

General information

The shelter tool kit is specifically designed for distribution after a disaster in which the shelter capacities of the population have been affected.

It is designed for family distribution, one kit per family.

This kit includes tools and hardware, only.

The shelter tool kit is also included in the shelter kit, refer to item code KRELSHEK02.

Specifications

ROPE, polypropylene, black, 12mm diam., twisted	
Diameter:	12mm +/- 0.5mm
Length:	30m
Weight:	1.9kg
Number of strand:	3 minimum
Type:	twisted
Material:	polypropylene, no recycled fibres, UV stabilized
Colour:	black
Tensile strength:	300kg
HANSAW, for timber	
Type & dimensions:	carpenter handsaw, 400-450mm blade, lacquered, overall length 550mm +/- 50mm
Blade thickness:	1mm +/- 0.05mm, protected against oxidation
Blade protection:	protective cardboard, teeth protection with hard, plastic cover.
Seal type:	laminated carbon steel, hardened and tempered
Number of teeth:	7-teeth per inch
Quality of make:	Soft edges but no dents, cracks or broken teeth
Hardness Rockwell C:	45 to 50 HRC for the whole blade, 48 to 52 HRC at teeth level
Carbon content:	0.47% to 0.55%
Manganese content:	0.5% to 0.8%
Handle:	Wooden dismountable handle, minimum 3 fixations, polished varnish hardwood, large 85x35mm opening for hand comfort when wearing gloves. Optional 45/90° square.
Strength testing:	With the blade inserted into a 10mm-wide slot to a depth equal to 1/3 the blade's length, but not exceeding 150 mm, a deflection of 90° is applied 25 times in each direction without breakage or permanent set to the blade.
NAIL, FOR ROOF SHEETS, galvanized with watertight rubber washer, umbrella type	
Type:	iron nails, made of polished low-carbon steel, cold processed, not heat treated except for galvanization.
Shape:	spiral rolled or twisted shank, sealed umbrella-type spring-head.
Corrosion treatment:	hot-dip galvanized at 300g/m ² +/-10%
Tensile strength:	minimum 650N/mm ²
Accessories:	attached rubber washer to each nail
Dimensions (+/-5%):	shank: 75x3.6mm, head diameter: 22mm
Rubber washer:	diameter 26mm x thickness 2mm
Packing:	packed in a strong, thick plastic bag
Quantity:	net weight: 0.5kg
SHOVEL, round point with Y handle	
Material:	Pressed carbon-steel, hardened and tempered
Corrosion protection:	black paint
Quality of make:	no excess metal in the eye, no dents, no cracks, soft edges
Hardness Rockwell C:	35 minimum to 48 maximum HRC
Carbon content:	0.4% to 0.5%
Manganese content:	0.5% to 0.8%
Silicone:	0.25% maximum
Phosphorus & Sulphur:	0.06% maximum

Dimensions, full piece:	295 x 225mm
Hole diameter:	front side 36mm, back side 40mm
Weight:	1kg +/- 50g, without handle
Strength testing:	
<p>- Using a fitted, standard hardwood handle, clamp the blade of the shovel near the handle in a horizontal position. Gradually apply a load of 45kg and maintain it for 2 minutes. This should not result in any damage to the blade or a loosening of the handle, and no permanent set in excess of 25mm.</p> <p>- With one centimetre of the end of the blade secured in a clamp, move the handle back and forth 30 degrees. There should be no permanent set greater than 25mm.</p> <p>With the shovel held in a digging position, a 37mm in diameter piece of wood is hit hard against it. The blade should not buckle or break.</p>	
Handle:	
<p>No chips, rough surfaces, holes or knots. Smooth, polished varnish surface. Dry, strong and flexible wood. Handle adapted to head so that it protrudes and can be blocked with a nail from the other side of the hammer-head eye. Total length 1070mm +/- 50mm.</p> <p>The other end of the handle is made in a Y-shape with same quality of wood. The branches of the Y handle must be made in one piece only, of good-quality iron, securely fitted to the handle.</p>	
HOE, with long handle, large type	
Material:	not forged carbon steel, hardened and tempered, at a maximum the hardened zone should reach halfway up the back of the blade
Corrosion protection:	black paint
Quality of make:	no excess metal in the eye, no dent on the cutting edge, reinforced head with a rib from the eye to the middle of the blade length
Hardness Rockwell C:	35 minimum to 48 maximum HRC in hardened zone of the blade
Carbon content:	0.4% to 0.5%
Manganese content:	0.5% to 0.8%
Silicone:	0.25% maximum
Phosphorus & Sulphur:	0.06% maximum
Dimensions, full piece:	180 x 240 mm
Hole diameter:	high raised neck, front side 43 mm, back side 48 mm +/- 2mm
Weight:	1.250kg +/- 150g, without handle, depending on the type of hoe
Strength testing:	
<p>- Using a fitted, standard hardwood handle, clamp the blade of the shovel near the handle in a horizontal position. Gradually apply a load of 45kg and maintain it for 2 minutes. This should not result in any damage to the blade or a loosening of the handle, and no permanent set in excess of 25mm.</p> <p>- With one centimetre of the end of the blade secured in a clamp, move the handle back and forth 30 degrees. There should be no permanent set greater than 25mm.</p> <p>With the hoe held in a digging position, a 37mm in diameter piece of wood is hit hard against it. The blade should not buckle or break</p>	
Handle:	
<p>No chips, rough surfaces, holes or knots. Smooth, polished varnish surface. Dry, strong, and flexible wood. Handle adapted to head so that it protrudes from and blocks on the other side of the head. Total length 1100mm to 1200mm.</p>	
MACHETTE	
Type:	curved blade, 405mm/16", lacquered against oxidation, overall length 55cm
Blade thickness:	2.5mm thick with 3 grooves that runs the full length of the blade to key in the handle
Handle:	wooden handle with 3 steel rivets plus washers
Material:	hot forged carbon steel, hardened and tempered, hardened throughout the entire blade, but remains normal past the first rivet hole.
Protection:	blade packed in carton pocket for protection.
Quality of make:	no dent on the cutting edge

Hardness Rockwell C:	45 minimum to 50 maximum HRC near cutting edge, test 3 positions along the cutting edge
Carbon content:	0.6% to 0.65%
Manganese content:	0.6% to 0.8%
Silicone:	0.30% maximum
Phosphorus & Sulphur:	0.03% maximum
Handle:	
No chips, rough surfaces, holes or knots. Smooth, polished varnish surface. Dry, strong, hardwood.	
Strength testing:	
Insert the blade in a 10mm-wide slot up to a depth equal to 1/3 its blade length, but not exceeding 150mm; apply a deflection of 45° in each direction without breakage or permanent set to the blade.	
SHEARS, straight, for metal sheet, semi-hard 0.8mm max., 260mm	
Type:	tin snips for intensive use and easy maintenance
Make:	each blade and handle forged as one piece, symmetrical blades
Capacity:	up to 0.8mm semi-hard iron sheet
Material:	hot forged carbon steel, hardened and tempered, special treatment applied to the blade edge
Rustproof:	protected against corrosion with special paint
Dimensions:	overall length: 260mm +/-2mm
Maintenance:	dismountable in 2 parts only, with bolt and self locking nut
NAIL, iron, for wood, large	
Type:	iron nails, made of polished low-carbon steel, cold processed, not heat treated except for galvanization
Rustproof:	hot dip galvanized at 300g/m ² +/-10%
Tensile strength:	minimum 650N/mm ²
Shape:	flat, smooth, circular head; plain, round shank and diamond point
Dimensions (+/-5%):	length x diameter: 75x3.6mm, head diameter: 7.7mm
Packing:	packed in strong, thick plastic bag.
Quantity:	net weight: 0.5kg per type
NAIL, iron, for wood, small	
Type:	iron nails, made of polished low carbon steel, cold processed, not heat treated except for galvanisation.
Rustproof:	hot dip galvanized at 300g/m ² +/-10%
Tensile strength:	minimum 650N/mm ²
Shape:	flat smooth circular head, plain round shank and diamond point.
Dimensions (+/-5%):	length x diameter: 40x2.2mm, head diameter: 5.5mm
Packing:	packed in strong thick plastic bag.
Quantity:	net weight: 0.5kg per type
TIE WIRE, galvanised, diam. 1.5 mm, 25m, roll	
Material	low carbon steel, galvanised binding /tie wire.
Quantity	roll of 25m.
Dimension	diameter 1.5mm +/-5%
Tensile strength	minimum 500 N/mm ² to Maximum 700N/mm ²
CLAW HAMMER	
Type:	carpenter hammer, head and handle, hammer head with flat and claw side
Material:	high-carbon steel head, treated to achieve a martensitic structure, with dressed striking faces
Quality of make:	smooth surface and edges with no dents or cracks; no excess metal in the eye
Weight of the head:	750g +/- 1%
Hardness Rockwell C:	50 minimum to 58 maximum HRC on striking faces
Hardness Rockwell C:	35 maximum HRC closed to the eye
Handle: No chips, rough surfaces, holes or knots. Smooth, polished varnish surface. Dry, strong, and flexible wood. Handle adapted to head so that it protrudes and can be blocked on other side with a metal wedge on the other side of the head. Moisture minimum 10%, maximum 15%.	
Pull-apart test: After two series of 25 vigorous blows with varying delivery angle, secure head in a clamp, apply a minimum traction of 50kg trying to pull the handle out. This should not damage the hammer head or	

the handle, and the handle should remain firmly attached to the head.

Bending test: For the claw hammer only, apply a load perpendicularly to the axis of the handle and close to the end, so as to obtain a 125Nm torque, irrespective of the size of the hammer. Start the load at zero and increase gradually, without jerking. Hold the test load for at least 10s. This should not create any damage to the hammer head or handle.

POLYPROPYLENE BAG (1 bag per kit)

Material:	new, woven polypropylene (PP), 80g/m ² minimum, both sides coated with PE or PP
Dimensions:	1300x400mm +/-10mm
Colour:	white
Includes a copy of the content list for the shelter kit.	
Tarpaulins are not packed in this bag.	

CARTON (includes 2 kits)

Type:	double-walled corrugated cardboard.
Reinforcement:	corners reinforced with 4 double-walled, corrugated-cardboard, folded corners equal to the total height of the carton
Dimensions:	1.2 x 0.3 x 0.2m
Sealing:	sealed with adhesive tape plus 4 heat-sealed 10mm plastic straps.
Quality:	loaded cartons should withstand 2m-high stacking on pallets, and several handlings (hand and forklift) without damage
One carton includes two kits.	
Tarpaulins are packed separately.	

Content list
Code

Description

Qty

<u>HSHEROPE12PB</u>	ROPE, POLYPROPYLENE, black, diam. 12mm, twisted	30
<u>ETOOSAWSW400</u>	SAW, for timber, 400mm blade	1
<u>EHDWNAILRS01</u>	NAIL, FOR ROOF SHEETS, galvanised + watertight washer 0.5kg	1
<u>RAGRTOOLSHO2</u>	SHOVEL, round point with Y handle, total length 1070mm +/-50mm	1
<u>RAGRTOOLHOE3</u>	HOE, with long handle, large type	1
<u>RAGRTOOLMAC1</u>	MACHETTE, length 495mm, wooden handle	1
<u>ETOOOCUTTSHE1</u>	SHEARS, straight, for metal sheet, semi-hard 0.8mm max., 255mm	1
<u>EHDWNAILW080</u>	NAIL, iron, for wood, 75mm, 0.5kg	1
<u>EHDWNAILW040</u>	NAIL, iron, for wood, 40mm, 0.5 kg	1
<u>EHDWWIRETR15</u>	TIE WIRE, galvanised, diam. 1.5 mm, 25m, roll	1
<u>ETOOHAMMCARW</u>	HAMMER, nail claw, carpenter type, 750g, wood handle	1
	BAG, polypropylene 80g/m ² , coated, 1300x400mm	1