



Graz, University of Technology
Vehicle Safety Institute

To:

Hr. Markus Ecker-Endl

voestalpine Krems Finaltechnik GmbH
Schmidhüttenstraße 5, Postfach 42
3500 Krems, Austria



Graz University of Technology

Univ.-Prof. Dipl.-Ing.
Dr.techn. Hermann Steffan

Inffeldgasse 23/I
A-8010 Graz

Secretary:
Tel. +43(0)316 873-30301
Fax +43(0)316 873-30302

office.vsi@tugraz.at
www.vsi.tugraz.at

DVR: 008 1833

UID: ATU 574 77 929

Graz, 2025-07-01

Dear Mr. Ecker-Endl,

The terminal „KREMSBARRIER Terminal“ has been successfully crash tested in accordance with the European Standards EN 1317-1:2010, ENV 1317-4:2002 and CEN-TS 1317-7:2024. We can confirm that the terminal has been successfully tested for use as uni-directional terminal - departure (UTD) and thereby achieved the following performance criteria, as detailed in Table 1.

Table 1: Performance Classification for terminal KREMSBARRIER Terminal T110 UTD (EN 1317-1, ENV 1317-4, CEN-TS 1317-7)

Performance Class	Test-Code	Type Test / Test-Report	Impact Speed	Vehicle Mass	Permanent lateral displacement class		Exit Box Class	Impact Severity Class
					ENV1317-4:2002	CEN-TS 1317-7:2024		
T110 UTD	TT5.1.100	VOE21013	100km/h	900kg	x1/y1 ^(*)	S0.5/T0.5	Z1	A
	TT6.3.110	VOE24017	110km/h	1500kg	x1/y1	S0.5/T0.5^(*)	Z1	B

^(*) ... Test was carried out following the respective standard/specification

We hereby confirm the performance against the listed test criteria and that this letter can be issued to a third party for the purpose of demonstrating the compliance with the listed standards.

Yours sincerely,

Dr. Gregor Gstrein
(Testleader of the accredited test laboratory)