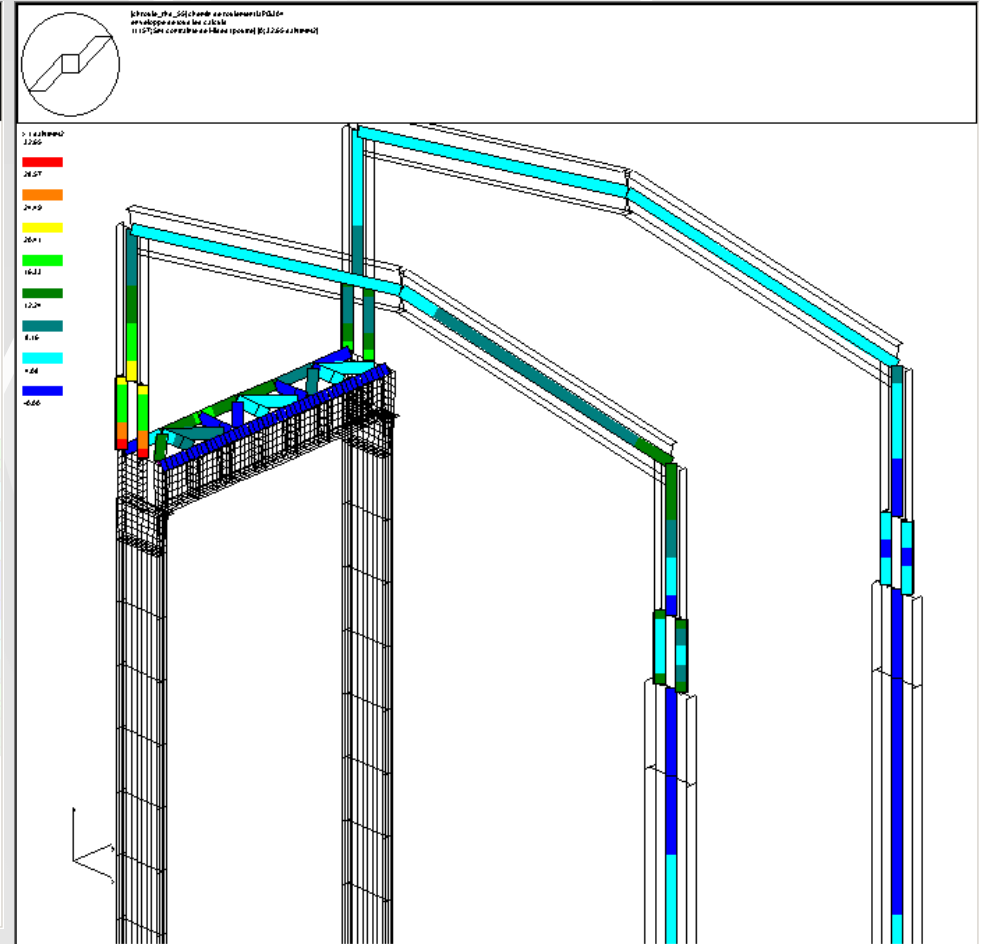
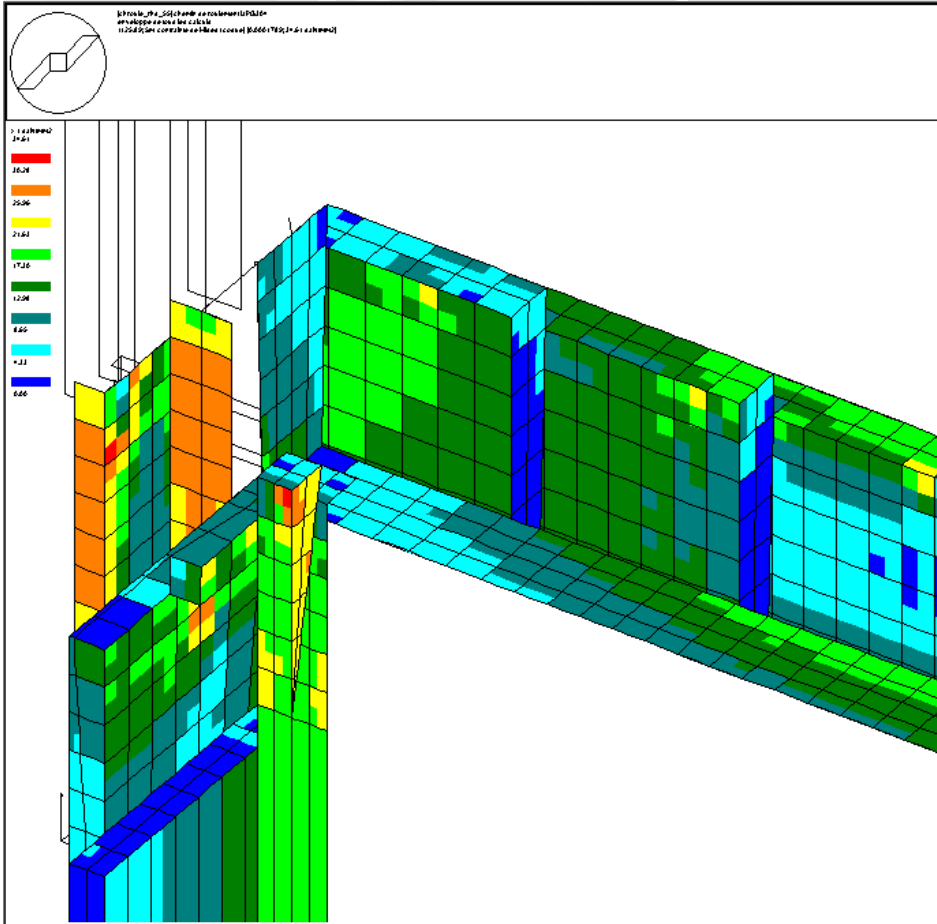
UFG (distribuição) para o caso E1 - FF - UFG304
a=0,000m; b=0,000m; c=0,000m
1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 11,000 12,000 13,000 14,000 15,000 16,000 17,000 18,000 19,000 20,000 21,000 22,000 23,000 24,000 25,000 26,000 27,000 28,000 29,000 30,000 31,000 32,000 33,000 34,000 35,000 36,000 37,000 38,000 39,000 40,000 41,000 42,000 43,000 44,000 45,000 46,000 47,000 48,000 49,000 50,000 51,000 52,000 53,000 54,000 55,000 56,000 57,000 58,000 59,000 60,000 61,000 62,000 63,000 64,000 65,000 66,000 67,000 68,000 69,000 70,000 71,000 72,000 73,000 74,000 75,000 76,000 77,000 78,000 79,000 80,000 81,000 82,000 83,000 84,000 85,000 86,000 87,000 88,000 89,000 90,000 91,000 92,000 93,000 94,000 95,000 96,000 97,000 98,000 99,000 100,000

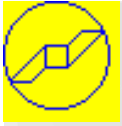




Travelling crane support

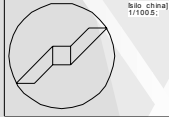
- Detailed model



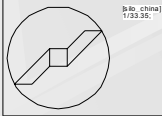


Tanks, silos

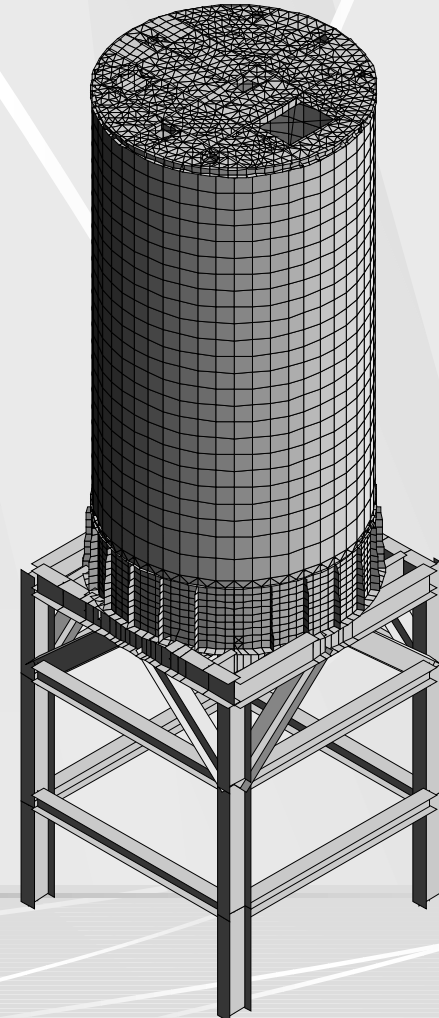
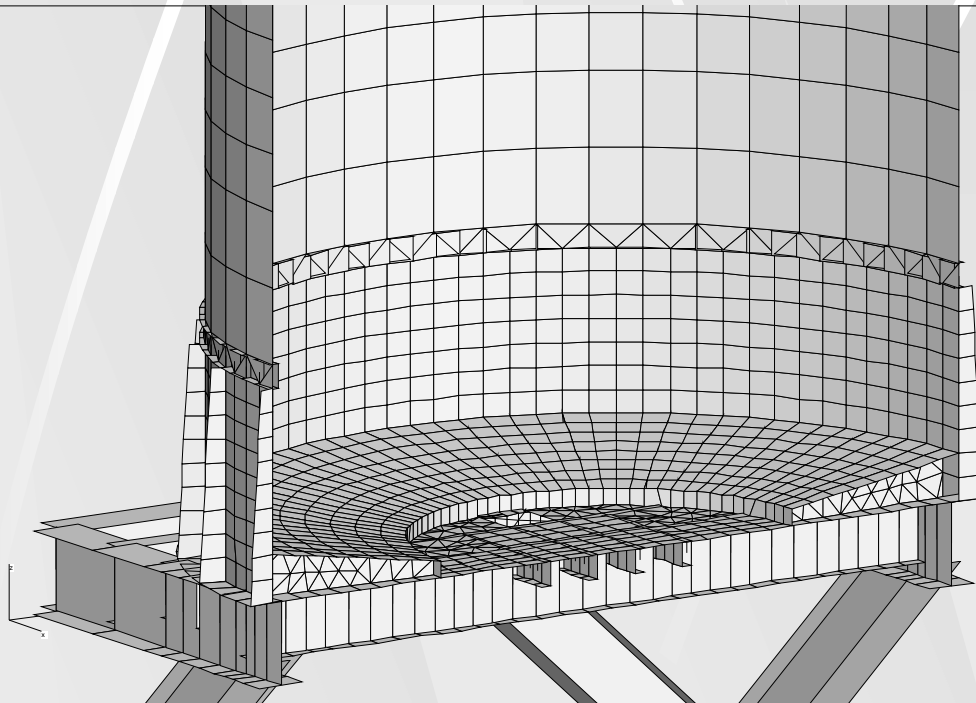
- Powder or hydraulic load

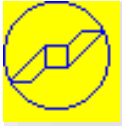


[Silos China]
1/1/2002



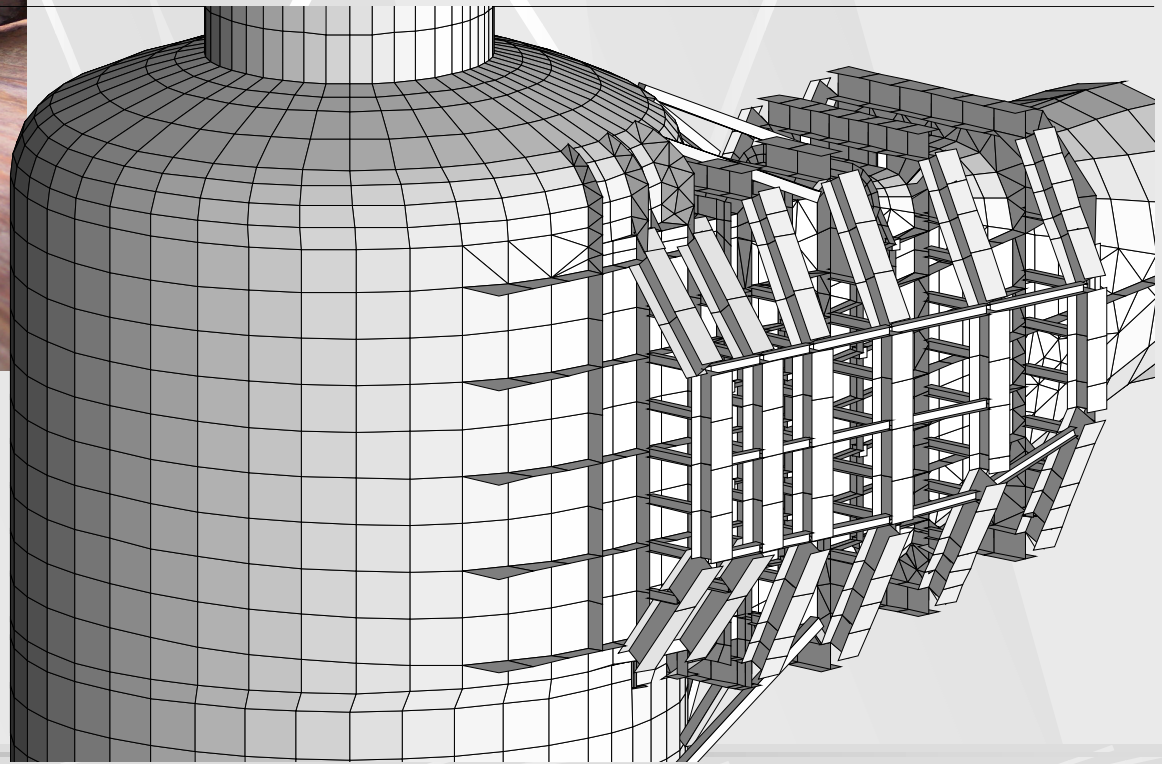
[Silos China]
1/1/2002

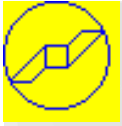




Expertise and reinforcement Furnace exhaust

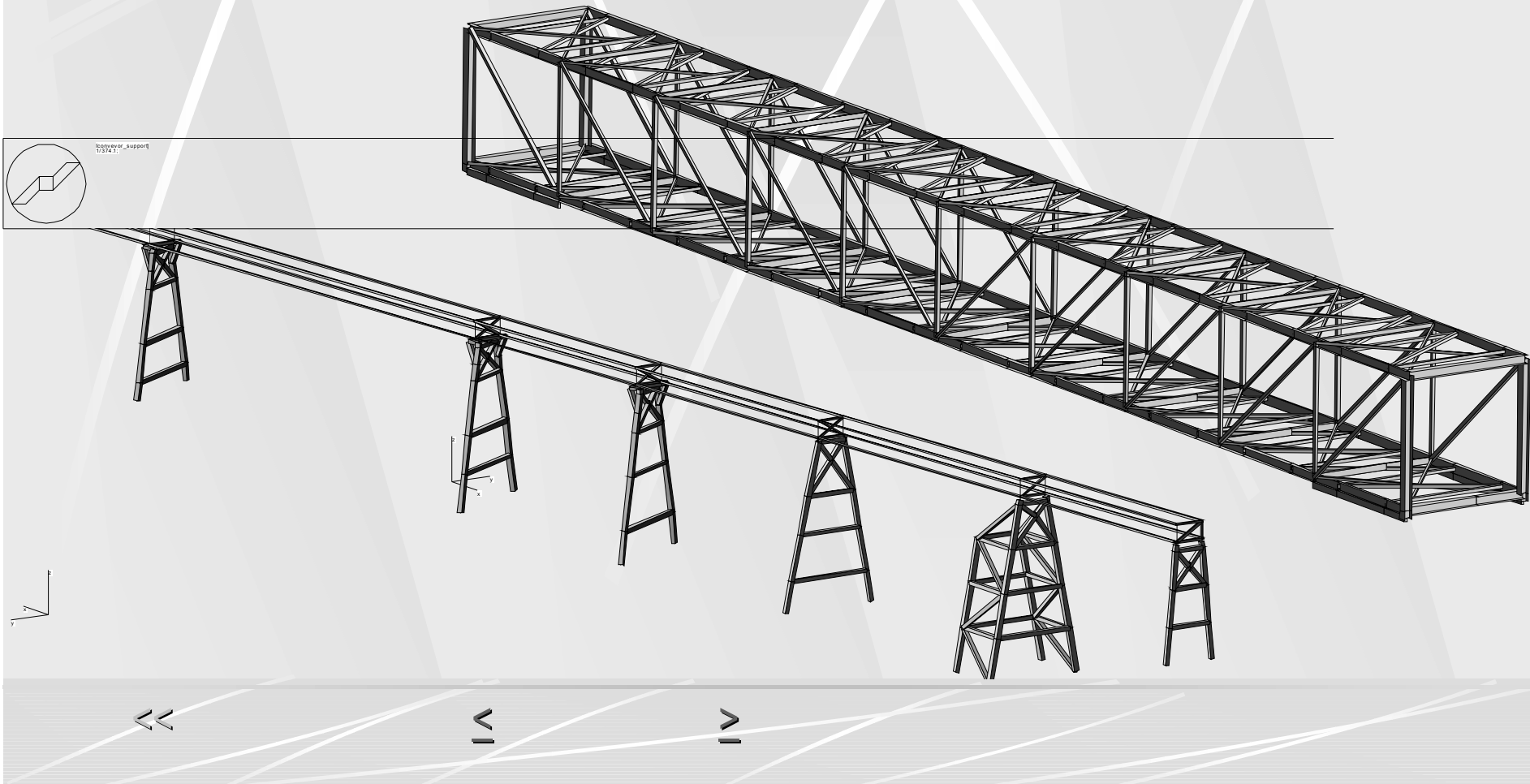
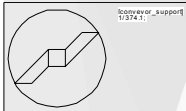
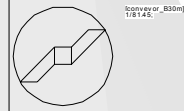
- Hot air under pressure

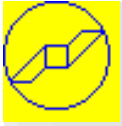




Conveyor

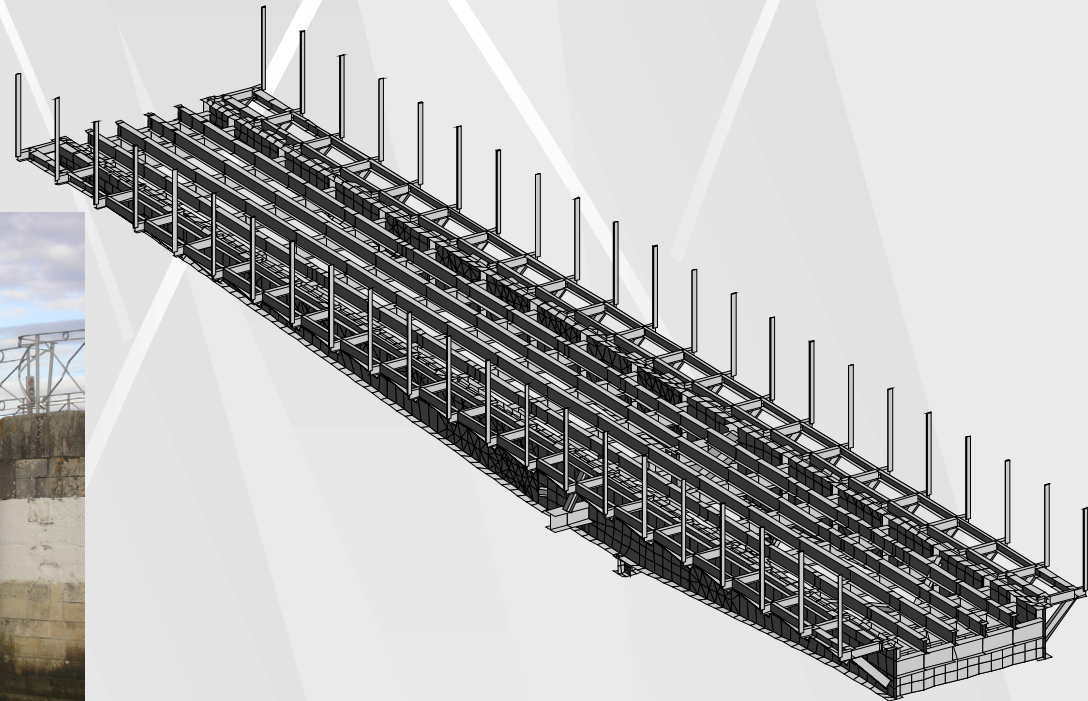
- Conveyor belt with supports

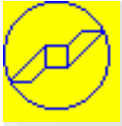




Moveable bridge

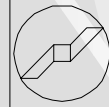
- Traffic, occupational, wind, snow loads
- Old bridge -> new design with less steel



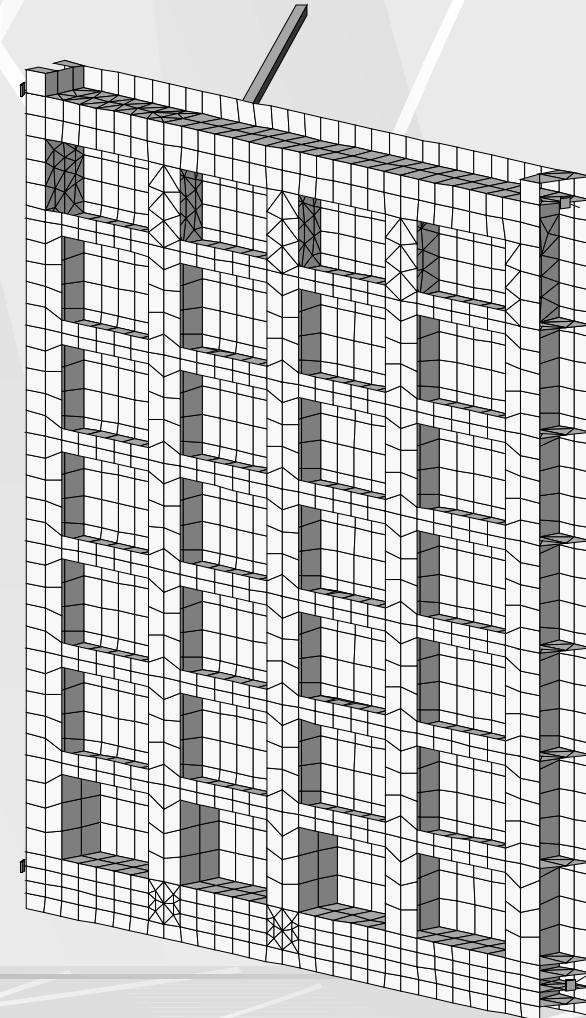
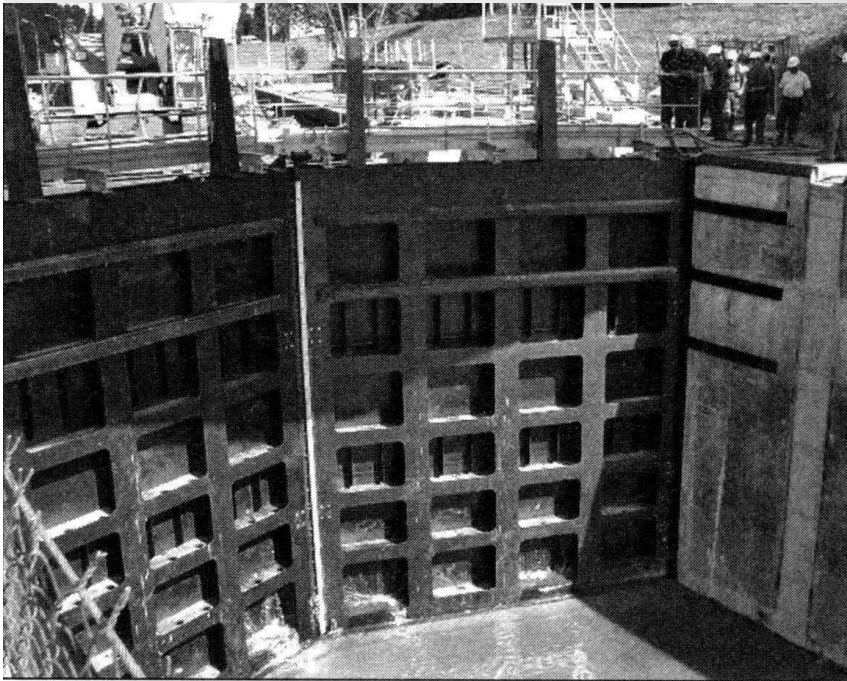


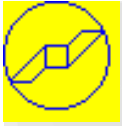
Canal Lock

● Hydraulic pressure



[vantail_oise]
1/50.4;

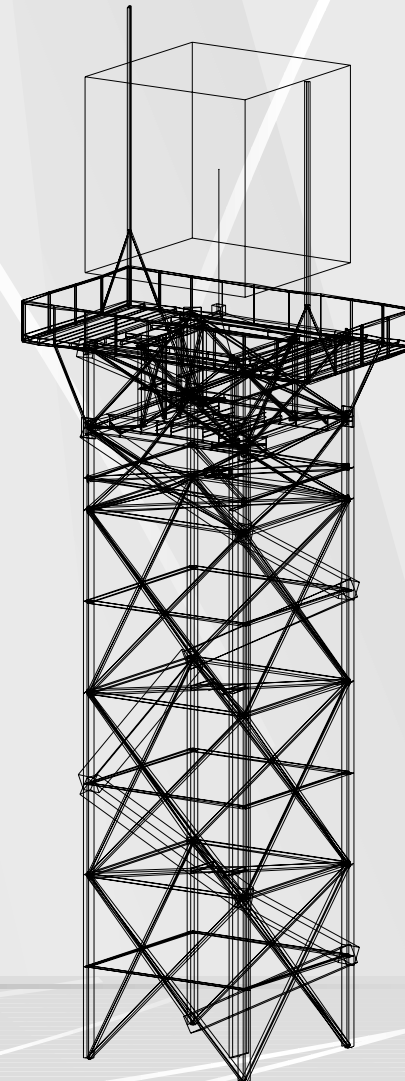
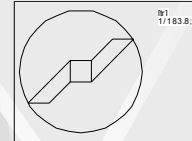


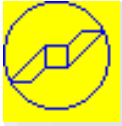


Radar towers

● From 5m to 30m

- Global localization,
- extreme wind, seism, temperature

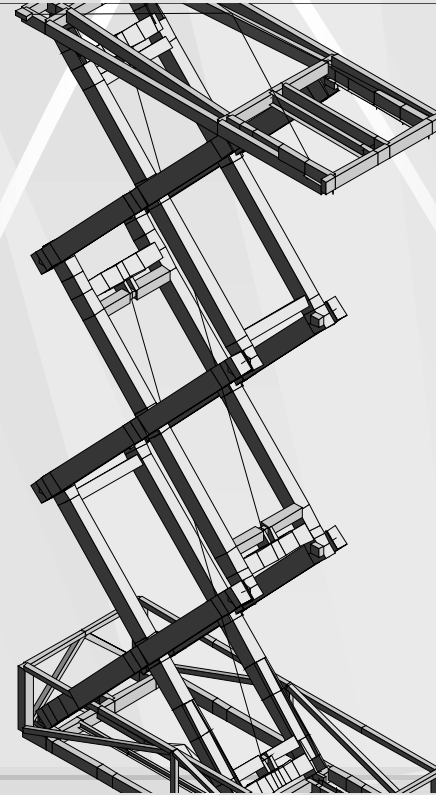
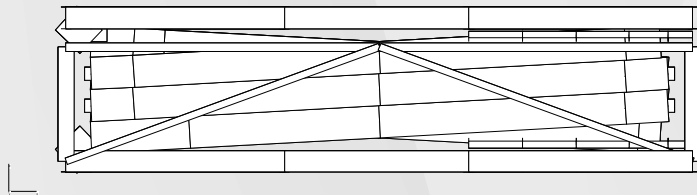


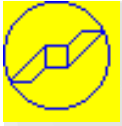


tactical systems

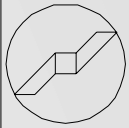
● Self-elevator radar system

- Air transportable in container
- Radar support and tower mounted without crane

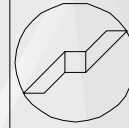
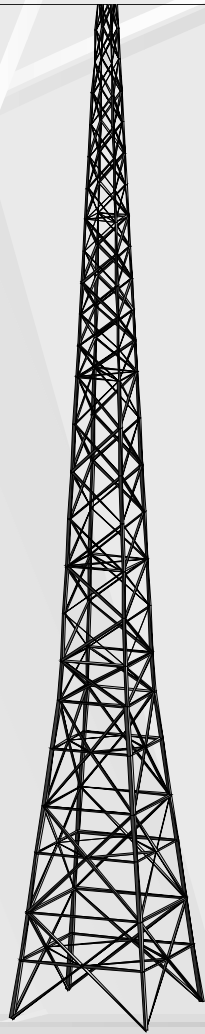




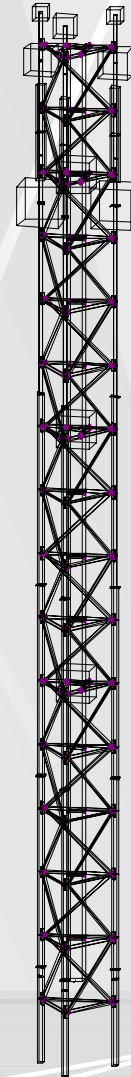
pylons

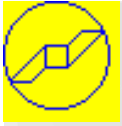


pylon 4L
1/4252



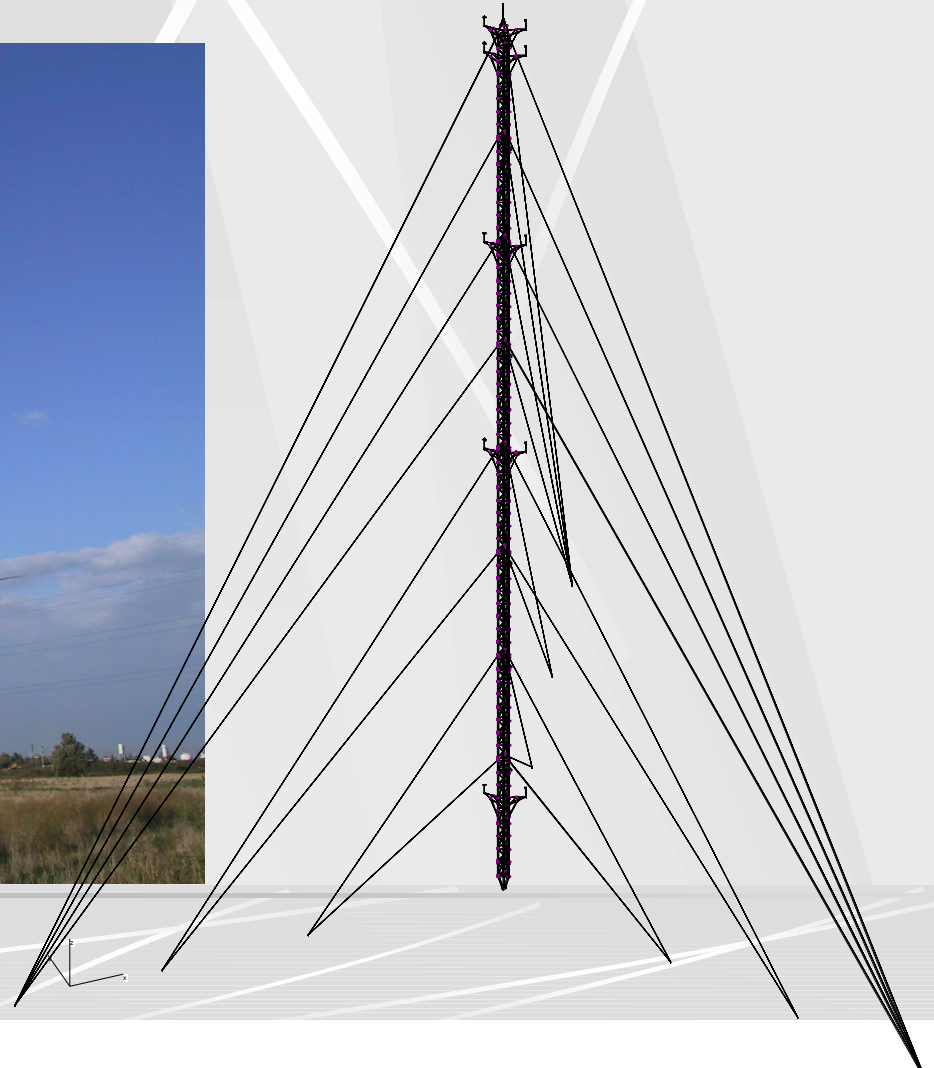
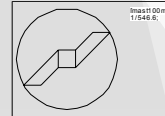
pylon 30m2
1/2102

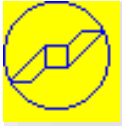




Guyed poles

● up to 100m





Telescopic poles

● Up to 50m

