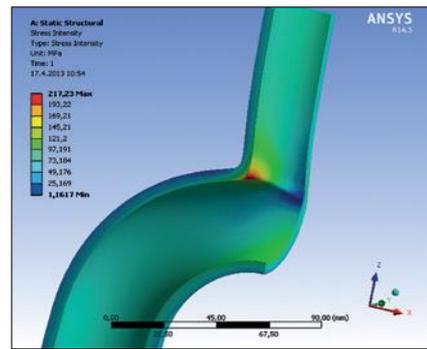
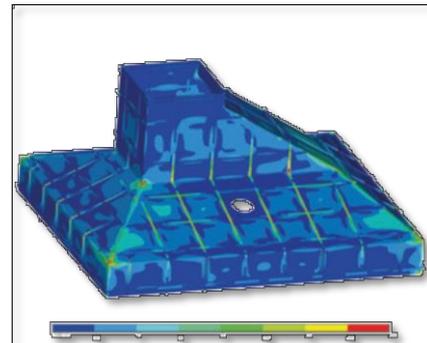


Stress Calculations, Steel Structures

What distinguishes us from conventional engineering offices

- Ability to solve not only ordinary tasks but also the special ones
- Knowledge of international standards
- Structure geometry transfer among software
- Checking of collisions between structural steel and technology
- Ability to solve critical situations all over the world
- ASME-S Certificate
- ISO 9001, 14001, 18001 Certificates



We can offer strength assessments for the following structures, among others

- Steel structure of the steam boiler and the boiler house
- Steel structures of buildings and technological constructions
- Pressure and non-pressure parts of steam boilers
- Stacks
- Vibration grates
- Crane tracks
- Silos and bunkers
- Water walls
- Flue gas ducts

Software equipment

- AdvanceSteel
- Ansys
- AutoCad
- CaePipe
- Inventor
- MathCad
- Probad
- Scia Engineer

Types of analyses we are able to provide

- Linear and non-linear static analysis of structures
- Linear and non-linear structure stability
- Heat transfer tasks
- Heat expansion calculations of pipings
- Linear and non-linear dynamic analysis
- Seismic analysis
- Structure capacity design for seismic regions
- Fatigue evaluation
- Contact tasks
- FEM – Finite Element Method (ANSYS)

Outputs of the executed analyses can have various forms

- Basic design of the steel structure
- Documents for the release procedure by the Engineer authority
- Strength calculations of the pressure parts for the release according to EN 12952, ASME I, B31.1
- Expert and opponent opinions



References

- 3 × Hot Water Boiler, Lichterfelde block A, Germany
- 2 × HRSG, Polyarnaya, Russia
- Clean Biomass Fired Boiler, Elblag, Poland
- 2 × HRSG, Ambarli, Turkey
- HRSG, Krasnodar, Russia
- General Modernization of the Coal Fired Boiler K6, Kakanj, Bosnia and Herzegovina