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Test certificate *


The test has been carried out according to **NIJ 0101.04**
class **III**

Assignor Lyra shoe company (pvt) limited
L-14, block 22
75950 Karachi
Pakistan

Experiment date 28-01-2004
Project Vest
Sample identification Lyra Vest model 218 + PE insert

For details see page 2 upto page 3

The sample material does fulfill the ballistic requirements according to class 'III'


T.A. van de Voorde
Project leader

Subject

Ballistic experiments

Date

05-02-2004

Our reference

04BP107

Contact

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The Standard Conditions for Research
Instructions given to TNO, as filed at the
Registry of the District Court and the
Chamber of Commerce in The Hague shall
apply to all instructions given to TNO.

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Test certificate number 04BP107

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Experiment date

28-01-2004

Assignor Lyra shoe company (pvt) limited

Test certificate ***Test results****Description of testmethod**

Establishing the ballistic protection capacity of bulletproof materials according to the requirements specified in the NIJ standard 0101.04. To this end the bulletproof sample was attached to a plastilina block and tested to determine to what extent the requirements concerning the ballistic protection and the indentation in the plastilina (so called trauma) are met. The depth and diameter of the indentation in the plastilina are then determined.

Results

Sample identification : Lyra Vest model 218 + PE insert					
Shotnumber	V-impact (m/s)	Indentation depth x diam. [mm]	Results	Valid (Yes/No)	Obliquity (°NATO)
KKW1 04SN303	847	29 x -	Stopped	Yes	0
KKW1 04SN304	848	30 x -	Stopped	Yes	0
KKW1 04SN305	846	27 x -	Stopped	Yes	0
KKW1 04SN306	847	25 x -	Stopped	Yes	0
KKW1 04SN307	840	27 x -	Stopped	Yes	0
KKW1 04SN308	847	30 x -	Stopped	Yes	0
The sample material does fulfill the ballistic requirements according to class 'III'					

Remarks : none

* This test certificate can not be used as a product certification

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Test certificate number 04BP107

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Experiment date 28-01-2004

Assignor Lyra shoe company (pvt) limited

Sample specifications

Assignor identification : Lyra Vest model 218 + PE insert
TNO identification : 04MB78
Reference number : -
Date of arrival : 22-01-2004
Size : - x - mm²
Thickness : - mm
Weight : 4440 gram
Areal mass : - kg/m²
Composition of sample in direction
as encountered by projectile : Ares PE plate (1297 g.) with Lyra body armour (model
218 nov. 2003)
Remarks : none

Test specifications

Experimental facility : Small Calibre Firing Range no. 1 Ypenburg
Ambient temperature : 22 °C
Relative humidity : 22 %
Conditioning of sample material :
- duration at least : 24 hours
- at temperature : 18 - 24 °C
- at rel. humidity : 60 - 70 %
Temperature of sample during experiment : 18 - 24 °C
Remarks : none

Ballistic specifications

Weapon : SVB 7.62x51 mm
- Barrel length : 655 mm
- Rifling twist : 1:305 Rev.:mm
Projectile : 7.62*51 FMJ Ball (M80)
- Weight : 9.6 gram
- Calibre : 7.62 mm
- Manufacturer : CCI-Speer
Velocity range : 300 - 850 m/s
Distance muzzle to target : 7.80 m

Other specifications

Contract number : 16040
Backing : Caran d'Ache

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