Light Rail Day
Bergen

COLOURS USED IN LEVEL CROSSINGS

15.11.2016

GMUNDNER FERTIGTEILE
Company

GMUNDNER FERTIGTEILE
medium-sized private company

- Staff: < 50 Persons
- Plant: reinforced-concrete parts, polymer-concrete, special-concrete parts
- Turnover: ~ 10 Mio EURO
- Export: represented in 20 countries
Products:
• BODAN – level crossing system (produced in polymer concrete)
• BO-TRACK – slab track system (produced in cement concrete)
• Technical buildings for railway installations
• Bus and tram stops
• Platforms (prefabricated)
• Specialites
• Tactile Paving

Level Crossings
Requirements

Railway`s view:
• Safety through tried and tested system
• Track quality is the same everywhere (track line and LC area)
• Low expenditure for installation and dismantling
• Low expenditure required for routine maintenance
• High electrical resistance with track insulation
• Good rating for life cycle costs (LCC)
**Level Crossings**

**Requirements**

**Road Operator`s view:**
- Safety through tried and tested system
- Continuously road space
- High skid resistance due to grain-rough surface
- High level of durability with heavy duty truck & lorry traffic
- New developments to get even higher performance in safety aspects on the level crossing

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**BODAN**

**Level Crossing**

- BODAN comes up to all requirements -> track- and street-side
- BODAN – bridge structure; the loads of road traffic weighing on the panels are elastically transferred through rubber profile wedges to the rail foot. The elasticity of the rail is maintained also in the level crossing area.
BODAN System

Designed with standard elements

BODAN Special requests
BODAN
References

- 300 to 400 BODAN level crossings every year
- BODAN installations in 29 countries on five continents
- Germany > 3,000 BODAN level crossings
- Austria > 1,800 BODAN level crossings
- Japan 500 BODAN level crossings

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Why to use colours in Level crossings

- Raise attention of car drivers
- Raise attention of persons crossing
- Marking areas where „not to stop“
- Slow down car speed
- Separate areas of car and pedestrian traffic
- Architectural aspects
- Indicate, that there is a track crossing (additional to other signs)
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NORWAY

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Czech Republic
Austria

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Switzerland

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Japan

Australia
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Japan

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Railway Exhibition
Thank you for your attention!