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LAB N° 0424 L

Stuer-Egghe
Industriepark-Noord 17a-23,
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Belgium

Pereto (Italy), 2024, 29th April
Ns. Rif. Prot. N. 0270/24/AQ/SC/sf

Ob Object: VSB surface-placed barrier mod. THE BOSS – Declaration of performance

On March 25th, 2024, AISICO Test House and Laboratory carried out the crash test n. VSB-067 on the vehicle security barrier named **THE BOSS** of the Stuer-Egghe company.

The VSB surface-placed barrier THE BOSS is a system with dimensions: 3010 mm length, 1165 mm wide and 1036 mm height.

The VSB THE BOSS has been successfully tested in accordance with the International Standard ISO 22343:2023, according to the following impact conditions:

- Test type: N3C
- Impact vehicle: Renault Premium
- Vehicle weight: 7350 kg ($7200.0^{\pm 150.0}$ kg)
- Actual impact speed: 48.9 km/h ($48^{+3\%-1\%}$ km/h)
- Actual impact angle: 90.0° ($90.0^{\pm 2}$ deg)
- Actual impact energy: 678.1 kJ.

The VSB surface-placed barrier THE BOSS was deformed by the test vehicle passing over it; the VSB system remained on the wheels of the truck and stopped it at a distance of 24 m according to the datum line defined by the ISO 22343-1:2023 standard.

No major debris were detached from VSB, vehicle or ballast.

The severity indices obtained the following values: ASI = 0.1, THIV = 8.6 km/h.

According to the ISO 22343:2023 Standard, the performance rating of the VSB surface-placed barrier THE BOSS is:

ISO 22343-1: Surface-Placed Barrier V/7200[N3C]/48/90:24.0

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