Risk Assessment for RAPEX

General Information

Product	
Product name:	Telescopic ladders
Product category:	Climbing equipment
Description:	This is a PROSAFE risk assessment template for telescopic ladders for use in residential areas. Their most common use is presumed to be cleaning windows on 1st floor (at a height of 3 meters). It describes likely injury scenarios for the most common and risky non-compliances for telescopic ladders. The scenarios consider the following non-compliances: - Inadequate ladder locks, one-sided - Inadequate ladder locks, double-sided - Sideways stability
	How to use Users should select those scenarios that correspond to the non-compliances identified in the product under assessment. All other scenarios are deleted. The probabilities are estimated in the remaining scenarios. Users are reminded that the scenarios presented in the template are likely scenarios. Users should always assure that the scenarios do indeed give a good representation of the situation that is being assessed. This includes among other things checking that the scenario is suitable, that the steps are correct and that the injury level is appropriate.
	Disclaimer The template has been developed by a PROSAFE working group composed of market surveillance experts. The intention is to support market surveillance officials assessing the risk with a particular product as part of a market surveillance case. The template is not authorized or endorsed in any way and it is not binding for Member State market surveillance authorities. The contents of the original template is subject to change without notice.
Risk assessor	
First name:	PROSAFE Risk Assessment Template
Last name:	
Organisation:	PROSAFE

455015,
2 8080 996/997

Product risks - Overview

Scenario 1 :	Risk to be determined - A person climbs the ladder to a height
	of 3 meters. The ladder lock breaks or collapses on one side.
	The person loses balance, falls and gets multple fractures.

- Scenario 2 : **Risk to be determined -** A person climbs the ladder. The locks on both side break or collapse. The ladder folds with the person on it. One or more fingers of the user are trapped and amputated.
- Scenario 3 : **Risk to be determined -** A person stands on the ladder at a height of three meters (level of the person's feet). The person reaches to clean windows to one side. The ladder is unstable and starts to slide sideways. The person falls down and breaks a leg.

Overall risk :

Risk to be determined

Scenario 1 : Other consumers - Low mechanical stability

Product hazard

Hazard Group:	Potential energy
Hazard Type:	Low mechanical stability

Consumer

Consumer Type: Other consumers - Consumers other than vulnerable or very vulnerable consumers

How the hazard causes an injury to the consumer

Injury scenario: A person climbs the ladder to a height of 3 meters. The ladder lock breaks or collapses on one side. The person loses balance, falls and gets multple fractures.

Severity of Injury

.

Injury:	Frac	ture
Level:	3	Ankle Leg (femur and lower leg) Hip Thigh Skull Spine (minor compression fracture) Jaw (severe) Larynx Multiple rib fractures Blood or air in chest

Probability of the steps to injury					
	Step(s) to Injury	Probability			
Step 1:	The person climbs the ladder to a height of 3 meters (level of the person's feet - the normal height of first floor, most common situation).				
Step 2:	The locks break on one side. The probability can be determined from the the force required to break the lock as measured in the test report.				
Step 3:	The ladder topples.				
Step 4:	The person falls down and suffers multiple fractures. (Normally the probability for smaller fractures or concussion is higher than the probability of getting very severe injuries.)				

<u>Calculated probability:</u> <u>Overall probability:</u> <u>Risk of this scenario:</u> <u>To be determined</u> <u>To be determined</u> <u>Risk to be determined</u>

Scenario 2 : Other consumers - Low mechanical stability

Product hazard

Hazard Group:	Potential energy
Hazard Type:	Low mechanical stability

Consumer

Consumer Type: Other consumers - Consumers other than vulnerable or very vulnerable consumers

How the hazard causes an injury to the consumer

Injury scenario: A person climbs the ladder. The locks on both side break or collapse. The ladder folds with the person on it. One or more fingers of the user are trapped and amputated.

Severity of	Injury			
Injury:	Am	Amputation		
Level:	3	Finger(s) Toe(s) Hand Foot (Part of) Arm Leg Eye		

Step(s) to Injury

Probability

- Step 1: The persons climbs the ladder.
- Step 2: The ladder locks break or collapse in both sides. (The probability can be estimated from the breaking force as measured in the test report.)
- Step 3: The ladder folds (collapses).
- Step 4: The upper steps of the ladder hits the user's fingers. One or more fingers are amputated.

<u>Calculated probability:</u> <u>Overall probability:</u> <u>Risk of this scenario:</u> <u>To be determined</u> <u>To be determined</u> <u>Risk to be determined</u>

Scenario 3 : Other consumers - Low mechanical stability

Product hazard

Hazard Group:	Potential energy
Hazard Type:	Low mechanical stability

Consumer

Consumer Type: Other consumers - Consumers other than vulnerable or very vulnerable consumers

How the hazard causes an injury to the consumer

Injury scenario: A person stands on the ladder at a height of three meters (level of the person's feet). The person reaches to clean windows to one side. The ladder is unstable and starts to slide sideways. The person falls down and breaks a leg.

Severity of Injury

Injury:	Fracture		
Level:	3	Ankle Leg (femur and lower leg) Hip Thigh Skull Spine (minor compression fracture) Jaw (severe) Larynx Multiple rib fractures Blood or air in chest	

Probability of the steps to injury

	Step(s) to Injury	Probability
Step 1:	The persons stands on the ladder at a height of 3 meters (level of the person's feet - normal height of first floor). Probability = 1, normal use.	1
Step 2:	The person reaches to one side. Probability = 1, normal use.	1
Step 3:	The ladder slides sidewards. (The probability can be estimated examining the results in the test report.)	
Step 4:	The person notices too late and cannot correct.	
Step 5:	The ladder topples, and the person falls and breaks a leg.	

<u>Calculated probability:</u> <u>Overall probability:</u> <u>Risk of this scenario:</u> <u>To be determined</u> <u>To be determined</u> <u>Risk to be determined</u>