

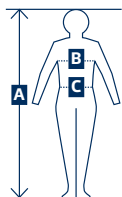
fabric might fade in time. If in case of doubt about performance, please consult your safety officer for further guidance and/or replace the garment.

Correct product use

Please be aware of the following:

- Only a complete suit, whose components provide the same level of protection, will ensure the wearer's safety, suit is defined as a coverall or the combination of either jacket and trousers or a bib and braces.
- The garments (e.g., jacket) can be sold separately.
- Wear this garment closed at all times, using adjustments at the wrists, ankles, and waist, when provided.
- This garment does not offer protection for the head, hands, and feet. Make sure you use the appropriate PPE for these parts of your body.
- Soiling will change the characteristics of the garment. Regular and thorough cleaning provides for the garment's continued performance (see care instructions).
- Damage to this garment (holes and tears) will likely diminish the protection it provides. Regular checks on damage and wear and, if necessary, repairing or replacing the garment will ensure your protection.
- If repairs, alterations, or augmentations (e.g. adding badges) are required, entrust this work to professionals. Use the materials used in original production and take into account the design limitations imposed by applicable safety standards.
- This garment is suitable for wear during an entire workday and contains no toxic, carcinogenic, mutagenic, or other substances that adversely affect the health and hygiene of the wearer. There are no known allergic reactions due to skin contact with this garment.
- The garments can be recycled through the appropriate channels in your country. Ultimately, the wearer of the garments is responsible for his own safety. The garments can be recycled through the appropriate channels in your country.

Size indication



All sizes indicated in this pictogram are measured on the wearer and differ from the garment's measurements.

A = Total height (cm)
B = Chest (cm)
C = Waist (cm)

Reference

ScanPolar HV is the general reference for the clothing produced by Scandia according to the standards described. You will also find a specific product reference on the label.

Care and maintenance instructions

- The frequency of cleaning should be relative to use and to the degree of soiling.
- To avoid damaging the garment, it is recommended that the wearer close the garment's fastenings and turn the garment inside out before washing.
- Machine washing should involve limited mechanical action to avoid damaging any of the garment's reflective material.
- Rinse the garment thoroughly after washing to remove all laundry detergent residue. Do not use fabric softeners.
- Remove stains quickly and wash soiled garments immediately. If necessary, use perchlorine-ethylene to clean heavily soiled garments.
- Contact Scandia for information about washing garments in industrial laundry facilities.

	Machine wash warm 40°C or 104°F. Maximum of 25 washing cycles for reflective tape. Remark: washing at lower temperatures will improve the service life of the garments. The service life will also be influenced by the type and dosage of the detergents used. Reduce your footprint: wash less, save water and energy.
	Do not bleach (also do not use chlorine based agents).
	Do not tumble dry.
	Do not iron.
	Do not dry clean.

Disclaimer

Scandia is not liable for damages that result from the improper use or abuse of this garment or as a result of not following instructions concerning proper maintenance and wear.

Made with 100% recycled paper

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SCANPOLAR HV

Waterproof Winter Clothing | High-Viz



User's Instruction

www.scandiegear.com

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SINCE 1974

MARITIME OUTFITTERS

Scandia

SCANPOLAR HV

High visibility, waterproof winter clothing

The clothing referred to in these instructions, complies with the essential requirements of the EU Regulation 2016/425 concerning Personal Protective Equipment (PPE). The harmonized standards EN ISO 13688 (2013+A1:2021), EN 342 (2017), EN 343 (2019), and EN ISO 20471:2013+A1:2016 were used for certification of this garment.

Reference

Winter jacket: ScanPolar HV 001

Winter trousers: ScanPolar HV 002

The EU Declaration of Conformity (DOC) can be found at the Scandia Gear website (www.scandiegear.com), under the Scandia product name ScanPolar HV 001 or ScanPolar HV 002 through the link "Declaration of Conformity".

This garment's certification was conducted by the following notified body:

SGS Fimko Ltd, Takomotie 8,

FI-00380 Helsinki – Finland (N.B. 0598)

Read these instructions carefully prior to first use and store them for future reference.

Application

This garment is designed to protect against decreased visibility and cold, rain, and wet weather conditions.



Icler
0,454
(B)
3
WP

EN342:2017 - protective clothing: protection against cold

Icler: Insulation value (in M2.K/W) of the single garment or ensemble with standard reference clothing. See table below for wearing times.
3: Classification of the air permeability, see table below.

WP: Classification of the water resistance to, water penetration.

Note: For practical reasons the maximum guaranteed performance is set at -50 °C.

Clothing insulation values and ambient temperature conditions (in °Celsius) for heat balance at different activity levels and for the duration of exposure:

Insulation Icler (m².K/W)	Wearer's moving activity							
	Light 115 W/m²				Medium 170 W/m²			
	Air velocity							
	0,4 m/s		3 m/s		0,4 m/s		3 m/s	
	8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h
0,265	3	-12	9	-3	-12	-28	-2	-16
0,310	-2	-18	6	-8	-18	-36	-7	-22
0,390	-9	-28	0	-16	-29	-49	-16	-33
0,470	-17	-38	-6	-24	-40	-60	-24	-43
0,540	-24	-45	-11	-30	-49	-71	-32	-52
0,620	-31	-55	-17	-38	-60	-84	-40	-61

Note: These temperature values are valid only with even distribution of insulation on the body, adequate hand-, foot-, and head protection, and an air velocity between 0,3 m/s and 0,5 m/s. Higher wind speeds will increase the effects of wind chill.

Standard underwear (Type B) for ensembles consists of:

- Undershirt with long sleeves
- Long underpants
- Socks (up to the knee)
- Thermal shoe covers
- Thermal jacket
- Thermal trousers
- Knitted gloves
- Balaclava

Note: The thermal insulation value was obtained by testing a ScanPolar Jacket and Trousers combination.

Air permeability classes:

AP (mm/s)	Class
100 < AP	1
5 < AP ≤ 100	2
AP ≤ 5	3

Warning: Thermal insulation may decrease after garment washing and cleaning.



EN 343
:2019

EN343:2019 - protective clothing: protection against rain

4: protection level for water penetration of fabric and seams (4 classes - of which 4 is the best performance).

1: protection level for water vapour resistance (4 classes of which 4 is the best performance).

R: Raintower test (optional) X means "not tested"

As the breathability of the garment is limited (class 1), it is recommended to limit the continuous wearing time. The table below should be used as a guideline:

Recommended maximum continuous wearing time for a complete suit consisting of jacket and trousers without thermal lining				
Temperature of working environment	Class 1 Ret above 40	Class 2 25 < Ret ≤ 40	Class 3 15 < Ret ≤ 25	Class 4 Ret ≤ 15
25 °C	60 min	105 min	180 min	No limit
20 °C	75 min	250 min	No limit	No limit
15 °C	100 min	No limit	No limit	No limit
10 °C	240 min	No limit	No limit	No limit
5 °C	No limit	No limit	No limit	No limit

Table valid for medium physiological strain M = 150 W/m², standard man, at 50% relative humidity and wind speed of 0,5 m/s.

EN ISO 20471:2013+A1:2016 - high visibility warning clothing for professional use

This Standard specifies requirements for High Visibility garments capable of signaling the user's presence visually. This clothing provides conspicuity of the user in hazardous situations under any light conditions by day (fluorescent material) and under illumination by vehicle headlight in the dark (reflective material). The fluorescent fabric was washed 5 times prior to testing of the fluorescent properties.

Below pictogram on the garment indicates compliance with EN ISO 20471.



EN ISO 20471
:2013+A1:2016

X: Classification of the applied surface of fluorescent and retro reflective material.

Classes 1 to 3 (of which class 3 is the highest achievable class).

Jacket ScanPolar HV 001 conforms to class 2. Trousers ScanPolar HV 002 conforms to class 1. Wearing both jacket and trousers together conforms to class 3

EN ISO 20471 classification of fluorescent and retroreflective surface (X):			
	Class 1	Class 2	Class 3
Fluorescent material	0,14 m²	0,50 m²	0,80 m²
Reflective tape	0,10 m²	0,13 m²	0,20 m²

Warning:

- The garments should not be covered with non-high visibility garments or accessories (e.g. logos).
- As a result of wearing and washing, the fluorescent