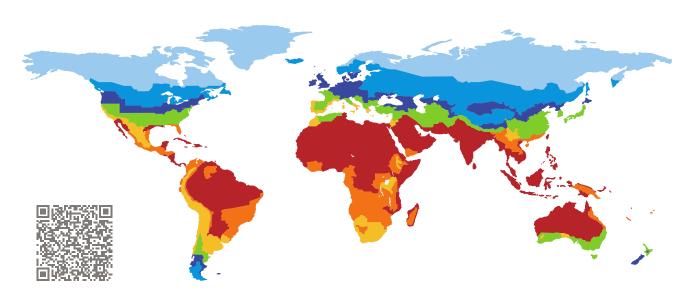
## CERTIFICATE

**Certified Passive House Component** 

Component-ID 1200sr03 valid until 31st December 2018

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category: Shower Water Heat Recovery

Manufacturer: Herwin-Energie BV,

7912 TH, Niederlande

Product name: ES-Drain

## This certificate was awarded based on the following criteria:

Tested under standard boundary conditions<sup>1</sup> the system reduces the useful energy demand for shower by

41% > 30%

## **Further properties**

Pressure drop tap water at 8 l/min: 0.17 bar Connection tap water: 1/2"

Connection waste water: DN 50

steady-state efficiency

50%

effective dead time

5.00 s

design flow rate

8.00 l/min

Passive House efficiency class

phE

ph**D** 

phC

ph**A** 

phB

ph**A**+

all climate zones

phB

CERTIFIED
COMPONENT

Passive House Institute

 $<sup>^1</sup>Balanced$  flow rates, cold water temperature 10 °C, Temperature at shower head 40 °C, waste water temperature 35 °C, negligible pipe length, shower time 6 min, flow rate 8 l/min