

**NOTICE 2399 OF 2004****DEPARTMENT OF PUBLIC WORKS****AGRÉMENT SOUTH AFRICA**

(Approval of innovative construction products and systems)

Notice is hereby given that Agrément South Africa has, with effect from 19 April 2004, issued an Agrément certificate, details of which appear in the schedule hereto.

**SCHEDULE**

Agrément Certificate 2004/307

**Name of product:** Maurer Multi-Element Bridge Deck Expansion Joint  
**Certificate holder:** DSC-Zendon cc  
**Description:** The Maurer Multi-Element Bridge Deck Expansion Joint comprises steel centre beams with rubber glands. The movement of each gland is limited to 80 mm. Large movement ranges require several glands and centre beams between the edge beams. Wheel loads crossing the joint are transmitted by the centre beams to assigned support bars which are rigidly welded to them. Support bars are aligned in the direction of movement of the structure. The support bars are supported by resilient, precompressed spring and sliding bearings, located above and below the support bars respectively, in support boxes. The edge beams and support boxes are rigidly anchored to the reinforced concrete by means of anchor plates and anchor studs respectively. Control springs comprising mainly closed-cell polyurethane, arranged between the support bars, ensure a uniform distribution of the total movement to the individual joint gaps.

The joint is intended for use in all climatic regions of South Africa, and in all types of corrosive environments, where:-

- movement ranges up to 1200 mm, in multiples of 80 mm, must be accommodated
- skew angles of joints are not greater than 45 degrees
- vertical movements, measured at midpoint of the joint, do not exceed 10 mm for a two-gland joint, up to 45 mm for a 15 gland joint.

The glands are manufactured locally and the joint by Maurer Söhne in Germany and imported as a complete assembly.

The Agrément certificate contains detailed information on the product and can be accessed at <http://www.agrement.co.za>

Copies are obtainable from: The Manager  
Agrément South Africa  
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0001 **PRETORIA**