



**POLITECNICO**  
MILANO 1863

Laboratorio Prove Materiali - NB 1777 CPR

**Notified Body 1777 - CPR**

**CERTIFICATE OF CONSTANCY OF PERFORMANCE**  
**1777 - CPR - 22.02**

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

**Fluid Viscous Damper**

with trade name

**STRUCPRO**

velocity dependent 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

**DELLNER DAMPERS AB**

**P.O. BOX 51, SE-642 22 Flen - Sweden**

and produced in the manufacturing plant

**DELLNER DAMPERS AB – Industrivägen 5, SE-642 34 Flen - Sweden**

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 6 May 2022 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

The main characteristics of the product are reported in the Annex to this certificate.

Milan, 6 May 2022

Revision n. 0

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Prof. Ing. Carlo Poggi  
Head of Certification Body



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**Annex to Certificate of Constancy of Performance  
no. 1777 – CPR – 22.02**

**DELLNER DAMPERS STRUCPRO product family**

Description of the product

**STRUCPRO** is a device that provides an axial force in either tension or compression that depends on the imposed velocity only and complies with the constitutive law declared by the manufacturer over a velocity range extending at least two decades down from the maximum design level. The device is manufactured from ferrous materials and the active surface of the piston rod is hard chromium plated. The device is classified as Velocity Dependent in accordance with Table 1 of hEN 15129:2009.

The active surfaces are in accordance with clause 7.2.3 of hEN 15129:2009.<sup>1</sup>

The viscous fluid is in accordance with clause 7.2.4 of hEN 15129:2009.<sup>1</sup>

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

The intended use is in buildings and civil engineering works.

<sup>1</sup> appropriate documents reporting the identification characteristics of the fluid, active surfaces and outsourced manufacturing processes are deposited at the Notified Body involved in the attestation of constancy of performance procedure.

Performance characteristics

**STRUCPRO** products meet the following requirements in accordance with hEN 15129:2009:

- pressure test, clause 7.4.2.2
- low velocity test, clause 7.4.2.3
- constitutive law test, clause 7.4.2.5
- damping efficiency test, clause 7.4.2.7
- seal wear test, clause 7.4.2.9
- stroke verification test, clause 7.4.2.10

The product is not intended to accommodate wind-induced movements.





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STRUCPRO products (types and sizes) covered by the present Certificate of Constancy of Performance are manufactured in accordance with the same design and with the same parametric technical solutions.

The dimensions of the products covered by the present Certificate of Constancy of Performance can vary in the dimensional range defined below in accordance with clause 7.2.4.1 of hEN 15129.

<i>Load Capacity</i>	<i>Maximum velocity</i>	<i>Test Report</i>
932.8 to 1399.2 kN	up to 500 mm/s	2021/1779

Milan, 6 May 2022

Prof. Ing. Carlo Poggi  
Head of Certification Body

**The present Annex is only valid together with the  
Certificate of Constancy of Performance no. 1777 – CPR – 22.02  
rev.0 dated 6 May 2022**