

Ballistics Research – Test Standards

TNO tests according to a wide range of standards, involving topics such as vehicle protection solutions and blast effects but also small caliber protection solutions. The table below gives the test standards that TNO uses most frequently, however other tests according to other standards can also be performed upon request.

List of standards according to which TNO can qualify your protection solution.

STANAG	2920
STANAG	4569 / AEP 55 - Volume 1
STANAG	4569 / AEP 55 - Volume 2
STANAG	2280
DoD USA	MIL-DTL-32262 (MR)
DoD USA	MIL-DTL-32341
DoD USA	MIL-DTL-45225F
DoD USA	MIL-DTL-46027K (MR)
DoD USA	MIL-DTL-46063H
DoD USA	MIL-DTL-46192C (MR)
DoD USA	MIL-DTL-662F
NIJ	0101.04
NIJ	0101.06
NIJ	0108.01
NIJ	0115.00
CEN	prEN ISO 14876-2: 2002 (E)
CEN	prEN ISO 14876-3: 2002 (E)
CEN	EN 1063: 2000
CEN	EN 1522: 1998
CEN	EN 1523: 1998
UL	UL 752
VPAM	BSW 2006
VPAM	KDIW 2004
VPAM	HVN 2009
VPAM	APR 2006
VPAM	PM 2007
TR	
FAA	AC No 25, 795-2
CO/PD	CO/PD 04-19D
ISO/DIS	ISO/DIS 16933
NEN-EN	NEN-EN 13541

Active NATO Involvement

Within the NATO, standards on protection levels of personal protection items as well as military vehicles are constantly under development. TNO takes part in working groups to define standards in relation to these topics. In relation to personal protection standards TNO also leads the working group for the definition of injury criteria and tolerance levels.