

Roadway expansion joints LR2-LS100 to LR12-LS100 with noise reduction by means of 'sinus panels' for a gap width of 5 up to 100 mm

Regular testing as per TL/TP-FÜ (Edition 03/05)

As per requirements of the:
 Federal Transport, Building and Housing Ministry,
 Road Construction Department / Report S 25
 Robert-Schuman-Platz 1
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Translation from
the original



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Regelprüfung

*in statischer und konstruktiver Hinsicht
 gemäß TL/TP-FÜ (Stand 03/05)
 geprüft, siehe Prüfbericht-Nr.: S 03 732
 vom 11.04.05*

[Signature]

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Federal Ministry for Traffic, Construction and Urban Planning:

Regelprüfung

Der Anwendung gem. TL/TP-FÜ 92
 unter Prüfbericht-Nr.: S 03732
 vom 11.04.05 wird zugestimmt.
 Geltungsdauer: 30.06.2010

Bundesministerium für Verkehr,
 Bau- und Wohnungswesen
 Abteilung Straßenbau, Straßenverkehr
 Im Auftrag *[Signature]*

Bonn, den 28.06.05
 Az. S/R/38.55-15/15.05

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Preamble and manufacturer's statement

Roadway expansion joints using a lamella design - the so-called "Robek" Expansion Joint System LR" - were invented by the mageba company more than 40 years ago. Since then the design has been successfully proven worldwide. The experience gained has been utilized for constant ongoing development and improvement. Based upon continually growing demands for noise-reducing expansion joints, mageba has developed a system which reduces noise levels in its LR expansion joints by means of 'sinus plates'. The LS100 type roadway expansion joint with 'sinus plates' (joints of a maximum of 100 mm) has the advantage over conventional designs used up until now (joints of maximum 70 mm), due to the fact that the overall extension value can be bridged over with a lesser number of joints. The result of this is smaller and economically advantageous roadway expansion joints with fewer components overall. The application-proven, regularly tested LR joints serve as the bearing structure for this regular test of the low-noise 'sinus panel' design (LS100). Through the issuing by the Federal Ministry of Transport of the Regular Test Memorandum, a significantly simplified test procedure is now permitted for the roadway expansion joints that are tested as per TL/TP-ING Roadway Expansion Joints.

This regular test is based upon extensive experimental and arithmetical investigations. Above all, special care has been paid to dynamic design matching, which is a significant factor in preventing fatigue damage and reducing noise emission.

mageba hereby affirms that it carries out tests on all roadway expansion joints, for which a regular test as per TL/TP ING Roadway Expansion Joints is required, as per all of the "documents with the Regular Test Memorandum" and as per the valid external quality control agreement for quality assurance.

Bülach, dated 31st. March 2005 Uslar, dated 31st. March 2005



CEO, T. Spuler



Subsidiary Germany, ppa. H. Homes

¹ Typenbezeichnung: LRn, mit n= 2, 3, ..., m Dichtprofilen

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Instructions for the use of this manual

It can be simply and quickly checked within the framework of the outline planning and the description for the structural marginal conditions as to whether a standard mageba-validated roadway expansion joint is applicable by consulting the details in Section 1 of the field of application. Sections 2 to 7 and the Appendix with the drawings contain additional details, which will be needed by structural engineers. Section 9 contains checklists for the most important points, which are to be observed in the planning and testing and for the installation.

The requisite details for the following activities that are to be performed are shown in the following sections:

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