



RED FORT™ FOOTWEAR



Direct Injected PU Sole



Available in Sizes - UK 05 to 12

RFFW - 621

EN ISO:20345 S3 SRC

The product is tested & certified by INTERTEK



Article:	: RFFW-621
Operative Standard	: IS: 15298(PART-2);2011 AND EN ISO:20345
Safety Class	: S3 SRC
Construction	: Single Density Direct Injection Molded Pu Sole
Description	: High Ankle Shoe, Genuine Printed Leather (water Resistant), 200J Steel Toe, Single Density Direct Injection Molded PU Sole With Anti-perforation Textile Insole
Suggested Environments	: Building, Agriculture, Mines, Mining Platforms, Heavy Industry, Mountain, Chemistry, Petrochemical Industry, Oil And Gas Industry, Light Industry, Craft, Big Installations, Automotive, Automated Lines, Yard



COMPONENTS	DESCRIPTION
Upper Leather	Genuine Printed leather 1.8-2.0 mm thickness (Water Resistant)
Vamp Lining	Non-woven 270 GSM
Inner Lining	Grey Spacer
Tongue	Synthetic Leather with 6mm PU Foam.
Collar	Synthetic Leather with 14mm PU Foam.
Counter Stiffener	Thermoplastic Sheet 2mm Thickness
Insole	Anti-Perforation Textile Insole
Toe Cap	Steel toe cap - 200 J impact Resistance
Padding Under Steel Toe	Polymer Strip for comfort
Outsole	Single Density Direct Injected PU with Desma Machine. The Sole has Anti Slip Design, Oil/ Chemical Resistant, Antistatic properties
Heat Resistance(HRO)	Up to 120 °C for 1 minute
Electrical Property	Resistance between 100 Kilo ohms to 1000 Mega ohms
In Socks	Molded EVA with Textile Laminated 6mm Thickness
Fastening	Laces
Sizes	UK Range 05 to 12
Certification Organisation	INTERTEK

Cleaning And Maintenance : Use Only Soft Brushes And Water. Do Not Use Substances Like Alcohol, Thinners, Gasoline, Oil Or Any Other Chemicals. Keep The Footwear, Dry And Clean, In A Proper Place At Room Temperature.

Shree Balaji Enterprise
AN ISO 9001:2008, SSI & NSIC, CRISIL RATED COMPANY

(Manufacturer of : Industrial Work Wear, Safety Clothing, Safety Shoes Fire protection clothing and Technical Textiles)

B22/23, First Floor, Bardan Gali, Next to hanuman temple, Behind Jungleshwar mandir,
Asalpha, Ghatkopar (W), Mumbai-400084, Maharashtra, INDIA.

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EU Type Examination Certificate



Approved Body 0362

The safety footwear detailed herein meets the criteria of an EU Type Examination in accordance with Annex V of the PPE Regulation EU 2016/425 for Category II products.

This has been shown through satisfactory testing to EN ISO 20345: 2011 and examination of the Technical File Documentation.

Following an EU Declaration of Product Conformity, you are hereby licensed to mark the product(s) detailed in accordance with Article 17 of the PPE Regulation EU 2016/425

ITS Testing Services (UK) Ltd.
Centre Court
Meridian Business Park
Leicester, LE19 1WD
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www.intertek.com

Issued to : Shree Balaji Enterprise
B22/23, First Floor, Bardan Gali, Next to hanuman temple,
Behind Jungleshwar mandir, JMM Road, Asalpha,
Ghatkopar (W), Mumbai-400084, Maharashtra, INDIA

Original Date of Issue : 07 September 2018

Issue Date : 29 October 2018

Expiry Date : 07 September 2023

Certificate No. : LEC FI00372808 ISSUE 2

Product Reference(s) : RFFW-521 & RFFW-621

Description : Safety Footwear under Brand name Red Fort Foot wear

Description	: Construction	: Direct Injection Process
	Toecap	: STEEL TOE CAP 200J
	Midsole	: Anti-perforation Kevlar Insole
	Last	: 12568
	Sole	: PU
	Mould	: 3959
	Test Report(s)	: See Technical File
	Size Range	: 05-12
	Category	: S3 SRC


Assessor

29/10/2018

Date


Certification Manager

29/10/2018

Date

For and on behalf of ITS Testing Services (UK) Limited

Registered in England No. 1408204 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex. CM14 5NQ

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Certificate No. TC-5663(in lieu of T-0552, T-0553)

NUMBER : DELF18004074-A-REV1

DATE : 21ST JUNE,2018

TEST REPORT

PHOTO



DELF18004074



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TEST REPORT

APPLICANT: **Shree Balaji Enterprise**
B-22/23, First Floor, Bardan Gali,
Next to hanuman temple,
Behind Jungleshwar mandir,
JMM Road, Asalpha, Ghatkopar (W),
Mumbai, Maharashtra, India -400084

ATTN: **Mr. Sachin Kherodia**

SAMPLE DESCRIPTION	:	THE SUBMITTED SAMPLE SAID TO BE SAFETY FOOT WEAR UNDER THE BRAND NAME RED FORT FOOT WEAR.
DATE RECEIVED	:	27 th April,2018
BUYER NAME	:	-
STYLE NO.	:	DESIGN -A : RFFW-521 DESIGN -B : RFFW-621
SIZE	:	5,8,12
CATEGORY	:	S3 SRC
COLOUR	:	BLACK
UPPER	:	GENUINE PRINTED LEATHER (WATER RESISTANT)
VAMP LINING	:	WHITE NON-WOVEN
QUARTER / SEAT REGION LINING	:	GREY SPACER
TONGUE	:	BLACK SYNTHETIC LEATHER WITH 6MM PU FOAM
COLLAR	:	BLACK SYNTHETIC LEATHER WITH 14MM PU FOAM
INSOLE	:	WHITE ANTI-PERFORATION KEVLAR INSOLE
INSOCK	:	BLACK EVA MOULDED WITH TEXTILE LAMINATED
OUTSOLE	:	BLACK PU
PENETRATION INSERT	:	WHITE ANTI-PERFORATION KEVLAR INSOLE
TOE CAP	:	GREY STEEL 200 J
END USE	:	SAFETY FOOTWEAR
MANUFACTURE NAME	:	-

TESTS CONDUCTED : As per the Applicant's request. For further details, please refer to the enclosed pages

CONCLUSION:

1	DESIGN HEIGHT OF UPPER	M
2	DESIGN: SEAT REGION	M
3	CONSTRUCTION	M
4	UPPER/OUTSOLE BOND STRENGTH	M
5	GENERAL	M
6	INTERNAL LENGTH OF TOE CAP	M
7	IMPACT RESISTANCE	M
8	COMPRESSION RESISTANCE	M

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9	BEHAVIOUR OF TOE CAPS – CORROSION TEST	M
10	ERGONOMIC FEATURES	M
11	SLIP RESISTANCE (SRC)	M
12	TEAR STRENGTH- UPPER LEATHER	M
13	WATER VAPOUR PERMEABILITY & WATER VAPOUR CO-EFFICIENT –UPPER	M
14	PH- VALUE- UPPER	M
15	CHROMIUM VI- UPPER	M
16	TEAR STRENGTH- VAMP LINING	M
17	MARTINDALE ABRASION - VAMP LINING	M
18	WATER VAPOUR PERMEABILITY & WATER VAPOUR CO-EFFICIENT - VAMP LINING	M
19	TEAR STRENGTH- QUARTER LINING	M
20	MARTINDALE ABRASION - QUARTER LINING / SEAT REGION LINING	M
21	WATER VAPOUR PERMEABILITY & WATER VAPOUR CO-EFFICIENT - QUARTER LINING	M
22	WATER ABSORPTION & DESORPTION - INSOCK (FULL INSOCK, REMOVABLE & WATER PERMEABLE)	M
23	MARTINDALE ABRASION – INSOCK (FULL INSOCK, REMOVABLE & WATER PERMEABLE)	M
24	THICKNESS (INSOLE)	M
25	WATER ABSORPTION & DESORPTION - INSOLE	M
26	ABRASION RESISTANCE – INSOLE	M
27	NAIL PENETRATION RESISTANCE (AFTER FIVE ENVIRONMENTAL TREATMENTS)	M
28	DESIGN : THICKNESS OF CLEATED OUTSOLE	M
29	DESIGN : CLEATED AREA OUT SOLE	M
30	DESIGN : CLEAT HEIGHT	M
31	TEAR STRENGTH- OUTSOLE	M
32	ABRASION RESISTANCE- OUTSOLE	M
33	FLEXING RESISTANCE -OUTSOLE	M
34	HYDROLYSIS TEST-OUTSOLE	M
35	PENETRATION RESISTANCE - DETERMINATION OF PENETRATION FORCE -COMPLETE FOOTWEAR	M
36	FLEXING ENDURANCE –INSOLE	M
37	ANTISTATIC FOOTWEAR	M



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38	ENERGY ABSORPTION OF SEAT REGION	M
39	WATER PENETRATION & WATER ABSORPTION - UPPER LEATHER	M
40	RESISTANCE TO FUEL OIL (OUTSOLE)	M
41	AZO-DYES	M

NOTE: **M = Meet buyer's requirement,**
***= Not Provided,**

F = Does Not Meet buyer's requirement
NA = Not Applicable

REMARK: THE TEST REPORT NO. DELF18004074-A DATED 11 JUNE, 2018 HAS BEEN REVISED TO CHANGE THE SAMPLE DESCRIPTION AS PER APPLICANT REQUEST.

AUTHORIZED BY
FOR INTERTEK INDIA PRIVATE LIMITED [FOOTWEAR]

SURJIT SINGH
DEPUTY MANAGER



Certificate No. TC-5663(in lieu of T-0552, T-0553)

NUMBER : DELF18004074-A-REV1

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DATE : 21ST JUNE,2018

1. DESIGN: HEIGHT OF UPPER						
ISO 20345:2011,CLAUSE NO-5.2.2						
		RESULTS				
STYLE NO.	SIZE: 5		SIZE: 8		SIZE: 12	
RFFW-521	DESIGN: A	82.3 mm	DESIGN: A	90.2 mm	DESIGN: A	106.3 mm
REQUIREMENT	<105 mm		<113 mm		<121mm	
RFFW-621	DESIGN: B	113.9 mm	DESIGN: B	132.0 mm	DESIGN: B	139.8 mm
REQUIREMENT	105 mm(Min.)		113 mm (Min.)		121mm (Min.)	
2. DESIGN: SEAT REGION						
ISO 20345:2011,CLAUSE NO-5.2.3						
		RESULTS				
STYLE NO.	SIZE: 5		SIZE: 8		SIZE: 12	
RFFW-521	SEAT REGION IS CLOSED. NO HOLES OTHER THAN SEAMS OBSERVED BELOW THE MINIMUM HEIGHT.		SEAT REGION IS CLOSED.NO HOLES OTHER THAN SEAMS OBSERVED BELOW THE MINIMUM HEIGHT.		SEAT REGION IS CLOSED.NO HOLES OTHER THAN SEAMS OBSERVED BELOW THE MINIMUM HEIGHT.	
RFFW-621	SEAT REGION IS CLOSED		SEAT REGION IS CLOSED		SEAT REGION IS CLOSED	
REQUIREMENT	THE SEAT REGION SHALL BE CLOSED					
3. CONSTRUCTION						
ISO 20345:2011,CLAUSE NO-5.3.1.1						
		RESULTS				
STYLE NO.	SIZE: 5		SIZE: 8		SIZE: 12	
RFFW-521	REQUIREMENT MEET		REQUIREMENT MEET		REQUIREMENT MEET	
RFFW-621	REQUIREMENT MEET		REQUIREMENT MEET		REQUIREMENT MEET	
REQUIREMENT	INSOLE SHALL BE PRESENT IN SUCH A WAY THAT IT CANNOT BE REMOVED WITHOUT DAMAGING THE FOOTWEAR.					



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4. UPPER/OUTSOLE BOND STRENGTH						
ISO:20345:2011,CLAUSE NO-5.3.1.2						
STYLE NO.	RESULTS					
RFFW-521	SIZE: 5		SIZE: 8		SIZE: 12	
	4.2 N/mm*		3.7 N/mm*		3.8 N/mm*	
REMARK	*=- TEARING OF SOLEING MATERIAL					
REQUIREMENT	3.0 N/mm (Min.)					
5.GENERAL						
ISO 20345:2011,CLAUSE NO.5.3.2.1						
STYLE NO.	RESULTS					
RFFW-621	SIZE: 5		SIZE: 8		SIZE: 12	
	PASS		PASS		PASS	
	VAMP LINING PRESENT		VAMP LINING PRESENT		VAMP LINING PRESENT	
	BENEATH TOE CAP- 10.2 mm		BENEATH TOECAP 10.0 mm		BENEATH TOECAP 10.2 mm	
	BEHIND TOECAP 13.7 mm		BEHIND TOECAP 13.8 mm		BEHIND TOECAP 13.9 mm	
	WIDHT OF FLANGE: 5.9 mm		WIDHT OF FLANGE: 6.1 mm		WIDHT OF FLANGE: 6.4 mm	
REQUIREMENT	THE TOE CAP CANNOT BE REMOVED WITHOUT DAMAGING THE FOOTWEAR. FOOTWEAR SHALL HAVE A VAMP LINING. EDGE COVERING BENEATH TOE-CAP: 5 mm (Min.) EDGE COVERING BEHIND TOE-CAP: 10 mm (Min.) WIDHT OF FLANGE: 10 mm (Max.)					
6. INTERNAL LENGTH OF TOE CAP						
ISO 20345:2011,CLAUSE NO-5.3.2.2						
STYLE NO.	RESULTS					
RFFW-621	SIZE: 5		SIZE: 8		SIZE: 12	
	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT
	36.2 mm	36.4 mm	40.0 mm	40.4 mm	45.3 mm	45.1 mm
REQUIREMENT	36 mm (MIN.)		39 mm(MIN.)		42 mm(MIN.)	



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7. IMPACT RESISTANCE						
ISO 20345:2011,CLAUSE NO-5.3.2.3						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
STYLE NO.	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT
RFFW-621	18.7 mm	16.4 mm	22.0 mm	20.0 mm	20.0 mm	21.2 mm
REQUIREMENT	13.0 mm (Min.)		14.0 mm (Min.)		15.0 mm(MIN.)	
8. COMPRESSION RESISTANCES						
ISO 20345:2011,CLAUSE NO-5.3.2.4						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
STYLE NO.	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT
RFFW-621	17.5 mm	17.0 mm	16.5 mm	16.2 mm	18.6 mm	17.2 mm
REQUIREMENT	13.0 mm (Min.)		14.0 mm (Min.)		15.0 mm(MIN.)	
9. BEHAVIOUR OF TOE CAPS - CORROSION TEST						
ISO 20345:2011, CLAUSE NO. 5.3.2.5.1						
	SIZE: 5		SIZE: 8		SIZE: 12	
	NO CORROSION		NO CORROSION		NO CORROSION	
REQUIREMENT	SHALL EXHIBIT NO MORE THAN THREE AREAS OF CORROSION, NONE OF WHICH SHALL MEASURE >2 MM IN ANY DIRECTION					



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10. ERGONOMIC FEATURES						
ISO 20345:2011,CLAUSE NO-5.3.4						
	RESULTS					
STYLE NO.	SIZE: 5		SIZE: 8		SIZE: 12	
RFFW-521	REQUIREMENT MEET		REQUIREMENT MEET		REQUIREMENT MEET	
RFFW-621	REQUIREMENT MEET		REQUIREMENT MEET		REQUIREMENT MEET	
REQUIREMENT	ALL ANSWERS TO THE QUESTIONNAIRE SHALL BE POSITIVE					
REMARK:	<p>YES = ALL THE ANSWERS ARE POSITIVE IN THE QUESTIONNAIRE AS BELOW:</p> <p>QUESTION 1: IS THE INSIDE SURFACE OF THE FOOTWEAR FREE FROM ROUGH, SHARP OR HARD AREAS THAT CAUSED YOU IRRITATION OR INJURY?</p> <p>QUESTION 2: ARE THERE NO PINCH POINT CAUSED BY TOE- CAP OR THE EDGE COVERING OF THE TOECAP?</p> <p>QUESTION 3: IS THE FOOTWEAR FREE OF FEATURES THAT CONSIDER TO MAKE WEARING THE FOOTWEAR HAZARDOUS?</p> <p>QUESTION 4: CAN THE FASTENING BE ADEQUATELY ADJUSTED (IT NECESSARY)?</p> <p>QUESTION 5: CAN THE FOLLOWING ACTIVITIES BE PERFORMED WITHOUT PROBLEMS</p> <p style="margin-left: 40px;">I. WALKING</p> <p style="margin-left: 40px;">II. CLIMBING STAIRS</p> <p style="margin-left: 40px;">III. KNEELING/CRUNCHING DOWN</p>					
11. SLIP RESISTANCE (SRC)						
ISO 20345:2011, CLAUSE NO-5.3.5.2						
	RESULTS					
STYLE NO.	SIZE: 5		SIZE: 42		SIZE: 12	
RFFW-621	CONDITION-A (FORWARD HEEL SLIP)	CONDITION-B (FORWARD FLAT SLIP)	CONDITION-A (FORWARD HEEL SLIP)	CONDITION-B (FORWARD FLAT SLIP)	CONDITION-A (FORWARD HEEL SLIP)	CONDITION-B (FORWARD FLAT SLIP)
	0.30	0.32	0.29	0.33	0.29	0.32
	CONDITION-C (FORWARD HEEL SLIP)	CONDITION-D (FORWARD FLAT SLIP)	CONDITION-C (FORWARD HEEL SLIP)	CONDITION-D (FORWARD FLAT SLIP)	CONDITION-C (FORWARD HEEL SLIP)	CONDITION-D (FORWARD FLAT SLIP)
	0.15	0.20	0.16	0.19	0.15	0.18
REQUIREMENT	<p>CONDITION-A (FORWARD HEEL SLIP): 0.28 (MIN.)</p> <p>CONDITION-B (FORWARD FLAT SLIP): 0.32 (MIN.)</p> <p>CONDITION-C (FORWARD HEEL SLIP): 0.13 (MIN.)</p> <p>CONDITION-D (FORWARD FLAT SLIP): 0.18 (MIN.)</p>					



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12. TEAR STRENGTH -UPPER			
ISO 20345:2011,CLAUSE NO.5.4.3			
		RESULTS	
	SIZE:5	SIZE:42	SIZE: 12
LEATHER	223.0 N	223.0 N	226.0 N
NON LEATHER	61.0 N	61.3 N	60.6 N
REQUIREMENT	FOR LEATHER :120 N(Min.) TEXTILE AND COATED FABRIC:60 N(Min.)		
13. WATER VAPOUR PERMEABILITY -UPPER			
ISO 20345:2011,CLAUSE NO.5.4.6			
		RESULTS	
	SIZE:5	SIZE:42	SIZE: 12
LEATHER	2.1 mg/cm ² .h	2.1 mg/cm ² .h	1.9 mg/cm ² .h
NON LEATHER	3.4 mg/cm ² .h	3.2 mg/cm ² .h	3.1 mg/cm ² .h
REQUIREMENT	0.8 mg/cm ² .h (MIN)		
WATER VAPOUR CO-EFFICIENT-UPPER			
ISO 20345:2011,CLAUSE NO.5.4.6			
		RESULTS	
	SIZE:5	SIZE:42	SIZE: 12
LEATHER	19.1 mg/cm ²	18.9 mg/cm ²	17.4 mg/cm ²
NON LEATHER	28.2 mg/cm ²	26.8 mg/cm ²	25.8 mg/cm ²
REQUIREMENT	15 mg/cm ² (MIN)		
14. PH VALUE - UPPER LEATHER			
ISO 20345:2011,CLAUSE NO.5.4.7			
		RESULTS	
	SAMPLE :1	SAMPLE :2	
	4.2	4.2	
REQUIREMENT	MIN. 3.20, IF BELOW 4.00, MAX. DIFFERENCE 0.70		
15. CHROMIUM VI- UPPER LEATHER			
ISO 20345:2011,CLAUSE NO.5.4.9			
		SAMPLE :1	SAMPLE :2
		ND	ND
REQUIREMENT	< 3.0 mg/kg		
REMARK:	< = LESS THAN PPM = PARTS PER MILLION = mg/kg DETECTION LIMIT = 1 ppm ND = NOT DETECTED		



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16. TEAR STRENGTH- VAMP LINING ISO 20345:2011,CLAUSE NO.5.5.1						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	72.3 N		73.3 N		71.3 N	
REQUIREMENT	15 N (MIN)					
17. MARTINDALE ABRASION - VAMP LINING ISO 20345:2011,CLAUSE NO-5.5.2						
	RESULT					
	SIZE: 5		SIZE: 8		SIZE: 12	
	DRY	WET	DRY	WET	DRY	WET
	NO HOLE	NO HOLE	NO HOLE	NO HOLE	NO HOLE	NO HOLE
REQUIREMENT	DRY : NO HOLE DEVELOP BEFORE 25,600 CYCLES WET:NO HOLE DEVELOP BEFORE 12,800 CYCLES					
18. WATER VAPOUR PERMEABILITY - VAMP LINING ISO 20345:2011,CLAUSE NO.5.5.3						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	24.4 mg/cm ² .h		22.6 mg/cm ² .h		24.1 mg/cm ² .h	
REQUIREMENT	2.0 mg/cm ² .h (MIN)					
WATER VAPOUR CO-EFFICIENT - VAMP LINING ISO 20345:2011,CLAUSE NO.5.5.3						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	197.7 mg/cm ²		184.0 mg/cm ²		195.7 mg/cm ²	
REQUIREMENT	20 mg/cm ² (MIN)					
19. TEAR STRENGTH- QUARTER LINING ISO 20345:2011,CLAUSE NO.5.5.1						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	61.0 N		60.6 N		60.6 N	
REQUIREMENT	15 N (MIN)					



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20. MARTINDALE ABRASION - QUARTER LINING / SEAT REGION LINING ISO 20345:2011,CLAUSE NO-5.5.2						
	RESULT					
	SIZE: 5		SIZE: 8		SIZE: 12	
	DRY	WET	DRY	WET	DRY	WET
	NO HOLE	NO HOLE	NO HOLE	NO HOLE	NO HOLE	NO HOLE
REQUIREMENT	FOR QUARTER LINING: DRY : NO HOLE DEVELOP BEFORE 25,600 CYCLES WET:NO HOLE DEVELOP BEFORE 12,800 CYCLES FOR SEAT REGION LINING: DRY : NO HOLE DEVELOP BEFORE 51,200 CYCLES WET:NO HOLE DEVELOP BEFORE 25,600 CYCLES					
21. WATER VAPOUR PERMEABILITY - QUARTER LINING ISO 20345:2011,CLAUSE NO.5.5.3						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	53.5 mg/cm ² .h		57.2 mg/cm ² .h		46.1 mg/cm ² .h	
REQUIREMENT	2.0 mg/cm ² .h (MIN)					
WATER VAPOUR CO-EFFICIENT -QUARTER LINING ISO 20345:2011,CLAUSE NO.5.5.3						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	431.0 mg/cm ²		460.5 mg/cm ²		372.4 mg/cm ²	
REQUIREMENT	20 mg/cm ² (MIN)					
22. WATER ABSORPTION & DESORPTION - INSOCK (FULL INSOCK, REMOVABLE & WATER PERMEABLE) ISO 20345:2011,CLAUSE NO.5.7.3						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	WATER THROUGH IN < 60 SECOND		WATER THROUGH IN < 60 SECOND		WATER THROUGH IN < 60 SECOND	
REQUIREMENT	LET'S WATER THROUGH IN 60 SECONDS OR LESS.					



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23. MARTINDALE ABRASION - INSOCK (FULL INSOCK, REMOVABLE & WATER PERMEABLE)						
ISO 20345:2011,CLAUSE NO.5.7.4.2						
	RESULTS					
STYLE NO.	SIZE: 5		SIZE: 8		SIZE: 12	
RFFW-121	DRY	WET	DRY	WET	DRY	WET
	NO HOLE	NO HOLE	NO HOLE	NO HOLE	NO HOLE	NO HOLE
REQUIREMENT	DRY : NO HOLE DEVELOP BEFORE 25,600 CYCLES WET: NO HOLE DEVELOP BEFORE 12,800 CYCLES					
24. THICKNESS (INSOLE)						
ISO 20345:2011,CLAUSE NO.5.7.1						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	4.3 mm		4.4 mm		4.3 mm	
REQUIREMENT	2.0 mm (MIN)					
25. WATER ABSORPTION & DESORPTION - INSOLE						
ISO 20345:2011,CLAUSE NO.5.7.3						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	ABSORPTION: mg/ cm ²	DESORPTION: %	ABSORPTION: mg/ cm ²	DESORPTION %	ABSORPTION: mg/ cm ²	DESORPTION %
	72.5	89.0	71.8	89.5	71.5	98.7
REQUIREMENT	WATER ABSORPTION - 70 mg/ cm ² (MIN.) WATER DESORPTION - 80 % (MIN.)					
26. ABRASION RESISTANCE - INSOLE						
ISO 20345:2011,CLAUSE NO.5.7.4.1						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	NO MORE THAN SEVERE DAMAGE OBSERVED AFTER 400 CYCLES.		NO MORE THAN SEVERE DAMAGE OBSERVED AFTER 400 CYCLES.		NO MORE THAN SEVERE DAMAGE OBSERVED AFTER 400 CYCLES.	
REQUIREMENT	THERE SHALL NO MORE THAN SEVERE DAMAGE BEFORE 400 CYCLES					



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27. NAIL PENETRATION RESISTANCE			
i. EFFECT OF HIGH TEMPERATURE			
(60±2)°C X 4 h±10 min. & then (45±2)°C X 18 h			
EN 12568:2010,CLAUSE NO-7.4.2			
	SAMPLE- 1		SAMPLE- 2
	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.		AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.
REQUIREMENT	AT 1100 N TIP OF THE TEST NAIL SHOULD NOT PENETRATE THROUGH THE TEST PIECE.		
ii. EFFECT OF LOW			
(-20±2)°C X 4 h±10 min. & then (-6±2)°C X 18 h			
EN 12568:2010,CLAUSE NO-7.4.3			
	SIZE: 5	SIZE: 8	SIZE: 12
	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.
REQUIREMENT	AT 1100 N TIP OF THE TEST NAIL SHOULD NOT PENETRATE THROUGH THE TEST PIECE.		
iii. EFFECT OF ACID			
H2SO4= 1 mol/1 (23°C ±2°C X 24 h±15 min & then 23°C ±20C X 24 h± 1 h)			
EN 12568:2010,CLAUSE NO-7.4.4			
	SIZE: 5	SIZE: 8	SIZE: 12
	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.
REQUIREMENT	AT 1100 N TIP OF THE TEST NAIL SHOULD NOT PENETRATE THROUGH THE TEST PIECE.		
iv. EFFECT OF ALKALI			
NaOH= 1 mol/1 (23°C±2°C X 24 h±15 min & then 23°C ±2°C X 24h ± 1 h)			
EN 12568:2010,CLAUSE NO-7.4.5			
	SIZE: 5	SIZE: 8	SIZE: 12
	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.
REQUIREMENT	AT 1100 N TIP OF THE TEST NAIL SHOULD NOT PENETRATE THROUGH THE TEST PIECE		



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v. EFFECT OF FUEL OIL			
2,2,4-TRIMETHYLPENTANE (23°C±2°C X 24 h±15 min & then 23°C ±2°C X 24h ± 1 h)			
EN 12568:2010,CLAUSE NO-7.4.6			
	SIZE: 5	SIZE: 8	SIZE: 12
	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.
REQUIREMENT:	AT 1100 N TIP OF THE TEST NAIL SHOULD NOT PENETRATE THROUGH THE TEST PIECE.		
28. DESIGN : THICKNESS OF CLEATED OUTSOLE			
ISO 20345:2011,CLAUSE NO.5.8.1.1			
	RESULTS		
	SIZE: 5	SIZE: 8	SIZE: 12
	8.7 mm	9.0 mm	9.3 mm
REQUIREMENT	4 mm (MIN)		
29. DESIGN : CLEATED AREA OUT SOLE			
ISO 20345:2011,CLAUSE NO.5.8.1.2			
	RESULTS		
	SIZE: 5	SIZE: 8	SIZE: 12
	SPECIFIED AREAS HAVE CLEATS WHICH ARE OPEN TO THE SIDE FRONT CLEAT AREA : 0.50 L HEEL CLEAT AREA : 0.33 L	SPECIFIED AREAS HAVE CLEATS WHICH ARE OPEN TO THE SIDE FRONT CLEAT AREA : 0.54L HEEL CLEAT AREA : 0.34 L	SPECIFIED AREAS HAVE CLEATS WHICH ARE OPEN TO THE SIDE FRONT CLEAT AREA : 0.55 L HEEL CLEAT AREA : 0.34 L
REQUIREMENT	SPECIFIED AREA SHALL HAVE CLEATS WHICH ARE OPEN TO THE SIDE FRONT CLEATS AREA : 0.45 L HEEL CLEATS AREA : 0.25 L		
30. DESIGN : CLEAT HEIGHT			
ISO 20345:2011,CLAUSE NO.5.8.1.3			
	RESULTS		
	SIZE: 5	SIZE: 8	SIZE: 12
	4.4 mm	4.8 mm	5.3 mm
REQUIREMENT	2.5 mm (MIN)		



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31. TEAR STRENGTH- OUTSOLE			
ISO 20345:2011,CLAUSE NO.5.8.2			
		RESULTS	
		SIZE: 5	SIZE: 8
		14.0 kN/m	12.5 kN/m
REQUIREMENT	5 kN/m (Min)		
32. ABRASION RESISTANCE- OUTSOLE			
ISO 20345:2011,CLAUSE NO.5.8.3			
		RESULTS	
		SIZE: 5	SIZE: 8
		78.2 mm ³	68.7 mm ³
REQUIREMENT	250 mm ³ (MAX.)		
33. FLEXING RESISTANCE -OUTSOLE			
ISO 20345:2011,CLAUSE NO.5.8.4			
		RESULTS	
		SIZE: 5	SIZE: 8
		1.5 mm CUT GROWTH WAS OBSERVED	1.5 mm CUT GROWTH WAS OBSERVED
			0.5 mm CUT GROWTH WAS OBSERVED
REQUIREMENT	4 mm (MAX.) CUT GROWTH TILL 30,000 CYCLES.		
34. HYDROLYSIS TEST-OUTSOLE			
ISO 20345:2011,CLAUSE NO.5.8.5			
		RESULTS	
		SIZE: 5	SIZE: 8
		1.5 mm CUT GROWTH WAS OBSERVED	2.0 mm CUT GROWTH WAS OBSERVED
			1.5 mm CUT GROWTH WAS OBSERVED
REQUIREMENT	6 mm (MAX.) CUT GROWTH TILL 150,000 CYCLES		
35. PENETRATION RESISTANCE - DETERMINATION OF PENETRATION FORCE -COMPLETE FOOTWEAR			
ISO 20345:2011 (CLAUSE 6.2.1.1.2)			
		RESULTS	
		SIZE: 5	SIZE: 8
		AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.	AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.
			AT 1100 N, THE TIP OF THE TEST NAIL DIDN'T PENETRATE THROUGH THE PIECE.
REQUIREMENT:	AT 1100 N TIP OF THE TEST NAIL SHOULD NOT PENETRATE THROUGH THE TEST PIECE.		



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36. FLEXING ENDURANCE – INSOLE						
ISO 20345:2011 (CLAUSE NO. 6.2.1.4)						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	NO VISIBLE SIGN OF CRACKING OBSERVED AFTER BEING SUBJECTED TO 1X10 ⁶ FLEXES		NO VISIBLE SIGN OF CRACKING OBSERVED AFTER BEING SUBJECTED TO 1X10 ⁶ FLEXES		NO VISIBLE SIGN OF CRACKING OBSERVED AFTER BEING SUBJECTED TO 1X10 ⁶ FLEXES	
REQUIREMENT	NO VISUAL SIGN OF CRACKING AFTER 1X10 ⁶ FLEXES.					
37. ANTISTATIC FOOTWEAR						
ISO 20345:2011,CLAUSE NO.6.2.2.2						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	DRY	WET	DRY	WET	DRY	WET
	218 MΩ	20.3 MΩ	173 MΩ	18.9 MΩ	240.0 MΩ	12.9 MΩ
REQUIREMENT	100 KΩ-1000 MΩ					
38. ENERGY ABSORPTION OF SEAT REGION						
ISO 20345:2011,CLAUSE NO-6.2.4						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT
	31 J	31 J	36 J	34 J	38 J	35 J
REQUIREMENT	20 J (Min.)					



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39. WATER PENETRATION & WATER ABSORPTION - UPPER LEATHER			
ISO 20345:2011,CLAUSE NO.6.3			
	RESULTS		
	SIZE: 5	SIZE: 8	SIZE: 12
LEATHER	WATER PENETRATION : 0.06g	WATER PENETRATION : 0.04g	WATER PENETRATION : 0.06g
NON LEATHER	0.12g	0.14g	0.14g
REQUIREMENT	0.2g (MAX.)		
LEATHER	WATER ABSORPTION: 17.0 %	WATER ABSORPTION: 17.5 %	WATER ABSORPTION: 18.5 %
NON LEATHER	24.5%	25.0%	25.3%
REQUIREMENT	30% (MAX)		
REMARK:	NO NON FUNCTIONAL AND NO DECORATIVE STITCHINGS AND PERFORATION OBSERVED		
40. RESISTANCE TO FUEL OIL (OUTSOLE)			
ISO 20345: 2011,CLAUSE NO.6.4.2			
	RESULTS		
	SIZE: 5	SIZE: 8	SIZE: 12
	1.8 %	1.8 %	1.6 %
REQUIREMENT	12 % (MAX)		



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41. AZO-DYES TEST				
LEATHER METHOD :EN ISO /TS 17234-1				
EN 14362-1:2017 TEXTILE METHOD				
p-AMINOAZOBENZENE-§ 64 LFGB B82.09/4 AAB)				
BLACK UPPER LEATHER- LEATHER METHOD				
	FORBIDDEN AMINE	CAS-No.	RESULT	REQUIREMENT
i	4-Aminodiphenyl	92-67-1	ND	30 PPM (Max.)
ii	Benzidine	92-87-5	ND	
iii	4-Chloro-O-Toluidine	95-69-2	ND	
iv	2-Naphthylamine	91-59-8	ND	
v	O-Aminoazotoluene	97-56-3	ND	
vi	2-Amino-4-Nitrotoluene	99-55-8	ND	
vii	P-Chloroaniline	106-47-8	ND	
viii	2,4-Diaminoanisole	615-05-4	ND	
ix	4,4'-Diaminodiphenylmethane	101-77-9	ND	
x	3,3'-Dichlorobenzidine	91-94-1	ND	
xi	3,3'-Dimethoxybenzidine	119-90-4	ND	
xii	3,3-Dimethylbenzidine	119-93-7	ND	
xiii	3,3'-Dimethyl-4,4'Diaminodiphenylmethane	838-88-0	ND	
xiv	P-Cresidine	120-71-8	ND	
xv	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND	
xvi	4,4'-Oxidianiline	101-80-4	ND	
xvii	4,4'-Thiodianiline	139-65-1	ND	
xviii	O-Toluidine	95-53-4	ND	
xix	2,4'-Toluylenediamine	95-80-7	ND	
xx	2,4,5-Trimethylaniline	137-17-7	ND	
xxi	O-Anisidine	90-04-0	ND	
xxii	p-Aminoazobenzene	60-09-3	ND	
xxiii	2,6 Xylidin	87-62-7	ND	
xxiv	2-4 Xylidin	95-68-1	ND	
REMARK:	ND:NOT DETECTED DETECTION LIMIT:5PPM PPM = PARTS PER MILLION			



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GREY MESH QUARTER/SEAT REGION LINING FABRIC + BLACK INSOCK- TEXTILE METHOD				
	<u>FORBIDDEN AMINE</u>	<u>CAS-No.</u>	<u>RESULT</u>	<u>REQUIREMENT</u>
i	4-Aminodiphenyl	92-67-1	ND	30 PPM (Max.)
ii	Benzidine	92-87-5	ND	
iii	4-Chloro-O-Toluidine	95-69-2	ND	
iv	2-Naphthylamine	91-59-8	ND	
v	O-Aminoazotoluene	97-56-3	ND	
vi	2-Amino-4-Nitrotoluene	99-55-8	ND	
vii	P-Chloroaniline	106-47-8	ND	
viii	2,4-Diaminoanisole	615-05-4	ND	
ix	4,4'-Diaminodiphenylmethane	101-77-9	ND	
x	3,3'-Dichlorobenzidine	91-94-1	ND	
xi	3,3'-Dimethoxybenzidine	119-90-4	ND	
xii	3,3-Dimethylbenzidine	119-93-7	ND	
xiii	3,3'-Dimethyl-4,4'Diaminodiphenylmethane	838-88-0	ND	
xiv	P-Cresidine	120-71-8	ND	
xv	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND	
xvi	4,4'-Oxidianiline	101-80-4	ND	
xvii	4,4'-Thiodianiline	139-65-1	ND	
xviii	O-Toluidine	95-53-4	ND	
xix	2,4'-Toluylenediamine	95-80-7	ND	
xx	2,4,5-Trimethylaniline	137-17-7	ND	
xxi	O-Anisidine	90-04-0	ND	
xxii	p-Aminoazobenzene	60-09-3	ND	
xxiii	2,6 Xylidin	87-62-7	ND	
xxiv	2-4 Xylidin	95-68-1	ND	
REMARK:	ND:NOT DETECTED DETECTION LIMIT:5PPM PPM = PARTS PER MILLION			



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OFF WHITE VAMP LINING FABRIC - TEXTILE METHOD				
	<u>FORBIDDEN AMINE</u>	<u>CAS-No.</u>	<u>RESULT</u>	<u>REQUIREMENT</u>
i	4-Aminodiphenyl	92-67-1	ND	30 PPM (Max.)
ii	Benzidine	92-87-5	ND	
iii	4-Chloro-O-Toluidine	95-69-2	ND	
iv	2-Naphthylamine	91-59-8	ND	
v	O-Aminoazotoluene	97-56-3	ND	
vi	2-Amino-4-Nitrotoluene	99-55-8	ND	
vii	P-Chloroaniline	106-47-8	ND	
viii	2,4-Diaminoanisole	615-05-4	ND	
ix	4,4'-Diaminodiphenylmethane	101-77-9	ND	
x	3,3'-Dichlorobenzidine	91-94-1	ND	
xi	3,3'-Dimethoxybenzidine	119-90-4	ND	
xii	3,3-Dimethylbenzidine	119-93-7	ND	
xiii	3,3'-Dimethyl-4,4'Diaminodiphenylmethane	838-88-0	ND	
xiv	P-Cresidine	120-71-8	ND	
xv	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND	
xvi	4,4'-Oxidianiline	101-80-4	ND	
xvii	4,4'-Thiodianiline	139-65-1	ND	
xviii	O-Toluidine	95-53-4	ND	
xix	2,4'-Toluylenediamine	95-80-7	ND	
xx	2,4,5-Trimethylaniline	137-17-7	ND	
xxi	O-Anisidine	90-04-0	ND	
xxii	p-Aminoazobenzene	60-09-3	ND	
xxiii	2,6 Xylidin	87-62-7	ND	
xxiv	2-4 Xylidin	95-68-1	ND	
REMARK:	ND:NOT DETECTED DETECTION LIMIT:5PPM PPM = PARTS PER MILLION			



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BLACK SYNTHETIC UPPER / TONGUE/COLLAR - TEXTILE METHOD				
	<u>FORBIDDEN AMINE</u>	<u>CAS-No.</u>	<u>RESULT</u>	<u>REQUIREMENT</u>
i	4-Aminodiphenyl	92-67-1	ND	30 PPM (Max.)
ii	Benzidine	92-87-5	ND	
iii	4-Chloro-O-Toluidine	95-69-2	ND	
iv	2-Naphthylamine	91-59-8	ND	
v	O-Aminoazotoluene	97-56-3	ND	
vi	2-Amino-4-Nitrotoluene	99-55-8	ND	
vii	P-Chloroaniline	106-47-8	ND	
viii	2,4-Diaminoanisole	615-05-4	ND	
ix	4,4'-Diaminodiphenylmethane	101-77-9	ND	
x	3,3'-Dichlorobenzidine	91-94-1	ND	
xi	3,3'-Dimethoxybenzidine	119-90-4	ND	
xii	3,3-Dimethylbenzidine	119-93-7	ND	
xiii	3,3'-Dimethyl-4,4'Diaminodiphenylmethane	838-88-0	ND	
xiv	P-Cresidine	120-71-8	ND	
xv	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND	
xvi	4,4'-Oxidianiline	101-80-4	ND	
xvii	4,4'-Thiodianiline	139-65-1	ND	
xviii	O-Toluidine	95-53-4	ND	
xix	2,4'-Toluylenediamine	95-80-7	ND	
xx	2,4,5-Trimethylaniline	137-17-7	ND	
xxi	O-Anisidine	90-04-0	ND	
xxii	p-Aminoazobenzene	60-09-3	ND	
xxiii	2,6 Xylidin	87-62-7	ND	
xxiv	2-4 Xylidin	95-68-1	ND	
REMARK:	ND:NOT DETECTED DETECTION LIMIT:5PPM PPM = PARTS PER MILLION			

END OF TEST REPORT

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