
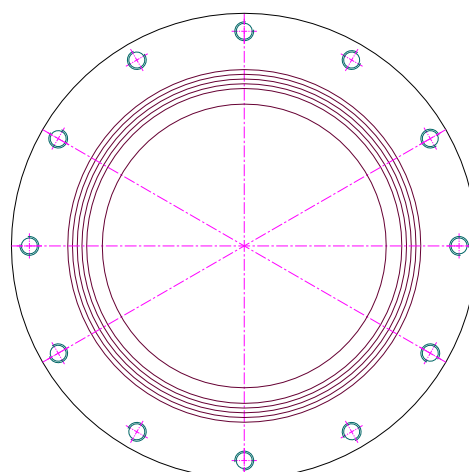
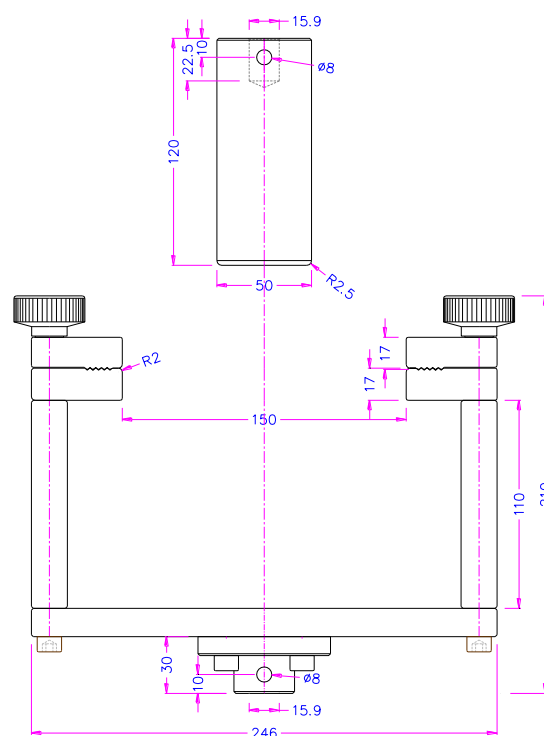
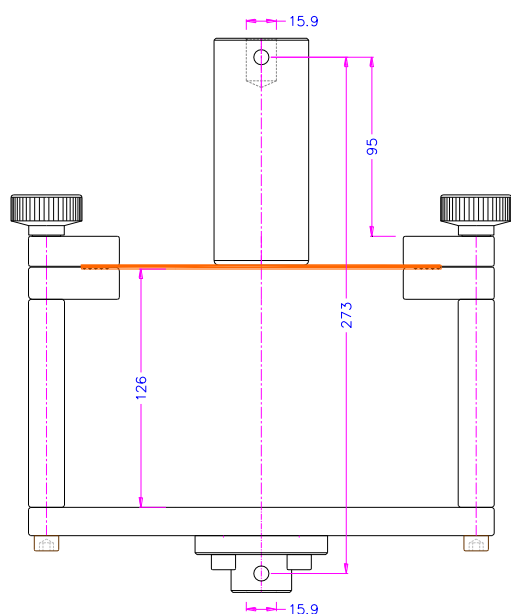


PUNCTURE FIXTURES


to test geotextiles, plastic films, protective clothing, etc. according to ASTM-D6241-B, GOST56335, DIN EN ISO12236, ASTM-D5748.

Item no.:	THS174-D150-F50-V1
Puncture fixture according to ASTM-D6241-B, GOST56335 to test geotextiles	
Max. load:	50 kN
Coupling:	Af159. Further couplings on request.
Body:	Steel, nickel-plated
Plunger:	Steel, hardened, nickel-plated
Temperature range:	0 ... +70°C Further temperature ranges on request
Weight:	19 kg per fixture with Af159 plunger incl. positioning tool
Scope of supply:	1 fixture incl. sample positioning tool

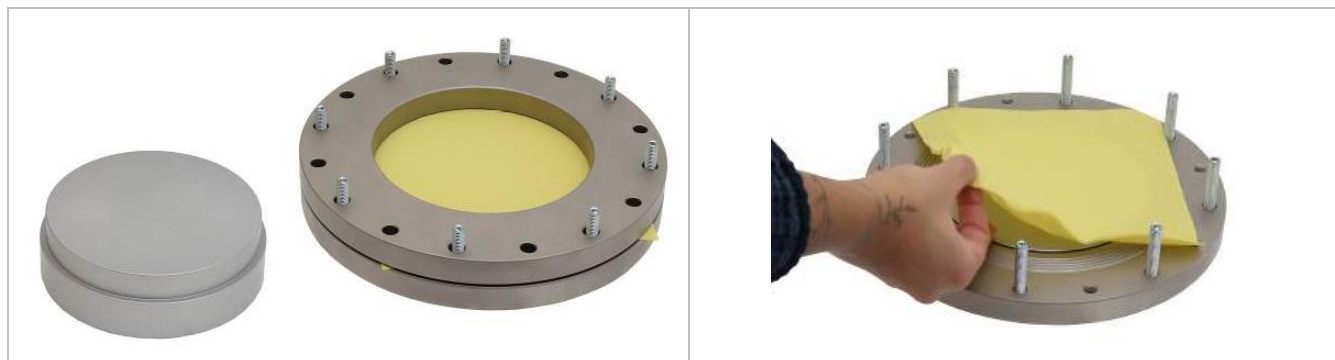




Item no.:	THS174-D150-F50-V2
Puncture fixture according to ASTM-D6241-B , GOST56335 , DIN EN ISO12236 to test geotextiles	
Like THS174-D150-F50-V1 but with a stainless-steel plunger	
Max. load:	50 kN
Coupling:	Af159. Further couplings on request.
Body:	Steel, nickel-plated
Plunger:	Stainless steel
Temperature range:	0 ... +70°C Further temperature ranges on request
Weight:	19 kg per fixture with Af159 plunger incl. positioning tool
Scope of supply:	1 fixture incl. sample positioning tool

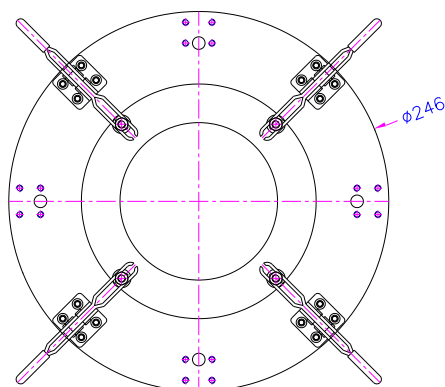
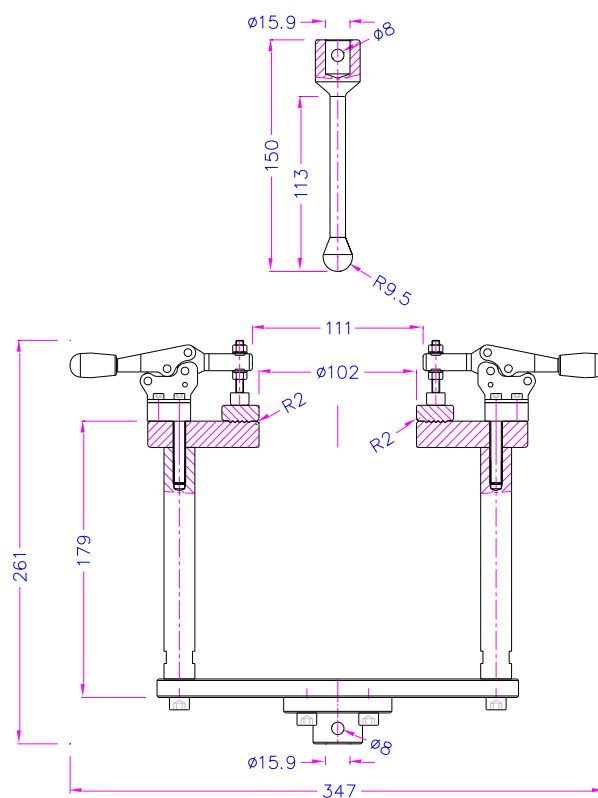


Sample positioning tool for THS174-D150-F50-V1 and THS174-D150-F50-V2:



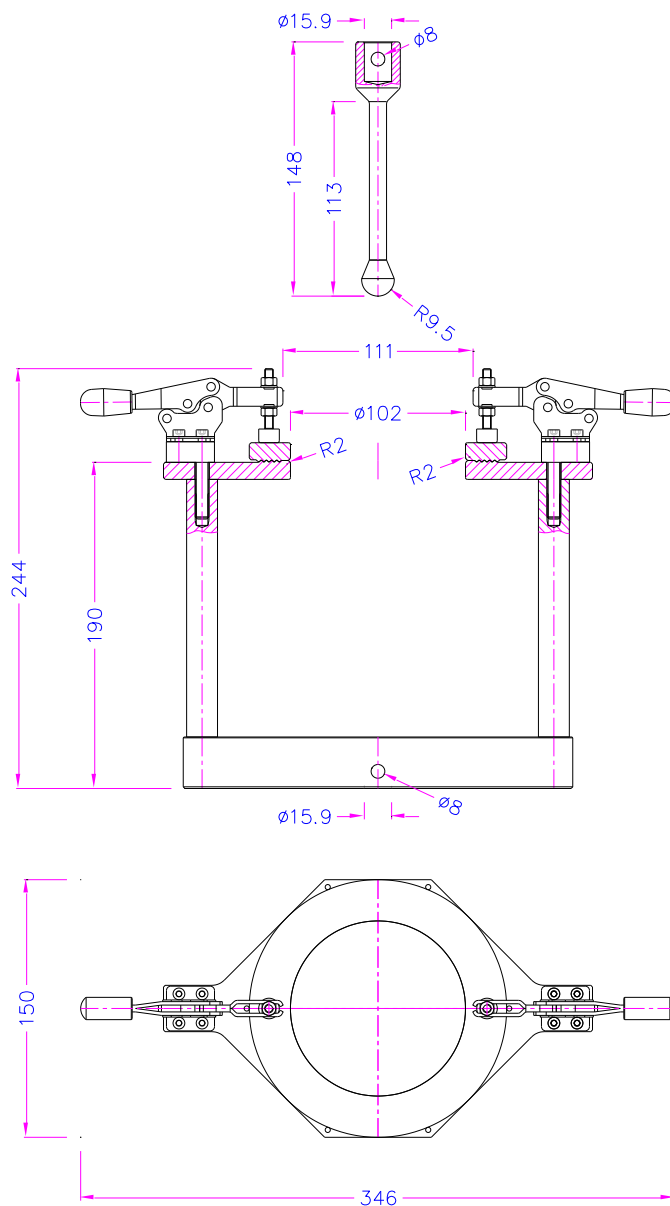
**Puncture fixture according to ASTM-D5748
(Standard version – 8.9 kg)**

Item no.:	THS174-D102-R9.5Te
Puncture fixture according to ASTM-D5748 to determine protrusion puncture resistance of stretch wrap film	
Max. load:	5 kN
Coupling:	Af159. Further couplings on request.
Body:	Steel, nickel-plated
Temperature range:	0 ... +70°C Further temperature ranges on request
Weight:	8.9 kg per fixture with Af159 plunger
Scope of supply:	1 fixture

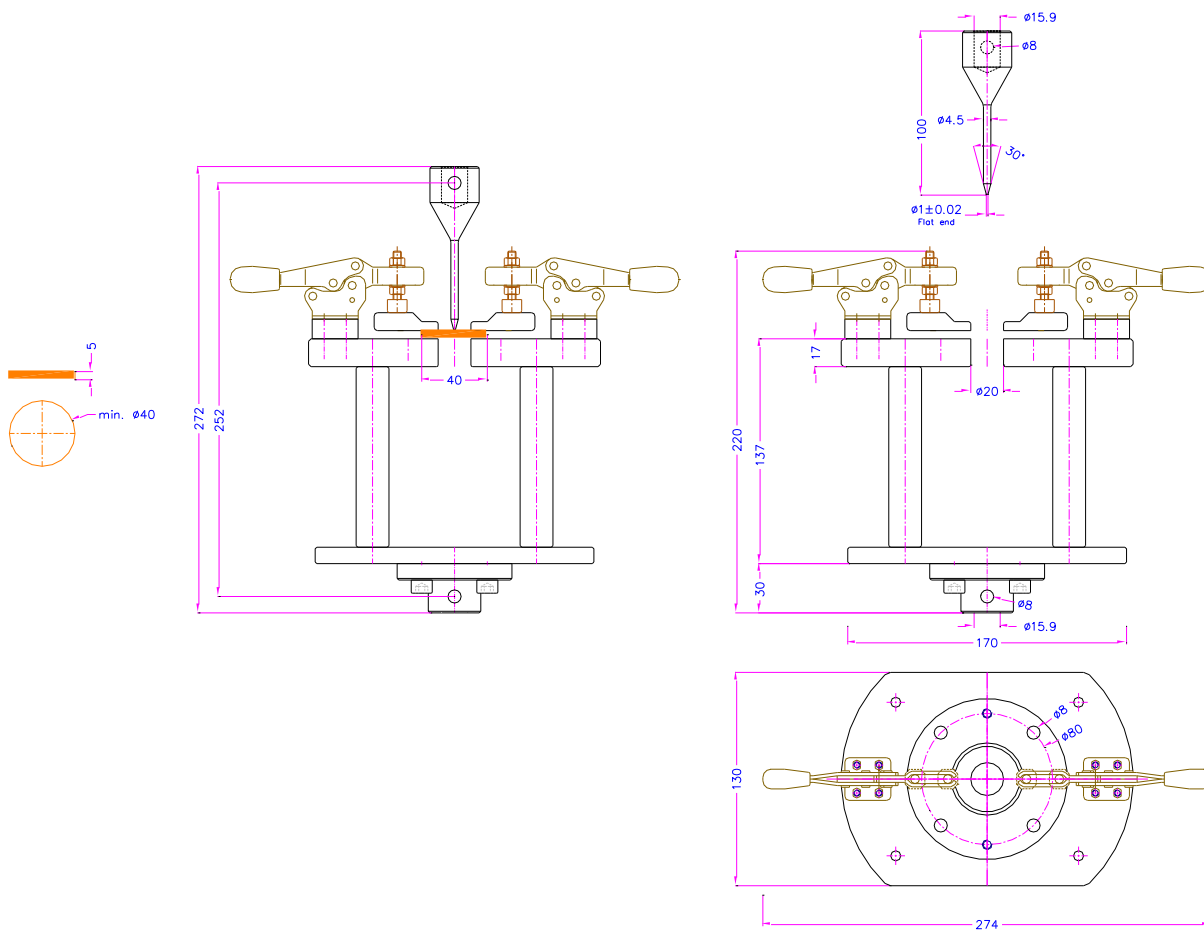
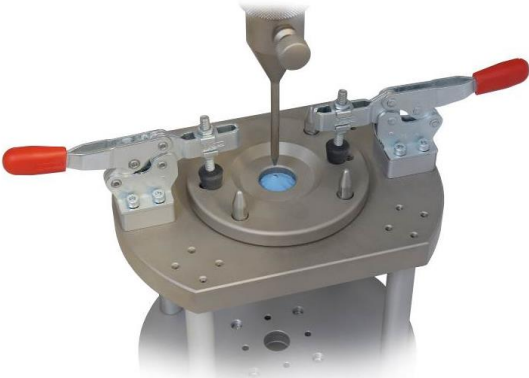


**Puncture fixture according to ASTM-D5748
(Light version – 3.8 kg)**

Item no.:	THS174-D102-R9.5Te-LV
Puncture fixture according to ASTM-D5748 to determine protrusion puncture resistance of stretch wrap film	
Max. load:	5 kN
Coupling:	Af159. Further couplings on request.
Body:	Steel, nickel-plated
Temperature range:	0 ... +70°C Further temperature ranges on request
Weight:	3.8 kg per fixture with Af159 plunger
Scope of supply:	1 fixture



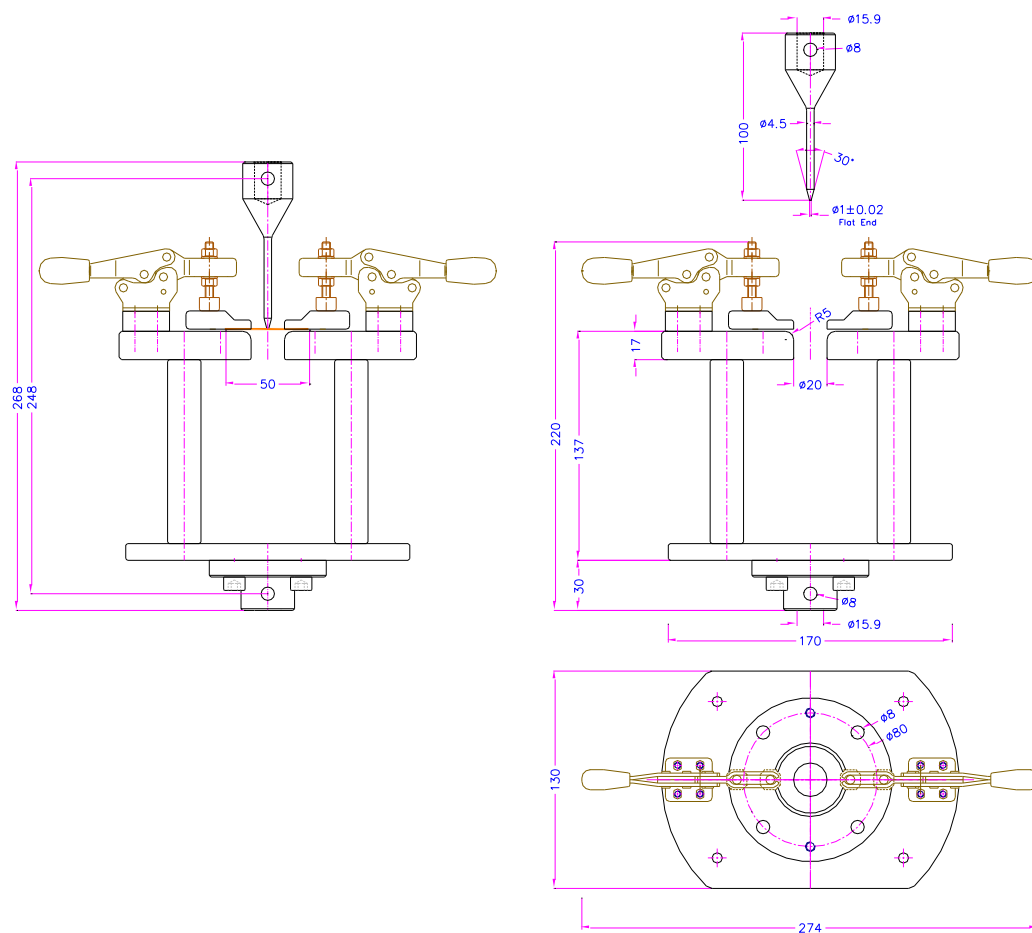
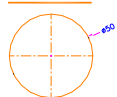
Item no.:	THS174-D20-F1V30-W130-EN388
Puncture fixture according to DIN EN388 to test protective gloves	
Max. load:	20 kN
Coupling:	Af159 or Af20. Further couplings on request.
Body:	Steel, nickel-plated
Temperature range:	0 ... +70°C Further temperature ranges on request
Weight:	4.75 kg per fixture with Af159 probe
Scope of supply:	1 fixture





Item no.:	THS174-D20-F1V30-W130-EN863
Puncture fixture according to DIN EN863 to test protective clothing	
Max. load:	20 kN
Coupling:	Af159 or Af20. Further couplings on request.
Body:	Steel, nickel-plated
Temperature range:	0 ... +70°C Further temperature ranges on request
Weight:	4.8 kg per fixture with Af159 probe
Scope of supply:	1 fixture



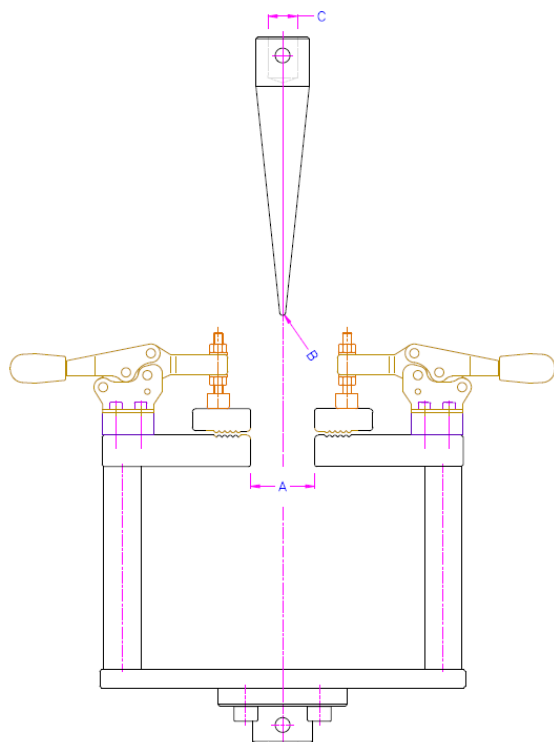
Sample



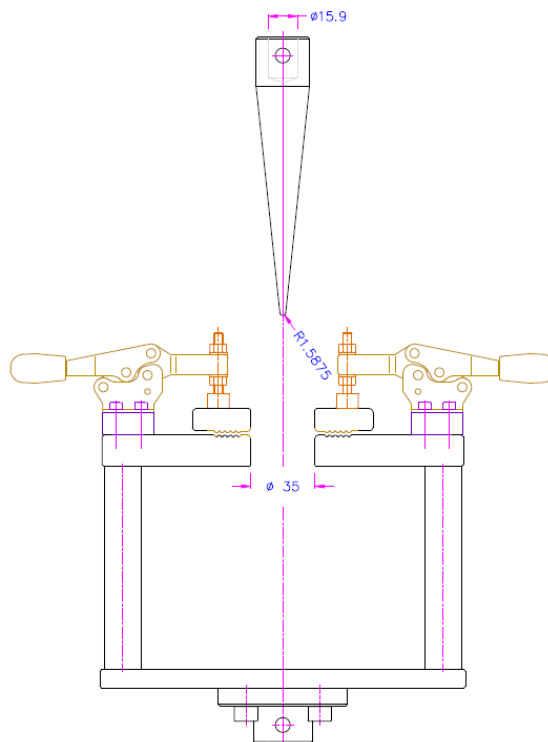
Examples for custom made solutions:

	
<p>THS174-D40-R1 Inserts with 20 mm and 30 mm Ø of hole</p>	<p>THS1598-D35-F15 similar to ASTM-D4032, to determine stiffness of fabric, square design 200x200 mm, aluminium</p>

THS174 Legend:

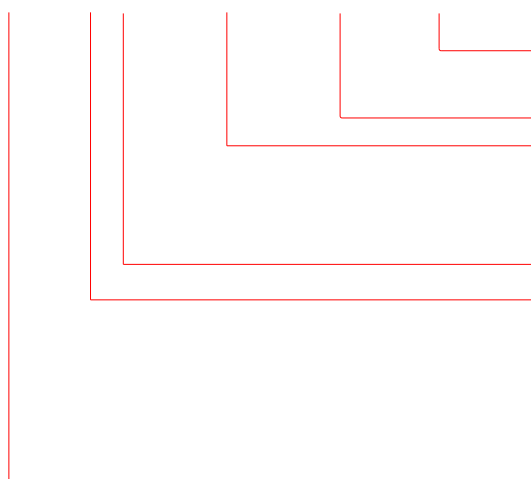


THS174-A-B-C



THS174-D35-R1.5875-Af159

THS174-D20-F1V30-W130-Af159-EN388



test standard or number for special version

A Adapter form and size f: female m: male diameter in mm

W width of grip (important for single column tester)

A: probe tip type

Rx = round tip with milled radius

RxVA = V-shaped milled radius with angle A

KD = probe tip with interchangeable ball D= ball diameter

Fx = flat round tip; x = tip Ø; chamfer = 0 mm;

FAxBxc = flat rectangular tip; AxB = dimensions; c = chamfer size

A: Spitzenform

Rx = Radius aus einem Stück

RxVA = V-Form mit Winkel A

KD = Stößelspitze mit austauschbarer Kugel D= Kugeldurchmesser

Fx = flache runde Spitze; x = Spitzen-Ø; Fase = 0 mm;

FAxBxc = flache rechteckige Spitze; AxB = Abmessungen; c = Fase

D Diameter of the opening

We can offer THS174 fixtures according to many other test standards such as, for example:

ASTM D751

Standard Test Methods for Coated Fabrics

ASTM D1709

Impact Resistance of Plastic Film by the Free-Falling Dart Method

ASTM D3763

High Speed Puncture Properties of Plastics Using Load and Displacement Sensors

ASTM D5494

Determination of Pyramid Puncture Resistance of Unprotected and Protected Geomembranes

ASTM F1342

Protective Clothing Material Resistance to Puncture

DIN EN ISO 20344

Personal protective equipment - Test methods for footwear

DIN EN ISO 7765-1

Plastics film and sheeting - Determination of impact resistance by the free-falling dart method - Part 1: Staircase methods

DIN 53142-1

Testing of board - Puncture test - Part 1: Puncture test with a pendulum punching device

EN 12568

Foot and leg protectors - Requirements and test methods for toecaps and penetration resistant inserts

GOST 13525.8

Fibre intermediate products, paper and board. Method for determination of resistance to bursting

ISO 14704

Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for flexural strength of monolithic ceramics at room temperature

MIL-C-51251A

Cloth, coated; CBR protective

MIL-DTL-6396F

Tanks, fuel, oil, cooling fluids, internal , removable, non-self-sealing