



**POLITECNICO
MILANO 1863**



00140

Notified Body 1777 - CPR

**CERTIFICATE OF CONSTANCY OF PERFORMANCE
1777 - CPR - 26.01**

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Displacement Dependent Device with Non Linear Response

with trade name

BJ-DEP

Hysteretic energy dissipating device to use in buildings and civil engineering works where requirements on individual devices are critical,

placed on the market under the name or trade mark of

BEARINGS AND JOINTS srl

Corso Francia, 96 – 10143 Torino (TO) - Italy

and produced in the manufacturing plant

BEARINGS AND JOINTS srl

Via Caossea, 61 – 35038 Torreglia (PD) - Italy

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 15129:2009

under System 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on 5 March 2026 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Milan, 5 March 2026.

Revision no. 0

Prof. Ing. Virginio Quaglini
Head of Certification Body

Firmato digitalmente da: VIRGINIO
QUAGLINI
Organizzazione:
POLITECNICO DI
MILANO/80057930150

**Laboratorio Prove Materiali
NB 1777- CPR**

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**Annex to Certificate of Constancy of Performance
no. 1777 – CPR – 26.01**

Displacement Dependent Device with Non Linear Response

with trade name

BJ-DEP

Description of the product

BJ-DEP-I-35(40)±44 is an energy dissipating device relying on the hysteretic behavior of a steel element deformed beyond its elastic limit. The device is classified as a Displacement Dependent Device with Non Linear Response in accordance with Table 1 of hEN 15129:2009.

The material of the deforming elements is Alloy A¹.

The temperature range is from +18° C to +28° C.

The intended use is in buildings and civil engineering works.

¹ appropriate documents reporting the identification characteristics of the alloy and the identification of the factories and outsourcers involved in the manufacturing process are deposited at the Notified Body involved in the attestation of constancy of performance procedure.

Performance characteristics

BJ-DEP-I-35(40)±44 devices meet the following requirements in accordance with hEN 15129:2009:

- evaluation of the force-displacement cycle, clause 6.4.4 a
- ramp test for the static evaluation of the failure displacement, clause 6.4.4 b.

Type, identification and use

BJ-DEP-I-35(40)±44 product type is evaluated on the basis of the results reported in the following table.

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| BJ-DEP-I-35(40)±44 | | |
|---|---------------------|-------------|
| <i>Deforming element dimension</i> | <i>Design value</i> | <i>Unit</i> |
| <i>Lower section</i> | | |
| Length | 65.00 | mm |
| Maximum diameter | 38.80 | mm |
| Minimum diameter | 32.10 | mm |
| <i>Upper section</i> | | |
| Length | 60.20 | mm |
| Maximum diameter | 32.10 | mm |
| Minimum diameter | 22.00 | mm |
| <i>Essential characteristics</i> | <i>Design value</i> | <i>Unit</i> |
| Load bearing capacity | Not applicable | == |
| Survivability against repeated load cycling | Conforming | == |
| Stiffness | | |
| K ₁ | 7.000 | kN/mm |
| K ₂ | 0.160 | kN/mm |
| K _{eff} | 0.900 | kN/mm |
| Energy dissipation capability | 45.00 | % |
| Horizontal distortion capability | ±72.6 | mm |
| Durability aspects | Conforming | == |

According to Test Report no. 2025/2051

BJ-DEP-I-35(40)±44 products covered by the present Certificate of Constancy of Performance are manufactured in accordance with the same design, parametric technical solutions and materials.

The dimensions of the deforming element of the product covered by the present Certificate of Constancy of Performance can vary within a geometrical linear difference less than 20% in accordance with clause 6.4.4 of hEN 15129:2009.

Milan, 5 March 2026.

Prof. Ing. Virginio Quaglini
Head of Certification Body

Firmato digitalmente
da: VIRGINIO QUAGLINI
Organizzazione:
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**The present Annex is only valid together with the
Certificate of Constancy of Performance no. 1777 – CPR – 26.01
rev.0 dated 5 March 2026.**