

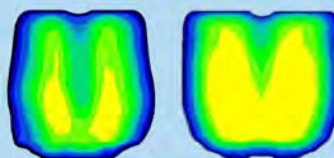


COMFORTABLY SMART

SLIM 800 Pneumatic Driver Seat

The state of the art pneumatic driver seat designed to satisfy all the most challenging requirements for the railway application without any compromises, not only in terms of strength, endurance and life cycle, but also in terms of comfort.

Comfort regardless of any driver's percentile, bespoke cushions **pressure map** analysis:



Most severe interpretation of the NF F-31-119, applying extra loads and EN 12663, implementing a driver mass of 130 kg (PII category). The seat is also homologated according to PI category, demonstrating the capability of resisting 5g inertial loads. Shock and vibration requirements as per EN 61373.

COMPONENT	CYCLES	TEST LOAD
BACKREST ANGLE ADJUSTMENT	100.000	500N
SEAT ROTATION 0° -> 120°	100.000	800N
LONGITUDINAL ADJUSTMENT	60.000	800N
EVACUATION ADJUSTMENT	50.000	800N
ARMREST ROTATION	50.000	400N
TILTING SYSTEM	100.000	800N



The seat is equipped with **pneumatic operating systems** which are the heart of the SLIM 800 pneumatic driver seat.

The apex of the comfort is achieved thanks to a **self-adapting suspension** based on the driver weight and optimized to **reduce the vibrations dis-comfort** coming from the unevenness of the ground encountered by the vehicle. To achieve this combination of functionalities, two independent systems are integrated (**patent pending**):

- Height adjustment thanks to a self-locking pneumatic piston
- Pneumatic self-adapting suspension

This system is designed to maintain the driver position in a vertical range, reducing possible **S.R.P. fluctuation** so without affecting the visibility required by the vehicle integration.

It is also possible to adjust the air suspension in relation to the weight of the driver without interfering with the height position.

The seat has demonstrated a vibration transmissibility **Trw <0.8** for a driver of 90kg, tested in accordance with **ISO 10326-2:2022**.

SLIM 800 is compliant with the European railway regulations:

UNI ISO 2631-1:2014

EN 61373

UIC 651

EN 16186-1 and EN 16186-8

EN ISO 3385

EN 12663-2

NF F 31-119

NF E 25-030-1 and NF E 25-030-2

NF EN 894-3

NF EN 1005-3

EN ISO 14738

EN 45545

EU Reg. 1302/2014 TSI LOC&PAS