

Testing station



BLT Wieselburg is:

- within the European Union a **notified** technical service „EU testing station“ for the EG type approval according 2003/37/EG (type approval and limited type approval, (including as well ROPS and FOPS) of agricultural and forestry tractors).
- a OECD (Organisation for Economic Cooperation and Development) **ap-probated** testing station.
- a **accredited** testing station for roll-over protective structures.
Number of identification: 112



Map of location



BLT Wieselburg education and research centre Francisco Josephinum

Rottenhauser Straße 1
3250 Wieselburg
Phone: +43 (0)7416 52175-0
Fax: +43 (0)7416 52175-45
E-Mail: blt@josephinum.at
Internet: <http://www.josephinum.at>



Accredited testing station for roll-over protective structures



Reliability and load tests for vehicle cabs

ROPS test

The most frequently carried out test is the so called ROPS test (**R**oll-**O**ver-**P**rotective-**S**tructure). The ROPS test simulates a 360° roll-over of the vehicle. For the test of the ROPS structure the loads are applied by hydraulically operated cylinders in horizontal and vertical direction. The test is a static test. The absorption of energies and the resistance against vertically applied downwards forces are tested. The test is passed positive when during the test the clearance zone (“space for the operator to stay alive”) is not entered by any part of the structure or test equipment and the structure has no breakage.



horizontal side load



vertical load

FOPS test

FOPS is the short term for **F**alling-**O**bject-**P**rotective-**S**tructure and marks a safety structure of cabs providing protection against falling objects. For this test a test object (level I, 45 kg or level II, 297 kg) is dropped from a specified drop height onto the cab. The test is passed positive when the clearance zone, marked by the yellow structure, is not penetrated.



FOPS test, level II

Seatbelt anchorage test

For this test the seat belt is tested with a tensile force in forward and rearward in a specified angle in upward direction. The test is passed positive when at the seat belt anchorage and on the driver seat is no functional failure.



seatbelt anchorage test

Standards in force for the respective vehicles

	OECD Code	EG/EWG	ÖNORM EN ISO	ISO	SAE	ANSI/OPEI
Tractors (ROPS, safety structures) static test	4 6 7	2009/75/EG 86/298/EWG 87/402/EWG		ISO 3164	SAE J2194	
Earth-moving machinery (ROPS, FOPS, TOPS, OPS)			EN ISO 3471 EN ISO 3164 EN ISO 3449 EN 13510 EN 13531	ISO 3471 ISO 10262 ISO 12117		
Agricultural and Forestry Tractors (FOPS, OPS)	10			ISO 8084	SAE 1084	
Self-propelled machinery for forestry (ROPS)				ISO 8082 ISO 8082-		
Powered ride-on turf care equipment (ROPS)				ISO 21299		
Operator Restraint System, Seat belt anchorage		76/115/EWG			SAE J384 SAE J385 SAE J386	B71.9-200X