# FINAL EXAMINATION PROJECT
## Documentation

<table>
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<tr>
<th>Author(s)</th>
<th>Stefan LASINGER</th>
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<td>Academic year</td>
<td>2013/14</td>
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<td>Circular Benches</td>
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<td>Co-operation partners</td>
<td>Dipl. Päd. FL Wilhelm Gisperg</td>
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| Assignment of tasks | Designing, manufacturing and installation of two circular benches for the elementary school Schönau an der Triesting |

## Realization

The student has made two circular benches that serve as cover for two well shafts and also can be used as a seat for the children of the elementary school. The design of the benches was carried out in such a way that an easy access for service is guaranteed.

### Construction:
- The circular benches each have a diameter of 1,600 mm.
- They are weather resistant and of durable design.
- Easy access to the well shafts for maintenance is guaranteed. The circular benches consist of two main segments that can be easily disassembled.
- The required set of drawings was created with a CAD program. The planning and preparation work was carried out by the student independently.
- All components were made, assembled, and tested by the student in the workshop of the machine and systems engineering department.
- The circular benches consist of an inner body which is composed of rolled form tubes.
- The seating segments were welded to the inner body. On this, seats and back rests from weather-resistant panels in different colours were bolted.
- For the parasol, a corresponding holder was provided.

## Results

The finished circular benches were first checked for security in the workshop. Subsequently, the benches were mounted on the space provided at the elementary school. Finally, the benches were inspected.

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by a civil engineer.

For this final examination paper, a complete documentation with drawings on design and manufacturing, with spare parts lists and calculations regarding the steel structure of the circular benches was created. Also, a cost calculation was carried out because the budget of € 2,000, - was observed.

Illustrative graph, photo (incl. explanation)

Circular benches

Participation in competitions, awards

None

Accessibility of diploma thesis

Technical College of Machine and Systems Engineering, Mödling

Approval
20 May 2014

Examiner
Ing. Gerhard Buchmayr
Dipl. Päd. FL Wilhelm Gisperg

Head of Department
OSIR DI Günther Hörlesberger