

VILPE®

Innovative and Easy



Picture: Westpro & Portus

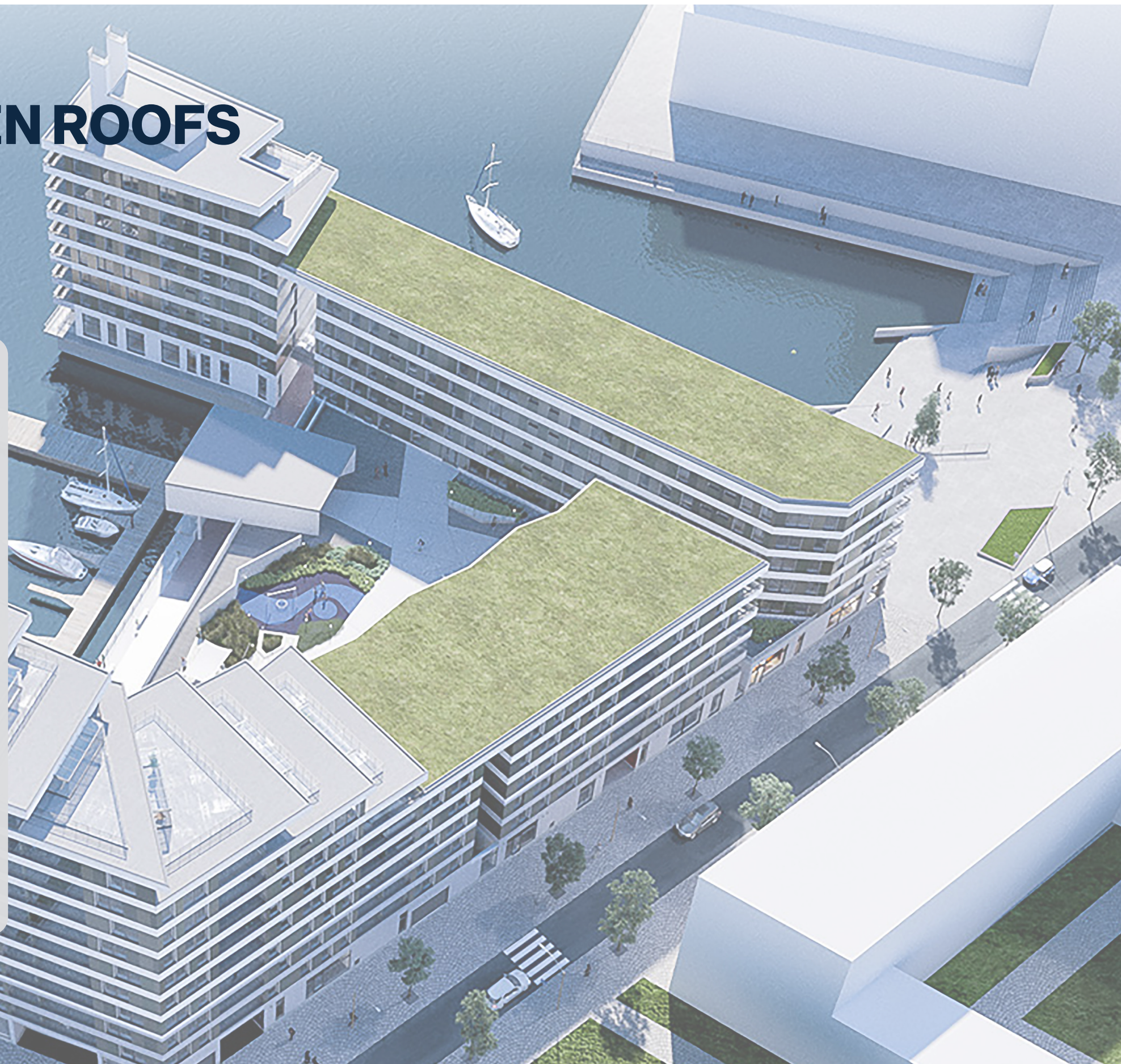
SOLUTIONS FOR GREEN ROOFS

PRODUCTS FOR PROBLEM-FREE GREEN ROOFS

Green roofs have become popular throughout Europe, as they provide not only beautiful green spaces to often gray environments, but also functionality, such as a silencing effect to the noise of the city. However, green roofs require more effort than conventional roofs, as they place extra demands on proper planning, product selection, construction and maintenance.

The main risk of a green roof is the risk of water damages, making it important to make sure water is effectively removed from the roof. VILPE offers a wide range of products for green roofs to combat problems with water and humidity. In our assortment, you will find Alipai underpressure vents that ventilate the roof and prevents humidity problems as well as high-class roof drains and accessories to make sure water is removed from the roof.

VILPE Sense is our smart system for humidity control and it relies on the latest IoT-technology. The system is designed to do two things. First, it detects hard-to-find leaks before they cause bigger problems on the roof, and second, it automatically monitors and removes moisture from the insulation layer when needed. Using the right roof products and right construction methods – your green roof will remain problem-free and long-lasting.



UNDERPRESSURE VENTS ALLOW YOUR GREEN ROOF TO BREATHE



VILPE Alipai low pressure vents dry the insulation layer

Alipai low pressure air vents ventilate the roof structures and ensures efficient removal of moisture. Moisture is typically accumulated in wood, concrete and other building materials during the building phase, but it can also derive from leaks in structures. The function of the Alipai low pressure air vent is based upon the differential air pressure generated by wind. The unique structure of the Alipai generates additional draught in the vent pipe which in turn increases the air flow rate.

If the roof is not ventilated properly, moist air that arises from the building to the roof can condense and cause moisture in the thermal insulation of the roof. Excessive moisture promotes the growth of fungi, moulds and micro-organisms, destroying the structures of the house.



Photo: Eg-Tradeing Oy

VILPE® ALIPAI FLOW 110 UNDERPRESSURE AIR VENT

Description: Underpressure ventilation pipe for ventilating roof structures of a low-pitched felt roof. Installed with hot bitumen between two felt layers.
Dimensions: Ø 110 mm, height 476 mm. Width of the flange 150 mm.
Contents: Underpressure ventilation pipe, FLOW-cowl.

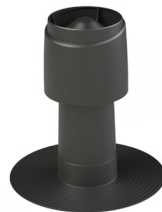
Color	Pcs/pack	Pcs/pll.	Delivery	Product No.
Black	11	88*	Stock	732102
Dark grey	11	88*	Stock	732107
Light Grey	11	88*	Stock	732101



VILPE® ALIPAI FLOW 160 UNDERPRESSURE AIR VENT

Description: Underpressure ventilation pipe for ventilating roof structures of a low-pitched felt roof. Installed with hot bitumen between two felt layers.
Dimensions: Ø 160 mm, height 509 mm. Width of the flange 150 mm.
Contents: Underpressure ventilation pipe, FLOW-cowl.

Black	6	48*	Stock	730162
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VILPE® ALIPAI FLOW LOW-PITCHED/INCLINED

Description: Underpressure air vent for ventilating roof structures of a gently sloping felt roof (with pitch of 0–20 degrees).
Dimensions: Height 665/668/1022 mm, stem height 200 mm.
Contents: Felt Tall pass-through, underpressure air vent pipe, FLOW-cowl, screws.

Black (Ø160/668)	5	48*	Stock	730172
Black (Ø160/1022)	3	24*	Stock	730202



VILPE® PVC COLLAR for ALIPAI 110 UNDERPRESSURE AIR VENT



Description: For facilitating installation of Alipai underpressure air vent to PVC roofing. Fastened to roofing by welding with hot air. Fastened to Alipai with included clamp.
Dimensions: Ø 110 mm.
Contents: PVC collar, clamp.

Dark grey	10	Stock	730102
Light Grey	10	Stock	730103



Water-proof pass-throughs for green roofs

VILPE offers a range of pass-throughs of EPDM that fit green roofs. The flexible EPDM rubber in the seals allow the best possible adhesion with the roofing, meaning that the product can withstand larger roof and pipe movements.

	Model	Pcs/pack	Pcs/pll.	Delivery	Product No.	
VILPE® FELT ROOF SEAL Description: Roof pass-through seal for round pipes on felt roof. Made of EPDM rubber. Operating temperature -30...+90°C. The flange is installed with hot bitumen between two felt layers. Dimensions: Height 150 mm. The opening is cut according to the pipe diameter. Contents: Seal, clamp.	NO-1 Ø 12/19/25/38	20	480*	Stock	70040	
	NO-2 Ø 50/60	20	480*	Stock	70060	
	NO-3 Ø 75/90	20	480*	Stock	70090	
	NO-4 Ø 110/125	20	480*	Stock	70125	
	NO-4.5 Ø 130/140	20	480*	Stock	70130	
	NO-5 Ø 150/175	10	480*	Stock	70175	
	NO-6 Ø 200/250	10	300*	Stock	70250	
	NO-7 Ø 275/325		50	Stock	70325	
	NO-8 Ø 350/400	20	50	Stock	70400	
	NO-9 Ø 500/525/550/575	1	20	Stock	71050	
	NO-10 Ø 600/625/650/675	1	20	Stock	71060	
	NO-11 Ø 700/725/750/775	1	20	Stock	71070	
	NO-12 Ø 800/825/850/875	1	20	Stock	71080	
VILPE® CLAMP Description: Screw-on hot galvanized clamp for fixing the VILPE® Felt roof seal. Dimensions: Width 12 mm. Contents: Clamp.	Ø 24-44		15000	Stock	711601	
	Ø 50-145	50	3000	Stock	711714	
	Ø 50-215	50	3000	Stock	711721	
	Ø 50-370	50	3000	Stock	711737	
	Ø 70-570		3000	Stock	711757	
	Ø 630	150	150	Stock	711663	
	Ø 730	150	150	Stock	711673	
	Ø 830	150	150	Stock	711683	
VILPE® R-FELT SET Description: For sealing roof pass-throughs for round pipes on felt roof while retrofitting. Contents: Seal, clamp.	Ø 19-90	1	84	Stock	70510	
	Ø 110-170	1	48	Stock	70514	
	Ø 160-250	1	24	Stock	70518	
VILPE® RHS SEAL Description: For sealing pass-throughs for square pipes on felt roof. The clamp is chosen according to the pipe size. Contents: Seal.	40x40/50x50/60x60/70x70	20	480*	Stock	71090	
	80x80/100x100/120x120/140x140	10	480*	Stock	71094	



VILPE® RHS-FELT RETROFIT 80-150

Description: For sealing roof pass-through for square pipes on felt roof while retrofitting. Patented installation solution.
Content: Seal.

VILPE® RHS CLAMP

Description: Hot-dip-galvanized clamp for fixing square VILPE® RHS Seal. The clamp is chosen according to the pipe size.
Contents: Two-piece clamp.

VILPE® COLLAR EPDM for FELT TALL PASS-THROUGH

Description: For easy installation of Felt Tall pass-through on EPDM roofing.
Contents: Collar made of EPDM material.

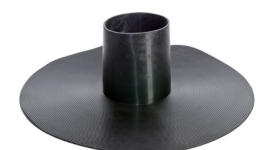
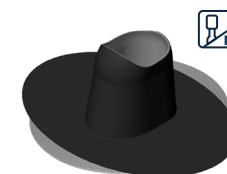
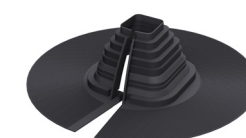
VILPE® VAPOUR BARRIER SEAL

Description: For sealing the vapour barrier.
Dimensions: Height 33 mm.
Contents: Seal made of EPDM rubber.

VILPE® VAPOUR BARRIER SEAL, TALL



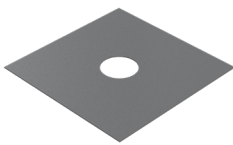
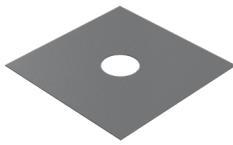

Description: For sealing the vapour barrier.
Dimensions: Height 133 mm.
Contents: Seal made of EPDM rubber.

Model	Pcs/pack	Pcs/pll.	Delivery	Product No.
Ø 80-150			Stock	71745
40 X 40		1200*	Stock	711198
50 X 50		1200*	Stock	71120
60 X 60		1200*	Stock	71122
70 X 70		1200*	Stock	71123
80 X 80		1200*	Stock	71124
90 X 90		1200*	Stock	71125
100 X 100		1200*	Stock	71126
120 X 120		1200*	Stock	71128
140 X 140		1200*	Stock	711282
150 X 150		1200*	Stock	711284



Effective water management on your green roof

Roof drains must be placed and installed so that they are easy to maintain. Maintenance should be performed at least twice a year. Soil and vegetation on the green roof must be prevented from clogging the roof drains, for instance with protective zone around the roof drains. It is also important to ensure that water is effectively led away from the roof, as excess water can damage the green roof and its structures.

	Model	Product number	
HEATING ELEMENT FOR A MODEL ROOF DRAINS Applications: A self-adjusting heating element to prevent roof drains from freezing. Contents: Heating element, 1-m connection cable and protective cup.	A-75 14W	392005	
	A-110 14W	392007	
	A-160 14W	392008	
	A-160 32W	392009	
HEATING ELEMENT FOR C MODEL ROOF DRAINS Applications: A self-adjusting heating element to prevent roof drains from freezing. Contents: Heating element, 1-m connection cable and protective cup.	C-75 14W	392000	
	C-110 14W	392002	
	C-160 14W	392003	
	C-160 32W	392004	
BITUMEN FLANGE FOR ROOF DRAIN Applications: A factory-installed bitumen flange speeds up installation on bitumen sheet covering and ensures water-proof fastening of the drain. Compatible with a 75–90 HST roof drain. Dimensions: 500x500 mm Contents: Bitumen flange	75-90	392210	
	110	392211	
	160/A	392212	
BITUMEN FLANGE FOR ROOF DRAIN Applications: A factory-installed bitumen flange speeds up installation on bitumen sheet covering and ensures water-proof fastening of the drain. Compatible with a 75–90 HST roof drain. Dimensions: 500x500 mm Contents: Bitumen flange	75-90	392210	
	110	392211	
	160/A	392212	
CONDENSATION INSULATION FOR MODEL A ROOF DRAIN Applications: Prevents condensation in roof drains. The insulation material is installed outside the pipe and around the collecting basin. Dimensions: Insulation thickness 13 mm. Contents: Condensation insulation	Model	Product No.	
	A-75 350	395001	
	A-75 600	395002	
	A-75 750	395003	
CONDENSATION INSULATION FOR MODEL C ROOF DRAIN Applications: Prevents condensation in roof drains. The insulation material is installed outside the pipe. Dimensions: Insulation thickness 13 mm. Contents: Condensation insulation	Model	Product No.	
	C-75 350	395101	
	C-75 600	395102	
	C-75 750	395103	
	A-75 1000	395004	
	A-110 350	395021	
	A-110 600	395022	
	A-110 750	395023	
	A-110 1000	395024	
	C-110 350	395121	
	C-110 600	395122	
	C-110 750	395123	
	C-110 1000	395124	
	C-160 350	395131	
	C-160 600	395132	
	C-160 750	395133	
	A-160 350	395031	
	A-160 600	395032	
	A-160 750	395033	
	A-160 1000	395034	
	C-160 1000	395134	

PLASTIC LEAF GRATING FOR MODEL A ROOF DRAIN

Applications: Prevents leaves and debris from entering the roof drain. Compatible with 75–160-mm model A roof drain
Contents: Plastic leaf grating

PLASTIC LEAF GRATING FOR MODEL C ROOF DRAIN

Applications: Prevents leaves and debris from entering the roof drain. Compatible with model C roof drains.
Contents: Plastic leaf grating

Model A roof drains

ACID-RESISTANT STEEL ROOF DRAIN, MODEL A Ø 75

Applications: A roof drain with primed flanging for gently sloping roofs. Model A roof drains have a collecting basin. A model A leaf grating included.
Contents: Roof drain, plastic leaf grating.

ACID-RESISTANT STEEL ROOF DRAIN, MODEL A Ø 110

Applications: A roof drain with primed flanging for gently sloping roofs. Model A roof drains have a collecting basin. A model A leaf grating included.
Contents: Roof drain, plastic leaf grating.

ACID-RESISTANT STEEL ROOF DRAIN, MODEL A Ø 160

Applications: A roof drain with primed flanging for gently sloping roofs. Model A roof drains have a collecting basin. A model A leaf grating included.
Contents: Roof drain, plastic leaf grating.

Model C roof drains

ACID-RESISTANT STEEL ROOF DRAIN, MODEL C Ø 75

Applications: A roof drain with primed flanging for gently sloping roofs. A model C leaf grating included.
Contents: Roof drain, plastic leaf grating

ACID-RESISTANT STEEL ROOF DRAIN, MODEL C Ø 90

Applications: A roof drain with primed flanging for gently sloping roofs. A model C leaf grating included.
Contents: Roof drain, plastic leaf grating

ACID-RESISTANT STEEL ROOF DRAIN, MODEL C Ø 110

Applications: A roof drain with primed flanging for gently sloping roofs. A model C leaf grating included.
Contents: Roof drain, plastic leaf grating

ACID-RESISTANT STEEL ROOF DRAIN, MODEL C Ø 160

Applications: A roof drain with primed flanging for gently sloping roofs. A model C leaf grating included.
Contents: Roof drain, plastic leaf grating

Model

Product number

A 75–160 392209



C-75 392205

C-90 392206

C-110 392207

C-160 392208



Length

Product number

350 mm 390001

600 mm 390002

750 mm 390003

1000 mm 390004



350 mm 390021

600 mm 390022

750 mm 390023

1000 mm 390024



350 mm 390031

600 mm 390032

750 mm 390033

1000 mm 390034



350 mm 391001

600 mm 391002

750 mm 391003

1000 mm 391004



200 mm 391011



350 mm 391021

600 mm 391022

750 mm 391023

1000 mm 391024



350 mm 391031

600 mm 391032

750 mm 391033

1000 mm 391034





A smart system for humidity control



AUTOMATIC ALERT OF POTENTIAL LEAKS

AUTOMATIC DEMAND-BASED DRYING OF
THE INSULATION LAYER



The VILPE Sense system is based upon the latest IoT-technology and combines two functions - humidity monitoring and humidity damage prevention. The system will find and alert you to even the smallest hard-to-find leaks, so that these can be fixed before they grow into bigger and more expensive problems. The VILPE Sense system also dries the insulation layer when necessary: for instance, after rain or during humid autumns that can cause humidity damages even though there are no leakages in the roof.

The VILPE Sense basic kit consists of two sensors and a control unit which are linked to an energy-efficient ECo Roof fan. One sensor monitors the temperature and relative humidity in the insulation layer, whilst the other measures that of the outdoor air. The system can be installed under pressure ventilation pipes so that the structures remain intact. The data is sent to the control unit and ends up on the VILPE cloud service, where it is analysed. If the system detects excess humidity in the insulation layer, the roof fan is automatically activated to work at a higher speed until the structure is dry.



Follow the condition of
your roof in the VILPE
Sense application



Through the VILPE Sense application, the condition of your building can be checked at any time, and the system will automatically alert you in cases of potential leakage. This data can also be safely exported to any complete home automation system.

> [VILPE.COM/EN/SENSE](https://vilpe.com/en/sense)



Photo: Eg-Trailding Oy

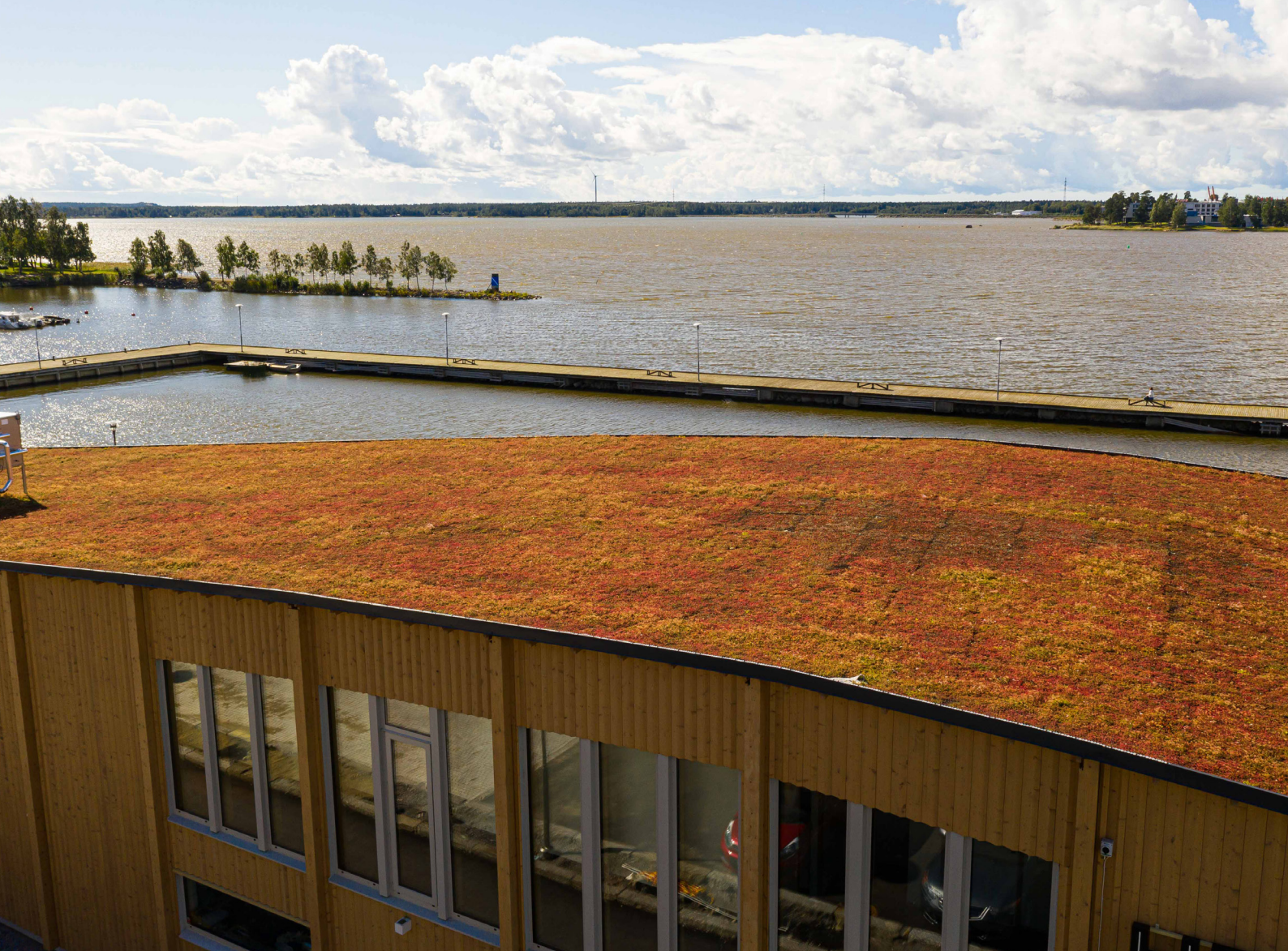
VILPE® SENSE

Description: Consists of two sensors and a control unit which are linked to an ECo Roof fan. This smart system detects and alerts you to potential leakages and other humidity problems, for instance on the roof or underfloor. The system also dries the insulation layer when necessary. Through the VILPE Sense application, you can check the condition of one or several buildings at any time.
Contents: Steering device, two sensors.

Model	Pcs/pack	Delivery	Product No.
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Basic kit	1	Stock	735040
Sensor	1	Stock	735041





Guaranteed excellent quality

The VILPE products create better indoor air, improve energy efficiency and prolong the lifetime of buildings. The products are manufactured by a Finnish family business VILPE which is the leading manufacturer and developer of ventilation and special roofing products in Finland, Baltics, Russia and Scandinavia.

The products are of excellent quality and are durable, which is why we offer a 20-year warranty of technical parts and 10-year colour warranty. The management system of VILPE Oy has been granted both the ISO 9001:2015 quality certificate the ISO 14001:2015 environmental certificate. These certificates cover product development, manufacturing and sales of VILPE products.

Responsibility for environment and people

We at VILPE take concrete actions to support environmentally sustainable production. The largest green energy investment in our history has been replacing oil with geothermal heat. This reduces the CO2 emissions of the factory by 330 tons annually. We also design energy efficient products. Our goal is to increase the plastics recycling possibilities during the whole lifetime of the product. Environmental sustainability is also a part of our machine investments.

Another important aspect is promoting social responsibility. Yearly, we invest 0.3 % of our turnover to support local welfare, such as, education, sports and disadvantaged children.



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