



Centrum stavebního inženýrství a.s.
Centre of Building Construction Engineering Prague
Autorizovaná osoba, Oznámený subjekt, Certifikační orgán
Akreditovaná zkušební laboratoř
Authorised Body, Notified Body, Certification Body,
Accredited Test Laboratory
Pražská 16, 102 00 Praha 10



Certification Body No 3048
issued

CERTIFICATE

No. CO/ C – 0222 – 2016/P

Product : ***Drain water heat recovery, model NELA***

Client : **Ivan Sakal – Technologie pro úsporu energií**
Lipová 127, 375 01 Týn nad Vltavou

IČO / DIČ : **144 89 988 / CZ491111345**

Manufacturer : **Ivan Sakal – Technologie pro úsporu energií**
Lipová 127
375 01 Týn nad Vltavou

Product description:

The drain heat exchanger - NELA is used for heat recovery from waste water of shower. This certificate proves product properties required for certification according to criteria PHI Darmstadt (Criteria and algorithms for Certified Passive House Components: Drain Water Heat Recovery – Version 0.5, 13.10.2014jü).

Certified values:

Stationary efficiency	: 40.5 %	($T_{CW} = 9.3\text{ °C}$; $T_{WW} = 38.7\text{ °C}$; $T_{HR} = 21.2\text{ °C}$)
Effective dead time	: 8.54 s	($T_{CW} = 10.5\text{ °C}$; $T_{WW} = 38.2\text{ °C}$; $T_{HR} = 20.9\text{ °C}$)
Design flow rate	: 8 l/min	
Pressure drop tap water	: 0,36 bar	(flow rate 8 l/min)
Connection cold water	: G3/4"	
Connection waste water	: D40	

A certificate is issued in accordance with DIN EN ISO / IEC 17067: 2014 scheme 1a, the scope of accreditation granted certificate no. 763/2014 issued by the CIA on Nov. 26, 2014, under the Protocol for certification no.CO/CP-0222-2016/P, issued by Centre of Building Construction Engineering Plc. on 29th April 2016 with the Test Report Nr. 16/151/V001 of 01.04.2016 from Testing Laboratory No. 1007.4 - Centre of Building Construction Engineering, Pražská 16, 10200 Praha 10 – Hostivař.
Validity of the certificate is 5 years, to 29th April 2021.

Release Date: 29th April 2016

Stamp:



Ing. Petr Kučera, Ph.D.
Director of Certification Authority