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DP

FOR THE ATTENTION OF: Umad Sheikh

DC 20348/E

SAMPLING: done by the Applicant

TEST REPORTS: this document is based on Test Reports no.: 4409030.01/E, 4131127/E, 4223806/E.

SAMPLES: Footwear for motorcycling, as follows:

- art. "**CE-ETHAN**", all black color, sizes 36, 43 and 48;
- art. "**CE-ETHAN**", black/blue color, not supplied;
- art. "**CE-ETHAN**", black/fluorescent yellow color, not supplied;
- art. "**CE-ETHAN**", black/green color, not supplied;
- art. "**CE-ETHAN**", black/grey color, not supplied;
- art. "**CE-ETHAN**", black/red color, not supplied;
- art. "**CE-ETHAN**", black/white color, not supplied;
- art. "**CE-EMMA**", black/pink color, not supplied.

See the complete description on the next page.

REQUEST: Laboratory tests in accordance with EN 13634:2017 WR for the aim of the Certification (Regulation (EU) 2016/425).

OUTCOME:  **PASS**

Notes:

All results refer exclusively to the tested materials as received.

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Positive results of a test report do not imply that the tested product is "certified" or "approved" by RCT.

Comments and interpretations are of subjective nature and not part of the Test Report.

Test carried out by qualified partner lab ISO 17025.

* Test not accredited by Accredia

Conformity assessment criterion: the result is considered compliant until the value falls within or coincides with the specification limit.

Unless otherwise indicated, the test conditions correspond to the reference standard.

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Description:

article: "CE-ETHAN", all black color. (base model)
fastening system: by means of a dial laces adjustment system and a frontal strap with hook and loop closure;
processing: ago;
outsole: black rubber (RCS);
upper:
- **(1)** black leather (LTHNF) coupled with black fabric (CF);
- **(2a)** black leather (LTHNF) coupled with black fabric (CF) and black EVA foam (EVAS);
- **(10)** black leather (LTHNF) coupled with white rigid reinforcement;
rear joint/collar (3): black coated fabric (SL) coupled with anthracite EVA foam (EVAR);
vamp/rear/quarter lining (4): black mesh (PMF) coupled with grey foam (FM) and black net (PMN);
heel-grip (5): yellow/natural aramid knitting (Y.KEV);
tongue (7): black leather (LTHNF) stitched on black fabric (PFC) and grey foam (FM);
mid-layer: white waterproof membrane (WPM) coupled with black net (PMN);
rear joint insert (8): grey reflective material;
insole: black rigid polymeric material (PLSINS) covered by waterproof layer and the lining;
removable insock (perforated) (9): black EVA foam coupled with black mesh (EVAR+PMF) in contact with the user;
gearshift lever protective insert: black leather (LTHNF) with emboss effect.

The boot has stiff inserts in polymeric material inserted into the upper, as follows:

- internal/external ankle insert: black shield (TPMPLAANK) coupled with grey EVA (EVAR) foam and a different density grey foam;
- toe-tip: white rigid reinforcement.

article: "CE-ETHAN", black/blue color;

This article differs from the base model in the following features:

- upper:
- **(1)** black leather (LTHNF) coupled with black fabric (CF);
 - **(2b)** black leather (LTHNF) with white/blue printing stripes coupled with black fabric (CF) and black EVA foam (EVAS).

article: "CE-ETHAN", black/fluorescent yellow color;

This article differs from the base model in the following features:

- **(1)** black leather (LTHNF) coupled with black fabric (CF);
- **(2b)** black leather (LTHNF) with white/fluorescent yellow printing stripes coupled with black fabric (CF) and black EVA foam (EVAS).

article: "CE-ETHAN", black/green color;

This article differs from the base model in the following features:

- **(1)** black leather (LTHNF) coupled with black fabric (CF);
- **(2b)** black leather (LTHNF) with white/green printing stripes coupled with black fabric (CF) and black EVA foam (EVAS).

article: "CE-ETHAN" black/grey color;

This article differs from the base model in the following features:

- **(1)** black leather (LTHNF) coupled with black fabric (CF);
- **(2b)** black leather (LTHNF) with white/grey printing stripes coupled with black fabric (CF) and black EVA foam (EVAS).

article: "CE-ETHAN", black/red color;

This article differs from the base model in the following features:

- **(1)** black leather (LTHNF) coupled with black fabric (CF);
- **(2b)** black leather (LTHNF) with white/red printing stripes coupled with black fabric (CF) and black EVA foam (EVAS).



article: "**CE-ETHAN**", black/white color;

This article differs from the base model in the following features:

- **(1)** black leather (LTHNF) coupled with black fabric (CF);
- **(2b)** black leather (LTHNF) with white printing stripes coupled with black fabric (CF) and black EVA foam (EVAS).

article: "**CE-EMMA**" black/pink color;

This article differs from the base model in the following features:

- **(1)** black leather (LTHNF) coupled with black fabric (CF);
- **(2b)** black leather (LTHNF) with white/pink printing stripes coupled with black fabric (CF) and black EVA foam (EVAS).

The material combinations of the footwear for the impact abrasion and cut resistance tests are the following ones:

- A) 1 + 4 (area B);
- B) 2 + 4 (area A and B);
- C) 10 + 5 (area B);
- D) 3 + 4 (area A and B).

List of materials tested for Azo-dyes content:

LTHNF black, Y.KEV yellow/natural, FC black, SRRM grey reflective, SL black, PMF black.



References	Tests	Measuring unit	Requirements	Results		
				36	43	48
EN 13634:2017	Protective footwear for motorcycle riders					
4.2	Design					
4.2.1 (Table 2)	Height of upper (Level 1) Measure "H2" - right - left Measure "H1" - right - left	mm mm	size/height ≤ 36 / ≥ 103 43-44 / ≥ 117 ≥ 45 / ≥ 121 ≤ 36 / ≥ 64 43-44 / ≥ 72 ≥ 45 / ≥ 73	146 146 139 139	167 167 153 153	176 176 161 161
4.3	Whole footwear					
4.3.1 (EN ISO 20344:2011 p. 5.2)	Upper/outsole bond strength (if not stitched)	N/mm	$\geq 4,0$ (If sole tear $\geq 3,0$)	8,3 (100% outsole delamination)	8,0	7,8
4.3.2 (ISO/TR 16178:2010*)	Innocuousness	-	Shall not adversely affect the health or the hygiene of the user	Pass		
ISO 14362-1:2017#* textile	Azo colorants content:	mg/kg	absent (<30 mg/kg)	Pass		
ISO 17234-1:2020#* leather	Azo colorants content:	mg/kg	absent (<30 mg/kg)	Pass		
4.4	Upper					
4.4.1 (EN ISO 4045:2018)	pH value (leather) differential figure (if pH < 4)	- -	$\geq 3,2$ $< 0,7$	Material: 1 4,15 -		
4.2/a EN ISO 17075-2:2017 #*	Chromium VI content (leather)	mg/kg	$\leq 3,0$	Material: 1 < 3		
4.4.4 Table 4 (EN 13595-2:2002)	Impact abrasion resistance - Zone A - Zone B	s s	Level 1 $\geq 1,5$ ≥ 5 Level 2 $\geq 2,5$ ≥ 12	A - 27,0	Combination: B >30 >30	C - >30 D 22,4 22,4



References	Tests	Measuring unit	Requirements		Results			
					36	43	48	
4.4.5 Table 6 (EN 13595-4:2002)	Impact cut resistance		Level 1	Level 2	Combination:			
	- Zone A (2,0 m/s)	mm	≤ 25	≤ 25	A	B	C	D
	- Zone B (2,8 m/s)	mm	≤ 25	≤ 15	-	-	-	-
4.5	Lining				0,4	0	0	2,9
4.5.2 (EN ISO 20345:2011 p. 5.5.1 EN ISO 20344:2011 p. 6.3 ISO 3377-2:2016 EN ISO 4674-1:2003 Met. B)	Tear strength				Material:			
	- Leather	N	≥ 30		4			5
	- Coated fabric and textile	N	≥ 15		-			-
4.5.3 (EN ISO 20344:2011 p. 6.12)	Abrasion resistance				Material:			
	- 25 600 cycles dry	-	No hole development on the wearing surface		4			5
	- 12 800 cycles wet	-			Pass			Pass
4.5.6 (EN ISO 11642:2012)*	Color fastness				Material:			
	- Discharge				4			5
	a) Acetate		≥ 3		5			5
	b) Cotton	Grey Scale*	≥ 3		5			5
	c) Polyamide		≥ 3		4/5			4/5
	d) Polyester		≥ 3		5			4/5
	e) Polyacrylic		≥ 3		5			5
4.6	Outsole							
	Outsole thickness d ₁	mm	≥ 4,0		5,0	5,3		5,4
	Cleated outsole							
4.6.1 (EN ISO 20344:2011 p. 8.1.2)	- Cleat height d ₂	mm	≥ 2,5		-	-		-
	- Cleats design	-	cleats within the shaded area of fig.4 shall be open to the side (45%L/forepart, 25%L/heel)		-	-		-
ISO 2781:2008 Amd 1:2010	Outsole density (method A)	g/cm ³	-		1,11			



References	Tests	Measuring unit	Requirements	Results		
				36	43	48
4.6.2 ISO 4649:2017 (method A)	Abrasion resistance - material with density > 0,9 g/cm ³ - material with density ≤ 0,9 g/cm ³	mm ³ mm ³	≤ 150 ≤ 250	78 -	82 -	81 -
4.7 (Annex A)	Ergonomics		Pass	Pass	Pass	Pass
4.8 (6.1)	Transverse rigidity of the whole footwear - right - left	kN	Level 1 ≥ 1,0 Level 2 ≥ 1,5	2,0 1,9	1,8 1,7	1,6 1,7
4.9 (Table 7)	Insole construction	-	Either an insole or insock shall be present in such a way that it cannot be removed without damaging the Footwear (see acceptable options as detailed in Table 7).	Pass	Pass	Pass
4.10	Insole and insock					
	Insole					
EN ISO 20345:2011 p. 5.7.1	Thickness	mm	≥ 2,0	2,4		
4.10.2.1 (EN ISO 20345:2011 5.7.4.1) (EN ISO 20344:2011 p. 7.3 - 7.3.6)*	Abrasion resistance "Veslic" 400 cycles	-	Abrasion damage shall not be more severe than that illustrated by the reference test pieces (CEN TC 161)	Pass		
	Insock					
4.10.2.2 (EN ISO 20345:2011 p. 5.7.4.2) (EN ISO 20344:2011 p. 6.12)	Abrasion resistance - 25 600 cycles dry - 12 800 cycles wet	- -	No hole development on the wearing surface	Pass Pass		



References	Tests	Measuring unit	Requirements	Results		
				36	43	48
-	Protective levels to be marked: - Height of upper - Abrasion resistance: - Impact cut resistance: - Transverse rigidity:	- - - -	1/2 1/2 1/2 1/2		1 2 2 2	
5	Optional requirements					
5.2 (EN ISO 20345:2011 p. 6.2.5)	Resistance to water penetration "WR"					
	Total wetted area inside the footwear:					
(EN ISO 20344:2011 5.15.1)*	After 100 trough lengths					
	- right	cm ²	≤ 3	-	-	-
	- left	cm ²	≤ 3	-	-	-
(EN ISO 20344:2011 5.15.2)	or after 80 minutes					
	- right	cm ²	≤ 3	0	0	0
	- left	cm ²	≤ 3	0	0	0

- End of the Technical Report -