

# STYLE REF: RF250

## STYLE NAME: RHODIUM

**Rock Fall**®  
INDUSTRY DEFINING SAFETY FOOTWEAR

SPECIFICATION: EN ISO 20345:2011 S3 WR SRC + EN 13832-2:2018 / Type U / K + L / 200J-A-E-WV-PY  
SIZE: UK 3-13 (WHOLE SIZES) | COLOUR: BLACK

100% NON-METALLIC, WITH PROTECTIVE TOECAP AND MIDSOLE, RHODIUM IS A CHEMICAL SPLASH RESISTANT BOOT DEVELOPED WITH SPECIALIST DURABILITY MATERIALS THAT ARE CERTIFIED TO PREVENT CORROSION, INCLUDING AN ACTIV-TEX® WATERPROOF MEMBRANE, ECO-LORICA MICROFIBRE UPPER AND SHOCK ABSORBING BASF PU OUTSOLE.

# RF250



### Upper Material

Eco-Lorica chemical resistant microfibre upper - tested against most common chemicals

### Protective Components

Protective fibreglass toecap and composite anti-penetration flexi-midsole

### Lining Materials

Activ-Tex® waterproof and breathable bootie membrane - tested for 8 hours (5 times longer than EN requirement)

### Scuff Cap and Outsole

BASF chemical resistant PU outsole - tested against most common chemicals

### Footbed

Anti-fatigue EVA footbed

SUBJECT TO CHANGE WITHOUT PRIOR NOTICE: 01/05/2021

Find this product at <https://www.rockfall.com/products/rhodium>

Browse all products at <https://www.rockfall.com/products>

PROUDLY MANUFACTURED BY ROCK FALL UK, MAJOR HOUSE, WIMSEY WAY, ALFRETON, DERBYSHIRE, DE55 4LS



Issued to:

Rock Fall UK Ltd  
Major House  
Unit 1/3 Wimsey Way  
Alfreton  
Derbyshire  
DE55 4LS  
UK

Notified Body: 2777

SATRA customer number: P1769

## EU Type-Examination Certificate

### Certificate number: 2777/14855-02/E00-00

This EU Type-Examination Certificate covers the following product group(s) supported by testing to the relevant standards/technical specifications and examination of the technical file documentation:  
Following the EU Type-Examination this product group has been shown to satisfy the applicable essential health and safety requirements of Annex II of the PPE Regulation (EU) 2016/425 as a Category III product.

Product reference:	Description:
RF250 Rhodium	5 plastic D ring ankle boot with upper of coated microfiber with a lining of synthetic lining with a Non-metallic toe cap and Non-Metallic perforation resistant insert material and dual density Pu/Pu outsole

**Sizes Range:** 36-48 European

**Classification:**

EN ISO 20345:2011 S3 WR SRC

EN ISO 13832-2:2018 Type U [K-L] 200J A E WV PY

Standards/Technical specifications applied:  
EN ISO 20345: 2011; EN 13832-2:2018

Technical reports/Approval documents:  
SATRA: FWT0285192/1920/1 FWT0285192/1920/LH. CTC: D16116287\_1, D180713401\_1, D180731117\_1, D130505705\_1, D180304110\_1, D180610330\_1, D130505704\_1, D130506046\_1, D180916915\_1, D16116287\_1, D191122283\_1, D190917664\_1, D170507566\_1, D17119587\_2. Intertek: GZHT90348803(S1).

Signed on behalf of SATRA:

Daniel Cotter

Geoff Graham

**Date first issued:** 28/07/2020

**Date of issue:** 04/09/2020

**Expiry date:** 28/07/2025

## EU DECLARATION OF CONFORMITY

Rock Fall UK, Major House,  
Unit 1/3, Wimsey Way,  
Alfreton, Derbyshire, DE55 4LS  
United Kingdom  
Tel: **01773 608616**  
Email: **sales@rockfall.com**  
**rockfall.com**

The manufacturer or his nominated representative established in the community;

**ROCK FALL UK LTD, WIMSEY WAY, ALFRETON, DERBYSHIRE, DE55 4LS, UNITED KINGDOM**

Declares that the PPE described hereafter;

### **ROCK FALL RF250 Rhodium**

Is in conformity with the provisions of PPE Regulation EU 2016/425 for **Category III** and, where such is the case, with the national standard transposing the union harmonised standard no. **EN ISO 20345:2011**

This declaration of conformity is issued under the sole responsibility of the manufacturer;

**ROCK FALL UK LTD, WIMSEY WAY, ALFRETON, DERBYSHIRE, DE55 4LS, UNITED KINGDOM**

Is identical to the PPE submitted to: **SATRA Technology Europe Ltd, Bracetown Business Park, Clonee D15YN2P. Notified Body 2777.** who performed the Eu type examination (Module B) and issued the EU type -examination certificate: **2777/14855-02/E00-00**

The PPE is subject to the procedure set out in **Module C2** of the PPE Regulation EU 2016/425 under the supervision of the notified body: **SATRA Technology Europe Ltd, Bracetown Business Park, Clonee D15YN2P. Notified Body 2777.**

Signature:



Position: Director

Date: 28/07/2020



**ECOLORICA**  
no limits for designers

# Upper Material

## Splash Test Results

Chemical	Test Length	Result
Acetic Acid 99%	5 Minutes	No corrosion to film, no penetration
Acetone	120 Minutes	Light corrosion to film, no penetration
Sodium Chloride 300g/l	120 Minutes	No corrosion to film, no penetration
Ferric Chloride 40%	120 Minutes	No corrosion to film, no penetration
Sodium Hydroxide	120 Minutes	Light corrosion to film, no penetration
Toluene	5 Minutes	Light corrosion to film, no penetration
Hydrogen Peroxide	5 Minutes	No corrosion to film, no penetration
Hydrochloric Acid 30%	120 Minutes	Light corrosion to film, no penetration
Sulphuric Acid 30%	120 Minutes	Light corrosion to film, no penetration
Isopropyl Alcohol	120 Minutes	Heavy corrosion of film, no penetration
Sodium Hypochlorite 30%	120 Minutes	No corrosion to film, no penetration
Ammonia 25%	120 Minutes	Light corrosion of film, no penetration
Methanol	120 Minutes	No corrosion to film, no penetration
Hexane	120 Minutes	No corrosion to film, no penetration
Sodium Percarbonate	30 Minutes	No corrosion to film, no penetration
Hydrofluoric Acid	10 Minutes	No corrosion to film, no penetration

## Outsole

 **BASF**  
We create chemistry

[Test Results \(EN 13832-3:2006\)](#)



**ECOLORICA**  
no limits for designers

## CHEMICAL RESISTANCE ECOLOR H\* FOR SAFETY S2 SHOES

CHEMICAL	CONCENTRATION	AFTER 5'	AFTER 2h
Sulphuric acid	95%	<ul style="list-style-type: none"><li>Corrodes finishing film</li><li>Light penetration in the back side</li></ul>	<ul style="list-style-type: none"><li>Corrodes completely the finishing film</li><li>High penetration in the back side (not complete)</li></ul>
Acetone		<ul style="list-style-type: none"><li>No corrosion of the finishing film</li><li>No penetration in the back side</li></ul>	<ul style="list-style-type: none"><li>Light corrosion if the finishing film</li><li>No penetration in the back side</li></ul>
Nitric acid	65%	<ul style="list-style-type: none"><li>Corrodes finishing film</li><li>Penetration in the back side</li></ul>	<ul style="list-style-type: none"><li>Corrodes completely the finishing film</li><li>Complete penetration in the back side</li></ul>
Sodium Hydroxide	30%	<ul style="list-style-type: none"><li>No corrosion of the finishing film</li><li>No penetration in the back side</li></ul>	<ul style="list-style-type: none"><li>Light corrosion if the finishing film</li><li>No penetration in the back side</li></ul>
Toulene		<ul style="list-style-type: none"><li>Light corrosion of the finishing film</li><li>No penetration in the back side</li></ul>	<ul style="list-style-type: none"><li>Corrodes the finishing film</li><li>No penetration in the back side</li></ul>
Hydrogen peroxide		<ul style="list-style-type: none"><li>No corrosion of the finishing film</li><li>No penetration in the back side</li></ul>	<ul style="list-style-type: none"><li>Light corrosion if the finishing film</li><li>Light penetration in the back side</li></ul>
Isopropyl Alcool		<ul style="list-style-type: none"><li>No corrosion of the finishing film</li><li>No penetration in the back side</li></ul>	<ul style="list-style-type: none"><li>Corrodes the finishing film</li><li>No penetration in the back side</li></ul>



**ECOLORICA**  
no limits for designers

## CHEMICAL RESISTANCE ECOLOR H\* FOR SAFETY S2 SHOES

Acetic acid	99%	<ul style="list-style-type: none"> <li>No corrosion of the finishing film</li> <li>No penetration in the back side</li> </ul>	<ul style="list-style-type: none"> <li>Light corrosion if the finishing film</li> <li>Penetration in the back side</li> </ul>
Sodium Hypochlorite	3%	<ul style="list-style-type: none"> <li>No corrosion of the finishing film</li> <li>No penetration in the back side</li> </ul>	<ul style="list-style-type: none"> <li>No corrosion if the finishing film</li> <li>No penetration in the back side</li> </ul>
Ammonia	25%	<ul style="list-style-type: none"> <li>No corrosion of the finishing film</li> <li>No penetration in the back side</li> </ul>	<ul style="list-style-type: none"> <li>Light corrosion if the finishing film</li> <li>No penetration in the back side</li> </ul>

\*Drop Test

### SPECIFIC TEST Hydrochloric acid 32% ECOLOR H color 0044/9990

Test		LIMIT	Value col. 9990	Value col. 0044	METHOD
Spessore/Thickness	Mm	1,55± 0,1 2,05± 0,1	1,52 2,03	1,54 2,02	UNI 2589
Resistance after 6 hour	200 cycles	4/5 Grey scale	5	43,1	UNI EN ISO 11640
Resistance after 12 hour			5	60,9	
Resistance after 18 hour			5	89,7	
Resistance after 24 hour			5	52,9	

Note	The test was made with the utilization of the "hydrochloric acid">32%, we have taken a sample with the standard production and divided in 4 different family and in different color, we have put on the surface the acid and increase the quantity when the acid was absorbed from the material, after we have made a test on veslic on 200 cycles and valutate if the surface was damage, before with a lens 10X after with grey scale
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Number: GZHT90461164

Applicant: BASF POLYURETHANES (CHINA) CO. LTD  
NO. 408, HUANSHI ROAD SOUTH,  
GUANGZHOU NANSHA ECONOMEIC  
& TECHNOLOGICAL DEVELOPMENT  
ZONE GUANG-DONG 511458,  
P.R. CHINA  
Attn: TERRY HU

Date: Oct 30, 2014

Sample Description:

Thirty (30) pieces of submitted sample said to be White PU materials used for sole.  
Standard : EN 13832-3: 2006  
Date Received/Date Test Started : From Aug. 22, 2014 to Sep. 17, 2014  
Date Final Information Confirm : Oct. 30, 2014

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at [gzfootwear@intertek.com](mailto:gzfootwear@intertek.com)

Authorized By:  
For Intertek Testing Services Shenzhen Ltd.  
Guangzhou GDD Branch



Huang Ning, Andy  
Assistant General Manager

AZ / mikaliang

**\*FJ90461164\***

Page 1 Of 10

**Intertek Testing Services Shenzhen Ltd. Guangzhou GDD Branch**

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Tel: (8620)2232 1668 / 8396 6868 Fax: (8620)8222 7490 Postcode:510730



Number: GZHT90461164

Tests Conducted (As Requested By The Applicant)

Footwear Protecting Against Chemicals (Sole)(BS EN 13832-1:2006(E),4.2)

		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 1			
Chemical Used:	Acetone (Letter Code: B)		
Tear Resistance:			
Before Degradation:	7.3 kN/m	-	-
After Degradation:	7.0 kN/m	Min. 6.4 kN/m	Pass
Hardness:			
Before Degradation:	45 Shore A	-	-
After Degradation:	38 Shore A	Min.: 30 Shore A Max.: *	Pass

		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 2:			
Chemical Used:	Dichloromethane (Letter Code: D)		
Tear Resistance:			
Before Degradation:	7.3 kN/m	-	-
After Degradation:	The Samples Were Too Strongly Affected By The Degradation Test So As To No Need To Perform This Test In Accordance With This Standard.	Min. 6.4 kN/m	-
Hardness:			
Before Degradation:	45 Shore A	-	-
After Degradation:	The Samples Were Too Strongly Affected By The Degradation Test So As To No Need To Perform This Test In Accordance With This Standard.	Min.: 30 Shore A Max.: *	-





Number: GZHT90461164

Tests Conducted (As Requested By The Applicant)

Footwear Protecting Against Chemicals (Sole)(BS EN 13832-1:2006(E),4.2) (Cont)

		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 3			
Chemical Used:	Toluene (Letter Code: F)		
Tear Resistance:			
Before Degradation:	7.3 kN/m	-	-
After Degradation:	5.1 kN/m	Min. 6.4 kN/m	Fail
Hardness:			
Before Degradation:	45 Shore A	-	-
After Degradation:	36 Shore A	Min.: 30 Shore A Max.: *	Pass
		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 4:			
Chemical Used:	Diethylamine (Letter Code: G)		
Tear Resistance:			
Before Degradation:	7.3 kN/m	-	-
After Degradation:	6.8 kN/m	Min. 6.4 kN/m	Pass
Hardness:			
Before Degradation:	43 Shore A	-	-
After Degradation:	37 Shore A	Min.: 30 Shore A Max.: *	Pass



Number: GZHT90461164

Tests Conducted (As Requested By The Applicant)

Footwear Protecting Against Chemicals (Sole)(BS EN 13832-1:2006(E),4.2) (Cont)

		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 5			
Chemical Used:	Tetrahydrofurane (Letter Code: H)		
Tear Resistance:			
Before Degradation:	7.6 kN/m	-	-
After Degradation:	6.4 kN/m	Min. 6.4 kN/m	Pass
Hardness:			
Before Degradation:	45 Shore A	-	-
After Degradation:	38 Shore A	Min.: 30 Shore A Max.: *	Pass
		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 6:			
Chemical Used:	Ethyl Acetane (Letter Code: I)		
Tear Resistance:			
Before Degradation:	7.6 kN/m	-	-
After Degradation:	6.1 kN/m	Min. 6.4 kN/m	Fail
Hardness:			
Before Degradation:	43 Shore A	-	-
After Degradation:	35 Shore A	Min.: 30 Shore A Max.: *	Pass



Number: GZHT90461164

Tests Conducted (As Requested By The Applicant)

Footwear Protecting Against Chemicals (Sole)(BS EN 13832-1:2006(E),4.2) (Cont)

		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 7			
Chemical Used:	n-Heptane (Letter Code: J)		
Tear Resistance:			
Before Degradation:	7.7 kN/m	-	-
After Degradation:	7.4 kN/m	Min. 6.4 kN/m	Pass
Hardness:			
Before Degradation:	45 Shore A	-	-
After Degradation:	40 Shore A	Min.: 30 Shore A Max.: *	Pass
		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 8:			
Chemical Used:	Sodim Hydroxide Solution 30% d = 1.33(Letter Code: K)		
Tear Resistance:			
Before Degradation:	7.8 kN/m	-	-
After Degradation:	7.6 kN/m	Min. 6.4 kN/m	Pass
Hardness:			
Before Degradation:	45 Shore A	-	-
After Degradation:	39 Shore A	Min.: 30 Shore A Max.: *	Pass



Number: GZHT90461164

Tests Conducted (As Requested By The Applicant)

Footwear Protecting Against Chemicals (Sole)(BS EN 13832-1:2006(E),4.2) (Cont)

		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 9			
Chemical Used:	Sulfuric Acid 95% d = 1.84 (Letter Code: L)		
Tear Resistance:			
Before Degradation:	7.5 kN/m	-	-
After Degradation:	The Samples Were Too Strongly Affected By The Degradation Test So As To No Need To Perform This Test In Accordance With This Standard.	Min. 6.4 kN/m	-
Hardness:			
Before Degradation:	45 Shore A	-	-
After Degradation:	The Samples Were Too Strongly Affected By The Degradation Test So As To No Need To Perform This Test In Accordance With This Standard.	Min.: 30 Shore A Max.: *	-



Number: GZHT90461164

Tests Conducted (As Requested By The Applicant)

Footwear Protecting Against Chemicals (Sole)(BS EN 13832-1:2006(E),4.2) (Cont)

		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 10:			
Chemical Used:	Nitric Acid (65±3)% (Letter Code: M)		
Tear Resistance:			
Before Degradation:	7.5 kN/m	-	-
After Degradation:	The Samples Were Too Strongly Affected By The Degradation Test So As To No Need To Perform This Test In Accordance With This Standard.	Min. 6.4 kN/m	-
Hardness:			
Before Degradation:	45 Shore A	-	-
After Degradation:	The Samples Were Too Strongly Affected By The Degradation Test So As To No Need To Perform This Test In Accordance With This Standard.	Min.: 30 Shore A Max.: *	-
		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 11			
Chemical Used:	Acetic Acid (99±1)% (Letter Code: N)		
Tear Resistance:			
Before Degradation:	6.4 kN/m	-	-
After Degradation:	2.7 kN/m	Min. 6.4 kN/m	Fail
Hardness:			
Before Degradation:	45 Shore A	-	-
After Degradation:	30 Shore A	Min.: 30 Shore A Max.: *	Pass



Number: GZHT90461164

Tests Conducted (As Requested By The Applicant)

Footwear Protecting Against Chemicals (Sole)(BS EN 13832-1:2006(E),4.2) (Cont)

		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 12:			
Chemical Used:	Ammonia Solution (25 ± 1)% (Letter Code: O)		
Tear Resistance:			
Before Degradation:	7.5 kN/m	-	-
After Degradation:	6.9 kN/m	Min. 6.4 kN/m	Pass
Hardness:			
Before Degradation:	46 Shore A	-	-
After Degradation:	42 Shore A	Min.: 30 Shore A Max.: *	Pass
		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 13			
Chemical Used:	Hydrogen Peroxide (30 ± 1)% v/v (Letter Code: P)		
Tear Resistance:			
Before Degradation:	7.8 kN/m	-	-
After Degradation:	7.4 kN/m	Min. 6.4 kN/m	Pass
Hardness:			
Before Degradation:	45 Shore A	-	-
After Degradation:	41 Shore A	Min.: 30 Shore A Max.: *	Pass



Number: GZHT90461164

Tests Conducted (As Requested By The Applicant)

Footwear Protecting Against Chemicals (Sole)(BS EN 13832-1:2006(E),4.2) (Cont)

		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 14:			
Chemical Used:	Lsopropanol (Letter Code: Q)		
Tear Resistance:			
Before Degradation:	7.5 kN/m	-	-
After Degradation:	7.3 kN/m	Min. 6.4 kN/m	Pass
Hardness:			
Before Degradation:	45 Shore A	-	-
After Degradation:	37 Shore A	Min.: 30 Shore A Max.: *	Pass
		<u>Requirement</u>	<u>Pass/Fail</u>
Sample 15			
Chemical Used:	Sodium Hypochlorite (13 ± 1)% (Of Active Chloride) (Letter Code: R)		
Tear Resistance:			
Before Degradation:	7.6 kN/m	-	-
After Degradation:	7.1 kN/m	Min. 6.4 kN/m	Pass
Hardness:			
Before Degradation:	48 Shore A	-	-
After Degradation:	43 Shore A	Min.: 30 Shore A Max.: *	Pass



Number: GZHT90461164

Tests Conducted (As Requested By The Applicant)

Footwear Protecting Against Chemicals (Sole)(BS EN 13832-1:2006(E),4.2) (Cont)

Remark: \* = Value Before Degradation +10 Shore A.
# = The Samples Were Too Strongly Affected By The Degradation Test So As To No Need To Perform This Test In Accordance With This Standard.

Table with 2 columns: Letter code, Chemical. Rows include Acetone, Dichloromethane, Toluene, Diethylamine, Tetrahydrofurane, Ethyl Acetate, n- Heptane, Sodium Hydroxide Solution 30% D=1.33, Sulfuric Acid 95% D=1.84, Nitric Acid (65±3)%, Acetic Acid (99±1)%, Ammonia Solution (25±1)%, Hydrogen Peroxide (30±1)% V/V, Lsopropanol, Sodium Hypochlorite (13±1)%(Of Active Chloride)

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you.





INDUSTRY DEFINING SAFETY FOOTWEAR

## Rock Fall Chemical Footwear User Instructions and Damage Assessment Guidelines

This Safety Footwear complies with PPE Regulation (EU) 2016/425 and meets the requirements of the European Standard EN ISO 20345:2011.

EU Module Type C2 assessed by SATRA Technology. Notified Body NB2777.  
SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, Co.  
Meath, D15 YN2P, Ireland.

This Safety Footwear complies with PPE Regulation (EU) 2016/425 as retained in UK law and meets the requirements of the European Standard EN ISO 20345:2011.

UKCA Module Type C2 assessed by SATRA Technology. Approved Body AB0321.  
SATRA Technology Centre Ltd, Wyndham Way, Telford Way, Kettering, Northamptonshire, NN16 8SD,  
United Kingdom.

**Wearer instructions:** You are using footwear for limited contact with chemicals. This product has been assessed according to EN 13832-2:2018. The footwear has been tested with different chemicals given in

the table below. The protection has been assessed under laboratory conditions and relates only to the chemicals given. The wearer should be aware that in case of contact with other chemicals or with ambient factors (e.g. high and low temperatures, rough or sharp surfaces), the protection given by the footwear may be adversely affected and necessary precautions should be taken. Frequent repeated short contact is not assessed by this standard.

<b>Product</b>	RF250 Rhodium	
<b>Standard</b>	EN 13832-2:2018 Type U	
<b>Chemical</b>	Sodium hydroxide 40 % (K)	Sulphuric acid 96 % (L)
<b>CAS No</b>	1310-73-2	7664-93-9
<b>Remark</b>	No major defects to upper	No major defects to upper

Type U footwear has been designed and manufactured to protect the wearer from chemicals by splashing on the upper. The contact time can be intermittent not exceeding one hour. In case, after a contact with chemical, the footwear shall be cleaned and checked before a further use.

### WARNING

**Disclaimer:** — This product is not intended to offer protection against chemicals that are immediately harmful upon contact with skin or that may lead to long- term health effects through a single incident or prolonged and/or repeated contact.

**Disclaimer:** — This product may not be safe for reuse after exposure to chemicals. Products that have previously been exposed to chemicals may not continue to provide an acceptable level of protection, and any damage caused by such exposure may not be apparent.

## Damage Assessment guidelines:

1) boots should be discarded if any of the following are discovered:

i) beginning of a pronounced and deep cracking affecting half the upper material thickness [see Figure 4a)];

ii) the upper shows areas with deformations, chemical burns, fusion or bubbles, or split seams [see Figure 4b)];

iii) upper/outsole separation of more than 10 mm long and 5 mm wide (and/or deep) [see Figure 4c)];

iv) the outsole shows cracks higher than 10 mm long and 3 mm wide (and/or deep) [see Figure 4d)];

v) cleat height in the flexing area lower than 1,5 mm [see Figure 4e)];

**NOTE** It is convenient to manually check the inside of the footwear from time to time in order to detect any deterioration of the lining or sharp borders of the toe protection which could cause wounds [see Figure 4 f)].

Dimensions in millimetres

Figure 4 – Damage Assessment guidelines

