RED FORT™
FOOT WEAR

Extra Cool Lining for Dry Feet

Water Resistant Crazy Horse Leather Upper

Leather Toe Guard for Long lasting Abrasion Resistance

Metal Free - Anti Perforation Textile Insole

Metal Free - Extra Wide Composite Protective Toe Cap

Direct Injection Moulded Rubber - PU Sole with Anti Slip Design, Oil/ Chemical Resistant & Antistatic properties

Slip Lock Design for Excellent Grip

HRO Rubber Sole
Heat Resistant upto 300° by contact (1 minute)

Available in Sizes - UK 05 to 12

RFFW - 321

EN ISO:20345 S3 HRO SRC

The product is tested & certified by INTERTEK

RED FORT™
FOOT WEAR

Article:	:	RFFW-321
Operative Standard	:	IS: 15298(PART-2);2011 AND EN ISO:20345
Safety Class	:	S3 HRO SRC
Construction	:	Pu-rubber Nitrile Outsole
Description	:	Low Ankle Shoe, Full Grain Crazy Horse Leather (water Resistant), 200J Composite Toe, Direct Injection Molded Rubber-PU Sole, 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	Crazy Horse grain leather 1.8-2.0 mm thickness (Water Resistant) + Toe Guard Leather
Vamp Lining	Black Spacer
Inner Lining	Black Spacer
Tongue	Leather with 6mm PU Foam.
Collar	Leather with 14mm PU Foam.
Counter Stiffener	Thermoplastic Sheet 2mm Thickness
Insole	Anti-Perforation Textile Insole
Toe Cap	Composite toe cap - 200 J impact Resistance
Padding Under Steel Toe	Polymer Strip for comfort
Outsole	Direct Injection Moulded PU Rubber Sole with DESMA Machine. The sole has Anti Slip Design, Oil/ Chemical Resistant and Antistatic properties
Heat Resistance(HRO)	Up to 300 °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.
Tel: - +912225022326,+912225101155,+912225101166 | Fax: - +912225145921
Email: - info@redfortworkwear.com, ppe@redfortworkwear.com
Web: - www.redfortworkwear.com, www.redfortworkwear.co.in

EU Type Examination Certificate

Issued to : Shree Balaji Enterprise
B22/23, First Floor, BardanGali, Next to Hanuman Temple, Behind Jungleshwarmandir, IMM Road, Asalpha, Ghatkopa (W), Mumbai-400084, Maharashtra, INDIA

Authorised Representative : Shree Balaji Enterprise
B22/23, First Floor, BardanGali, Next to Hanuman Temple, Behind Jungleshwarmandir, IMM Road, Asalpha, Ghatkopa (W), Mumbai-400084, Maharashtra, INDIA

Issue Date : 24 September 2018

Expiry Date : 24 September 2023

Certificate No. : LEC FI00372939

Product Reference(s) : RFFW-321, RFFW-121, RFFW-221
Safety Footwear under brand name Red Fort Foot Wear

Description

Construction	:	Direct Injection Footwear
Toecap	:	COMPOSITE TOE CAP 200J
Insole	:	Anti-perforation Kevlar Insole
Last	:	12568
Sole	:	PU/Rubber
Mould	:	3959
Test Report(s)	:	See Technical File
Size Range	:	5 – 12
Category	:	S3 HRO SRC

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
United Kingdom
Phone: +44 (0)116 263 0330
Fax: +44 (0)116 263 0311

J moore
Assessor — 24/09/2018 Date

Certification Manager — 24/09/2018 Date

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

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

NUMBER : DELF18004076-A

DATE : 04th JULY, 2018

TEST REPORT

PHOTO

DELF18004076

Intertek India Private Ltd.
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DATE : 04th JULY, 2018

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. RAJU**

SAMPLE DESCRIPTION	:	THE SUBMITTED SAMPLE SAID TO BE SAFETY FOOTWEAR UNDER THE BRAND NAME RED FORT FOOTWEAR.
DATE RECEIVED	:	27th April, 2018
BUYER NAME	:	-
STYLE NO.	:	DESIGN A : RFFW-321 DESIGN B : RFFW-121 DESIGN C : RFFW-221
SIZE	:	5,8,12
CATEGORY	:	S3 HRO SRC
COLOUR	:	BROWN
UPPER	:	BROWN CRAZY HORSE LEATHER (WATER RESISTANT) & TOE GUARD LEATHER
VAMP/ QUARTER / SEAT REGION LINING	:	SPACER BLACK
COLLAR / TONGUE	:	SYNTHETIC BROWN
INSOLE	:	WHITE ANTI-PERFORATION KEVLAR INSOLE
INSOCK	:	BLACK EVA MOULDED WITH TEXTILE LAMINATED
OUTSOLE	:	BLACK RUBBER PU
PENETRATION INSERT	:	WHITE ANTI-PERFORATION KEVLAR INSOLE
TOE CAP	:	WHITE COMPOSITE 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

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TEST REPORT

7	IMPACT RESISTANCE	M
8	COMPRESSION RESISTANCE	M
9	ERGONOMIC FEATURES	M
10	IMPACT RESISTANCE (FIVE ENVIRONMENTAL TREATMENTS)	M
11	SLIP RESISTANCE (SRA)	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/QUARTER LINING	M
17	MARTINDALE ABRASION - VAMP LINING/QUARTER LINING / SEAT REGION LINING	M
18	WATER VAPOUR PERMEABILITY & WATER VAPOUR CO-EFFICIENT - VAMP LINING/QUARTER LINING	M
19	TEAR STRENGTH- COLLAR/TONGUE	M
20	MARTINDALE ABRASION - COLLAR	M
21	WATER ABSORPTION & DESORPTION - INSOCK (FULL INSOCK, REMOVABLE & NO WATER PERMEABLE)	M
22	MARTINDALE ABRASION – INSOCK (FULL INSOCK, REMOVABLE & WATER PERMEABLE)	M
23	THICKNESS (INSOLE)	M
24	WATER ABSORPTION & DESORPTION - INSOLE	M
25	ABRASION RESISTANCE – INSOLE	M
26	NAIL PENETRATION RESISTANCE (AFTER FIVE ENVIRONMENTAL TREATMENTS)	M
27	DESIGN : THICKNESS OF CLEATED OUTSOLE	M
28	DESIGN : CLEATED AREA OUT SOLE	M
29	DESIGN : CLEAT HEIGHT	M
30	TEAR STRENGTH- OUTSOLE	M
31	ABRASION RESISTANCE- OUTSOLE	M
32	FLEXING RESISTANCE -OUTSOLE	M
33	INTERLAYER BOND STRENGTH OF SOLE	M
34	PENETRATION RESISTANCE - DETERMINATION OF PENETRATION FORCE -COMPLETE FOOTWEAR	M
35	FLEXING ENDURANCE –INSOLE	M
36	ANTISTATIC FOOTWEAR	M
37	ENERGY ABSORPTION OF SEAT REGION	M

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DATE : 04th JULY, 2018

38	WATER PENETRATION & WATER ABSORPTION – UPPER LEATHER	M
39	HOT CONTACT	M
40	RESISTANCE TO FUEL OIL (OUTSOLE)	M
41	AZO-DYES	M

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NOTE: M = Meet buyer's requirement, F = Does Not Meet buyer's requirement
***= Not Provided, NA = Not Applicable**

AUTHORIZED BY
FOR INTERTEK INDIA PRIVATE LIMITED [FOOTWEAR]

SURJIT SINGH
DEPUTY MANAGER

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TEST REPORT

1. DESIGN: HEIGHT OF UPPER ISO 20345:2011,CLAUSE NO-5.2.2						
	RESULTS					
STYLE NO.	SIZE: 5		SIZE: 8		SIZE: 12	
RFFW-321	DESIGN: A	91.8 mm	DESIGN: A	93.4 mm	DESIGN: A	105.5 mm
REQUIREMENT	<105 mm		<113 mm		<121mm	
RFFW-121	DESIGN: B	136.8 mm	DESIGN: B	158.9 mm	DESIGN: B	173.8 mm
REQUIREMENT	105 mm(Min.)		113 mm (Min.)		121mm (Min.)	
RFFW-221	DESIGN: C	243.0 mm	DESIGN: C	250.0 mm	DESIGN: C	269.0 mm
REQUIREMENT	165 mm(Min.)		178 mm (Min.)		192 mm (Min.)	

2. DESIGN : SEAT REGION ISO 20345:2011,CLAUSE NO-5.2.3			
	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-321	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-121	SEAT REGION IS CLOSED	SEAT REGION IS CLOSED	SEAT REGION IS CLOSED
RFFW-221	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-321	REQUIREMENT MEET	REQUIREMENT MEET	REQUIREMENT MEET
RFFW-121	REQUIREMENT MEET	REQUIREMENT MEET	REQUIREMENT MEET
RFFW-221	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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TEST REPORT

DATE : 04th JULY, 2018

4. UPPER/OUTSOLE BOND STRENGTH ISO:20345:2011,CLAUSE NO-5.3.1.2			
STYLE NO.	RESULTS		
RFFW-321	SIZE: 5	SIZE: 8	SIZE: 12
	7.1 N/mm*	6.5 N/mm*	6.8 N/mm*
REMARK	*= TEARING OF SOLEING MATERIAL		
REQUIREMENT	3.0 N/mm (Min.)		

5.GENERAL ISO 20345:2011,CLAUSE NO.5.3.2.1			
	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-121	PASS	PASS	PASS
	VAMP LINING PRESENT	VAMP LINING PRESENT	VAMP LINING PRESENT
	BENEATH TOE CAP- 14.0 mm	BENEATH TOECAP 13.0 mm	BENEATH TOECAP 10.7 mm
	BEHIND TOECAP 7.3 mm	BEHIND TOECAP 7.4 mm	BEHIND TOECAP 8.3 mm
	WIDHT OF FLANGE: 7.1 mm	WIDHT OF FLANGE: 7.3 mm	WIDHT OF FLANGE: 8.7 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						
	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT
	37.7 mm	37.7 mm	40.0 mm	40.3 mm	43.7 mm	44.0 mm
REQUIREMENT	36 mm (MIN.)		39 mm(MIN.)		42 mm(MIN.)	

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TEST REPORT

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-321	18.5 mm	18.0 mm	19.8 mm	19.2 mm	22.4 mm	21.6 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-321	18.8 mm	18.6 mm	21.0 mm	19.5 mm	21.5 mm	21.3 mm
REQUIREMENT	13.0 mm (Min.)		14.0 mm (Min.)		15.0 mm(MIN.)	

9. ERGONOMIC FEATURES ISO 20345:2011,CLAUSE NO-5.3.4			
	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-321	REQUIREMENT MEET	REQUIREMENT MEET	REQUIREMENT MEET
RFFW-121	REQUIREMENT MEET	REQUIREMENT MEET	REQUIREMENT MEET
RFFW-221	REQUIREMENT MEET	REQUIREMENT MEET	REQUIREMENT MEET
REQUIREMENT	ALL ANSWERS TO THE QUESTIONNAIRE SHALL BE POSITIVE		
REMARK:	YES = ALL THE ANSWERS ARE POSITIVE IN THE QUESTIONNAIRE AS BELOW: QUESTION 1: IS THE INSIDE SURFACE OF THE FOOTWEAR FREE FROM ROUGH, SHARP OR HARD AREAS THAT CAUSED YOU IRRITATION OR INJURY? QUESTION 2: ARE THERE NO PINCH POINT CAUSED BY TOE- CAP OR THE EDGE COVERING OF THE TOECAP? QUESTION 3: IS THE FOOTWEAR FREE OF FEATURES THAT CONSIDER TO MAKE WEARING THE FOOTWEAR HAZARDOUS? QUESTION 4: CAN THE FASTENING BE ADEQUATELY ADJUSTED (IT NECESSARY)? QUESTION 5: CAN THE FOLLOWING ACTIVITIES BE PERFORMED WITHOUT PROBLEMS I. WALKING II. CLIMBING STAIRS III. KNEELING/CRUNCHING DOWN		

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10. IMPACT RESISTANCE (FIVE ENVIRONMENTAL TREATMENTS) **i. EFFECT OF HIGH TEMPERATURE** **(60±2)°C X 4 h±10 min. & then (45±2)°C X 18 h TO 20 h** **EN 12568:2010,CLAUSE NO-5.4.2**		
	RESULTS	
	RIGHT	LEFT
SIZE:8	24.0 mm	24.5 mm
REQUIREMENT:	21.0 mm (Min.)	
REMARK	IN ADDITION, THE TOE CAP SHALL NOT DEVELOP SHARP EDGE OR ANY CRACKS PASSING THROUGH THE MATERIAL (I.E. THROUGH WHICH LIGHT CAN BE SEEN).	
ii. EFFECT OF LOW TEMPERATURE **(-20±2)°C X 4 h±10 min. & then (-6±2)°C X 18 h TO 20 h** **EN 12568:2010,CLAUSE NO-5.4.3**		
	RESULTS	
	RIGHT	LEFT
SIZE:8	25.5 mm	25.5 mm
REQUIREMENT:	21.0 mm (Min.)	
REMARK	IN ADDITION, THE TOE CAP SHALL NOT DEVELOP SHARP EDGE OR ANY CRACKS PASSING THROUGH THE MATERIAL (I.E. THROUGH WHICH LIGHT CAN BE SEEN).	
iii. EFFECT OF ACID **H2SO4= 1 mol/1 (23°C ±2°C X 24 h±15 min & then 23°C ±2°C X 24 h± 1 h)** **EN 12568:2010,CLAUSE NO-5.4.4**		
	RESULTS	
	RIGHT	LEFT
SIZE:8	25.6 mm	25.3 mm
REQUIREMENT:	21.0 mm (Min.)	
REMARK	IN ADDITION, THE TOE CAP SHALL NOT DEVELOP SHARP EDGE OR ANY CRACKS PASSING THROUGH THE MATERIAL (I.E. THROUGH WHICH LIGHT CAN BE SEEN).	
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-5.4.5**		
	RESULTS	
	RIGHT	LEFT
SIZE:8	24.5 mm	25.0 mm
REQUIREMENT:	21.0 mm (Min.)	
REMARK	IN ADDITION, THE TOE CAP SHALL NOT DEVELOP SHARP EDGE OR ANY CRACKS PASSING THROUGH THE MATERIAL (I.E. THROUGH WHICH LIGHT CAN BE SEEN).	

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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-5.4.6		
	RESULTS	
	RIGHT	LEFT
SIZE:8	24.9 mm	25.2 mm
REQUIREMENT:	21.0 mm (Min.)	
REMARK	IN ADDITION, THE TOE CAP SHALL NOT DEVELOP SHARP EDGE OR ANY CRACKS PASSING THROUGH THE MATERIAL (I.E. THROUGH WHICH LIGHT CAN BE SEEN).	

11. SLIP RESISTANCE (SRA) ISO 20345:2011, CLAUSE NO-5.3.5.2						
	RESULTS					
STYLE NO.	SIZE: 5		SIZE: 42		SIZE: 12	
RFFW-121	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	0.33	0.28	0.32	0.29	0.33
REQUIREMENT	CONDITION-A (FORWARD HEEL SLIP): 0.28 (MIN.) CONDITION-B (FORWARD FLAT SLIP): 0.32 (MIN.)					

12. TEAR STRENGTH –UPPER LEATHER ISO 20345:2011,CLAUSE NO.5.4.3			
	RESULTS		
STYLE NO.	SIZE:5	SIZE:42	SIZE: 12
RFFW-321	281 N	279 N	281 N
REQUIREMENT	120 N(Min.)		

13. WATER VAPOUR PERMEABILITY –UPPER ISO 20345:2011,CLAUSE NO.5.4.6			
	RESULTS		
STYLE NO.	SIZE:5	SIZE:42	SIZE: 12
RFFW-321	2.2 mg/cm^2 .h	1.5 mg/cm^2.h	2.1 mg/cm^2.h
REQUIREMENT	0.8 mg/cm^2.h (MIN)		

WATER VAPOUR CO-EFFICIENT ISO 20345:2011,CLAUSE NO.5.4.6			
	RESULTS		
STYLE NO.	SIZE:5	SIZE:42	SIZE: 12
RFFW-321	20.0 mg/cm^2	18.3 mg/cm^2	19.3 mg/cm^2
REQUIREMENT	15 mg/cm^2 (MIN)		

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14. PH VALUE – UPPER LEATHER ISO 20345:2011,CLAUSE NO.5.4.7		
	RESULTS	
STYLE NO.	SAMPLE :1	SAMPLE :2
RFFW-321	BROWN UPPER LEATHER :4.2	BROWN UPPER LEATHER :4.2
	BLACK TOE UPPER LEATHER: 4.0	BLACK TOE UPPER LEATHER: 4.0
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		
STYLE NO.	SAMPLE :1	SAMPLE :2
RFFW-321	BROWN UPPER LEATHER : ND	BROWN UPPER LEATHER : ND
	BLACK TOE UPPER LEATHER :ND	BLACK TOE UPPER LEATHER :ND
REQUIREMENT	< 3.0 mg/kg	
REMARK:	< = LESS THAN DETECTION LIMIT = 1 ppm	PPM = PARTS PER MILLION = mg/kg ND = NOT DETECTED

16. TEAR STRENGTH- VAMP LINING/QUARTER LINING ISO 20345:2011,CLAUSE NO.5.5.1			
	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-121	61.0 N	60.6 N	60.6 N
REQUIREMENT	15 N (MIN)		

17. MARTINDALE ABRASION - VAMP LINING/QUARTER LINING / SEAT REGION LINING ISO 20345:2011,CLAUSE NO-5.5.2						
	RESULT					
	SIZE: 5		SIZE: 8		SIZE: 12	
STYLE NO.	DRY	WET	DRY	WET	DRY	WET

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RFFW-121	NO HOLE	NO HOLE	NO HOLE	NO HOLE	NO HOLE	NO HOLE
REQUIREMENT	FOR VAMP/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					

18. WATER VAPOUR PERMEABILITY - VAMP LINING/QUARTER LINING
ISO 20345:2011,CLAUSE NO.5.5.3

	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-121	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 – VAMP LINING/QUARTER LINING
ISO 20345:2011,CLAUSE NO.5.5.3

	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-121	431.0 mg/cm^2	460.5 mg/cm^2	372.4 mg/cm^2
REQUIREMENT	20 mg/cm^2 (MIN)		

19. TEAR STRENGTH- COLLAR/TONGUE
ISO 20345:2011, CLAUSE NO. 5.5.1 &5.6.1

	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-121	38.0 N	43.0 N	42.0 N
REQUIREMENT	FOR COLLAR: 15 N (Min.) FOR TONGUE: 18 N (Min.)		

20. MARTINDALE ABRASION - COLLAR
ISO:20345:2011,CLAUSE NO-5.5.2

	RESULTS					
	SIZE: 5		SIZE: 8		SIZE: 12	
STYLE NO.	DRY	WET	DRY	WET	DRY	WET

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RFFW-121	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					

21. WATER ABSORPTION & DESORPTION - INSOCK (FULL INSOCK, REMOVABLE & NO WATER PERMEABLE)
ISO 20345:2011,CLAUSE NO.5.7.3

	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-321	WATER THROUGH IN < 60 SECOND	WATER THROUGH IN < 60 SECOND	WATER THROUGH IN < 60 SECOND
REQUIREMENT	LET'S WATER THROUGH IN 60 SECOND OR LESS.		

22. 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					

23. THICKNESS (INSOLE)
ISO 20345:2011,CLAUSE NO.5.7.1

	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-121	4.3 mm	4.4 mm	4.3 mm
REQUIREMENT	2.0 mm (MIN)		

24. WATER ABSORPTION & DESORPTION - INSOLE
ISO 20345:2011,CLAUSE NO.5.7.3

	RESULTS		
	SIZE: 5	SIZE: 8	SIZE: 12

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	ABSORPTION: mg/ cm^2	DESORPTION: %	ABSORPTIN: mg/ cm^2	DESORPTION %	ABSORPTION: mg/ cm^2	DESORPTION%
	72.5	82.0	71.8	81.5	71.5	81.7
REQUIREMENT	WATER ABSORPTION – 70 mg/ cm^2 (MIN.) WATER DESORPTION – 80 % (MIN.)					

25. 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		

26. 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
H_2SO_4= 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

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	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		

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.		

27. DESIGN : THICKNESS OF CLEATED OUTSOLE
ISO 20345:2011,CLAUSE NO.5.8.1.1

	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-321	8.8 mm	9.1 mm	9.3 mm
REQUIREMENT	4 mm (MIN)		

28. DESIGN : CLEATED AREA OUT SOLE
ISO 20345:2011,CLAUSE NO.5.8.1.2

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	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-121	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		

29. DESIGN : CLEAT HEIGHT
ISO 20345:2011,CLAUSE NO.5.8.1.3

	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-121	4.4 mm	4.8 mm	5.3 mm
REQUIREMENT	2.5 mm (MIN)		

30. TEAR STRENGTH- OUTSOLE
ISO 20345:2011,CLAUSE NO.5.8.2

	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-121	15.2 kN/m	14.9 kN/m	15.1 kN/m
REQUIREMENT	8 kN/m (Min)		

31. ABRASION RESISTANCE- OUTSOLE
ISO 20345:2011,CLAUSE NO.5.8.3

	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-121	138.1 mm^3	136.5 mm^3	147.3 mm^3
REQUIREMENT	150 mm^3 (MAX.)		

32. FLEXING RESISTANCE -OUTSOLE
ISO 20345:2011,CLAUSE NO.5.8.4

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	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-321	1.0 mm CUT GROWTH WAS OBSERVED	1.0 mm CUT GROWTH WAS OBSERVED	1.0 mm CUT GROWTH WAS OBSERVED
REQUIREMENT	4 mm (MAX.) CUT GROWTH TILL 30,000 CYCLES.		

33. INTERLAYER BOND STRENGTH OF SOLE
ISO 20345:2011,CLAUSE NO-5.8.6

	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-321	5.2 N/mm*	6.3 N/mm*	4.6 N/mm*
REQUIREMENT	3.0 N/mm* (Min.)		
REMARK	*= TEARING OF MIDSOLE MATERIAL.		

34. PENETRATION RESISTANCE - DETERMINATION OF PENETRATION FORCE -COMPLETE FOOTWEAR
ISO 20345:2011 (CLAUSE 6.2.1.1.2)

	RESULTS		
STYLE NO.	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-321	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.		

35. 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.		

36. ANTISTATIC FOOTWEAR
ISO 20345:2011,CLAUSE NO.6.2.2.2

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	RESULTS					
STYLE NO.	SIZE: 5		SIZE: 8		SIZE: 12	
RFFW-321	DRY	WET	DRY	WET	DRY	WET
	117.8 MΩ	22.9 MΩ	110.0 MΩ	23.6 MΩ	93.8 MΩ	35.6 MΩ
REQUIREMENT	100 KΩ-1000 MΩ					

37. ENERGY ABSORPTION OF SEAT REGION
ISO 20345:2011,CLAUSE NO-6.2.4

	RESULTS					
STYLE NO.	SIZE: 5		SIZE: 8		SIZE: 12	
RFFW-321	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT
	30 J	28 J	37 J	35 J	35 J	41 J
REQUIREMENT	20 J (Min.)					

38. WATER PENETRATION & WATER ABSORPTION – UPPER LEATHER
ISO 20345:2011,CLAUSE NO.6.3

	RESULTS		
STYLE	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-321, RFFW-121 & RFFW-221	WATER PENETRATION : 0.01g	WATER PENETRATION : 0.01g	WATER PENETRATION : 0.01g
REQUIREMENT	0.2g (MAX.)		
RFFW-321, RFFW-121 & RFFW-221	WATER ABSORPTION: 13.0 **%**	WATER ABSORPTION: 12.0 %	WATER ABSORPTION: 12.6 %
REQUIREMENT	30% (MAX)		
REMARK:	NO NON FUNCTIONAL AND NO DECORATIVE STITCHINGS AND PERFORATION OBSERVED		

39. HOT CONTACT
ISO 20345: 2011,CLAUSE NO.6.4.1

	RESULTS

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STYLE	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-321	NO MELTING / CRACK OBSERVED	NO MELTING / CRACK OBSERVED	NO MELTING / CRACK OBSERVED
REQUIREMENT	OUTSOLE SHALL NOT MELT AND SHALL NOT DEVELOP ANY CRACKS WHEN BENT AROUND THE MANDREL.		

40. RESISTANCE TO FUEL OIL (OUTSOLE) ISO 20345: 2011,CLAUSE NO.6.4.2			
	RESULTS		
STYLE	SIZE: 5	SIZE: 8	SIZE: 12
RFFW-321	1.5 %	1.4 %	1.4 %
REQUIREMENT	12 % (MAX)		

41. AZO-DYES TEST
LEATHER METHOD :EN ISO /TS 17234-1

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

NUMBER : DELF18004076-A

TEST REPORT

DATE : 04th JULY, 2018

EN 14362-1:2017 TEXTILE METHOD				
p-AMINOAZOBENZENE-§ 64 LFGB B82.09/4 AAB)				
BROWN UPPER LATHER +BLACK TOE 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-Chlloroaniline)	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			

BLACK MESH LINING FABRIC+OFF WHITE VAMP LINING FABRIC+BLACK INSOCK FABRIC- TEXTILE METHOD

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NUMBER : DELF18004076-A

TEST REPORT

DATE : 04th JULY, 2018

	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	12 ppm	
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-Chlloroaniline)	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			

BROWN COLLAR/TONGUE SNTHETIC- TEXTILE METHOD				
	FORBIDDEN AMINE	CAS-No.	RESULT	REQUIREMENT

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TEST REPORT

DATE : 04th JULY, 2018

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-Chlloroaniline)	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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 # END OF TEST REPORT #

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