



APPLICATION

for the technical assessment of a bridge deck joint

Name of product to be assessed

Name of company/individual making application

Signed Date

Name (print) Position in company

ADMINISTRATIVE INFORMATION REQUIRED

Company registration no Vat no

ID no (in case of private applicant)

Postal address

Street address

Telephone no Cell no Fax no

Individual in the company responsible for this application and who can be contacted for information

Name Position in company

Telephone no Cell no Fax no

If this application is being handled by an agent, please give:

Name of agent

Name of company

Telephone no Cell no Fax no

INFORMATION REQUIRED ABOUT THE PRODUCT

1. A brief description of the product

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2. The use(s) for which the product is intended

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Agrément South Africa

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e-mail agrement@csir.co.za <http://www.agrement.co.za>

3. Climatic zones of South Africa where the product will be used

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4. By whom and where will the product be manufactured?

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5. At what stage of development is the product?

Being developed Market being tested In full production

6. Sites in South Africa where the product has been used. If only some sites are available for inspection, indicate which sites are available.

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GUIDELINES ON REQUIRED DOCUMENTATION

One set of supporting documentation must be submitted with each application. If the application is accepted, further sets of documentation may be required.

A complete description of the joint must be provided, including drawings and material properties. Confidential information must be clearly marked as such. The following information must be supplied.

GENERAL

Name of product

The brand name – i.e. the name normally used when supplying the joint commercially.

Description of joint

The description of the joint should provide a short (single paragraph) description of the joint. No details to be supplied.

Generic joint type

The generic joint type should be selected from the following list:

- flexible plug joints
- armoured edge nosing joints (also known as modular joints): multi-seal and single seal; claw and gland seal – single seal
- non-armoured edge nosing joints
- buried joints
- bolt-down joints, also known as mat joints or reinforced elastomeric joints
- cantilevered finger joints
- special types: i.e. seal-slab-seal.

Manufacturer

The manufacturer of the joint should be indicated together with contact details and manufacturing plant details. It must be clearly indicated whether the joint is:-

- locally manufactured under licence from an international firm
- Internationally manufactured and imported as a unit
- locally manufactured by a local supplier.

Status of local agent/supplier/manufacturer

The status of the local end-supplier of the joint should be indicated in terms of:

- local licensed agent
- sole supplier
- sole manufacturer.

Engineer's drawings

A complete set of engineer's drawings of the joint and detailing of the joint should be supplied. Fully annotated and dimensional drawings, where applicable, are required.

The drawings should preferably be of A4 size and not larger than A3.

Specifications of all relevant components

Detailed specifications of all components and assemblies (where applicable) of the joint should be supplied. These specifications should include the component description, material, tolerances, test criteria and test results. Give references where materials comply with standards. What procedures are implemented to ensure maintenance of quality of imported products? The formulation and composition (mix ratios are not required) of non-standard materials are required: these will be kept confidential to Agrément South Africa **unless the applicant agrees to their publication.**

Manufacturer's experience

The manufacturer's experience in terms of supply/manufacturing/installation of bridge deck joints in general should be supplied. Information such as the number of years in business, number of joints manufactured/supplied/installed, and the experience with the specific joint for which the application is being submitted should be provided.

Manufacture

A brief description of all manufacturing processes is required as well as recycling procedures, if any. Special measures taken to monitor quality at all stages should be mentioned. Manufacturing tolerances must be specified, where applicable. A detailed description of precautions taken during storage and transportation of the product, material or component to ensure the protection of the product and the safety of personnel should be given.

Quality system applied to the product

The quality assurance procedure should specify the controls applied in the factory and on site, as applicable. A quality assurance scheme based on the SABS ISO 9000 Series must be prepared to the satisfaction of Agrément South Africa. The finalisation of this scheme can take place during the evaluation process.

Joint history

The history of the joint for which the application is made should be provided. This should address issues such as:

- who developed the original joint
- is this the original or an improvement or a copy of a specific joint
- the number of these joints already in service
- the number of years the joint has been in service
- information on specific sites and the number of years in service.

Test reports and/or approvals from other organisations

Any available test reports or approvals issued by other testing bodies or authorities which cover the product should be submitted. Reports must be applicable for the use of the product as envisaged in South Africa. Documents in foreign languages should be submitted in English.

Joint warranty/guarantee

An indication should be provided of any warranty/guarantee supplied for the specific joint. The conditions under which the warranty/guarantee is supplied should also be stipulated.

Expected service life

An indication of the expected service life for the joint should be provided. This information should be based on existing experience of the joint's performance.

CONSTRUCTION

Installation procedures (new construction or rehabilitation)

The applicant must supply information on the installation procedures for the joint for both new bridges and rehabilitation of bridges. The following critical information must be included, whether the joint is intended for new construction or for the rehabilitation of bridges.

Equipment needed for installation:

- list of equipment
- indication of whether equipment is specialised or not
- equipment to be supplied by contractor or supplied by supplier/manufacturer?
- need for crane and storage area.

Manpower required for installation:

- manpower required from contractor
- manpower available from supplier
- skill level required
- man-hours required.

Preparation for installation required from bridge contractor:

- dimensions of cavity for joint
- preparation of adjoining surfaces
- condition of surfaces before joint installation can commence
- work area required
- connection points to be incorporated into existing bridge (i.e. reinforcement).

Preparation for installation to be performed by manufacturer/installer:

- lead-time required for orders
- information required on bridge and operational conditions.

Time required for installation:

- time required to move joint to site
- time required for preparatory work
- time required for installation of joint.

Time between installation and first use

Time required for all curing processes to finish and first traffic to be allowed on joint.

Critical elements in installation

A list of all critical path elements needed to receive special attention during installation process. These are the elements that could cause the joint to fail prematurely.

Information supplied to bridge contractor on installation

Information regarding dimensions, preparation and installation that the bridge contractor can expect to receive from the supplier.

Information required by manufacturer/supplier/installer for installation

Information on bridge details necessary to supply correct joint.

Installation procedures – rehabilitation only

The following additional information must be supplied in the case of replacement/repair of existing joints.

Specific requirements regarding removal of existing joints:

- information required on type of joint to be removed from bridge
- information required on time between removal and supply of new joint.

Specific requirements regarding preparation of surfacing after removal of existing joint:

- removal of excess material if recess is too small for new joint
- filling of excess recess if new joint is smaller than old joint
- preparation of existing surface for new joint
- methods to prepare bridge to ensure riding quality.

Procedure for installation under various conditions (e.g. only night work allowed, old concrete surfacings, additional asphalt surfacings, etc)

Any special procedures required to install the new joint in areas where the existing joint was removed.

MAINTENANCE

The applicant must supply information regarding the maintenance plan for the joint during the expected life of the joint. The maintenance plan must include the following critical information.

Maintenance procedures

Step-by-step procedures required for routine maintenance.

Critical elements for maintenance

Any element of the maintenance plan that, if omitted, could result in failure of the joint.

Duration of maintenance action

Time required to carry out maintenance.

Recommended frequency of maintenance:

- frequency of routine maintenance
- frequency of major maintenance.

Equipment required for maintenance:

- list of equipment required to perform all types of maintenance
- indication of special (manufacturer-supplied) equipment and normal equipment.

Manpower required for maintenance:

- manpower required from contractor
- manpower available from supplier
- skill level required
- man-hours required.

Expected effect of lack of maintenance

- effect of lack of specific maintenance steps on joint performance
- critical maintenance steps that could affect the life of the joint.

Expected cost of maintenance

Cost breakdown for all types of maintenance (routine and special).

DESIGN REQUIREMENTS

The applicant must supply information regarding the critical design requirements for the joint, both for new and rehabilitation projects. The requirements must address the following critical parameters:

- detailing of joint connection to new bridge deck
- detailing of joint connection to existing bridge deck (rehabilitation)
- detailing of joint at kerbs
- detailing of joint at sidewalks.

GUIDELINES ON THE INFORMATION REQUIRED ABOUT THE PRODUCT

1. A 'thumbnail' description of the product is required which covers the non-standard features of the product.
2. The specific use that the applicant wants covered by the envisaged Agrément certificate should be given.
3. Specify the climatic zones and, in particular, whether the coastal regions are included.