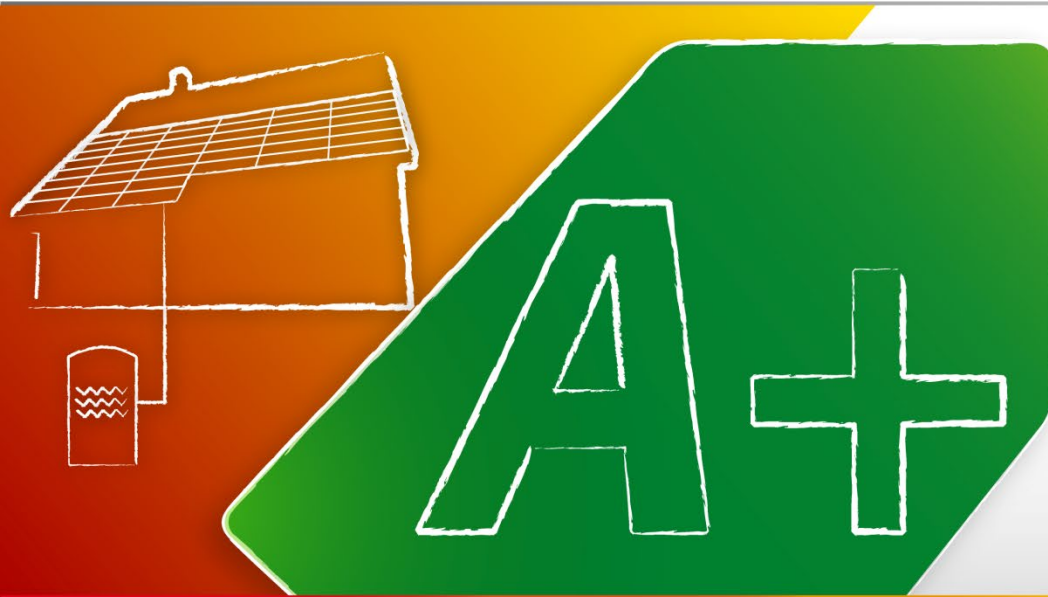




This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 649905

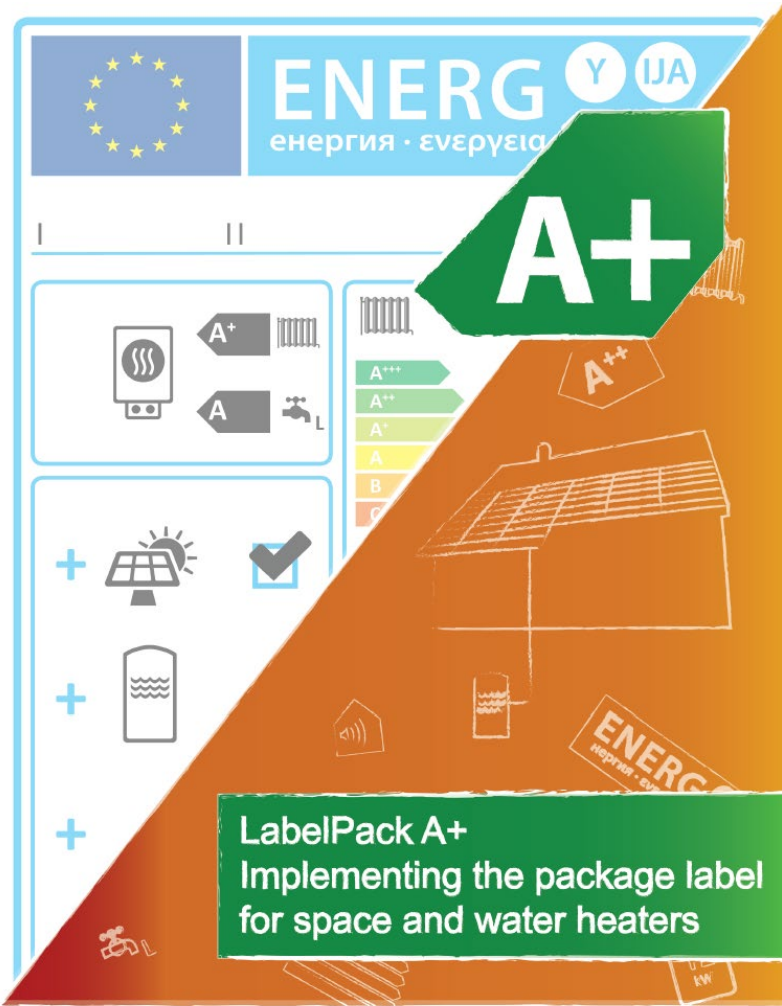
LabelPackA+



Implementation of the package label for space and water heaters: challenges and timings

Solar Keymark Network meeting

24 October 2018



Closing of Labelpack A+ project



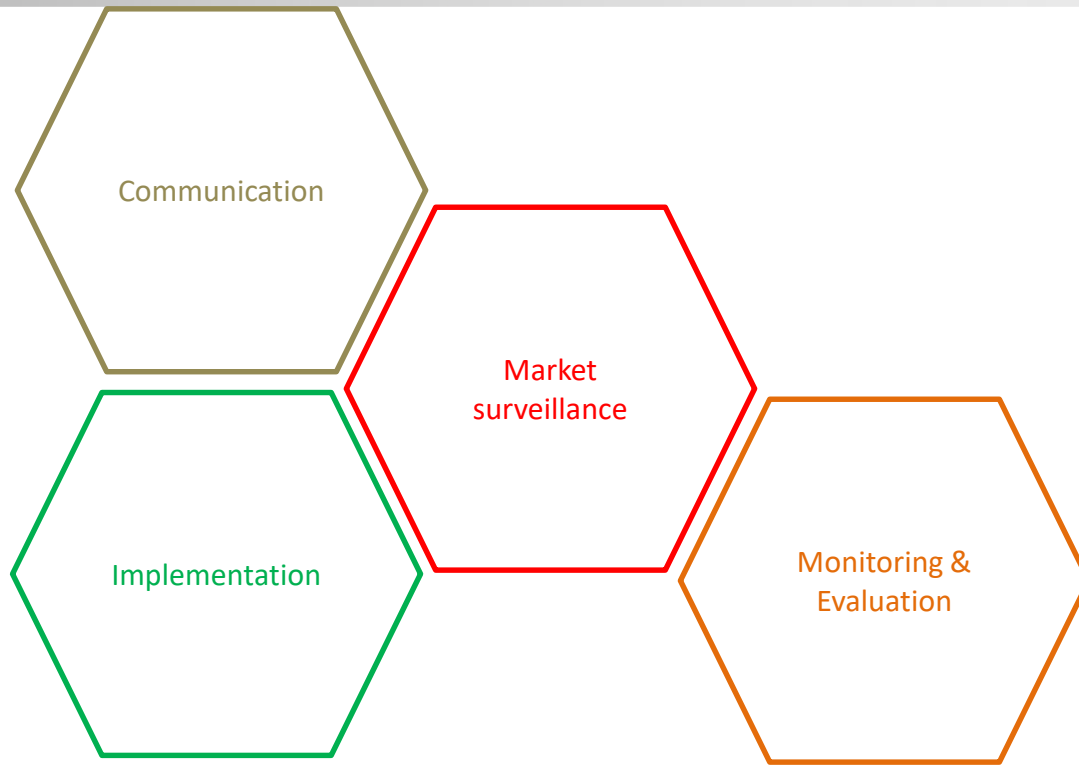
LabelPack A+ Consortium's Partners



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Resources



- Material for Supplier 
- Material for Dealers 
- Material for System Designer 
- Material for Installers 
- Material for End-users 
- Material for Policy-makers & Agencies 

- **Guides**
- **Tools**
 - **Online Tools**
- **Training materials**
- **Reports**
- **Press Releases**

Reports



Communication

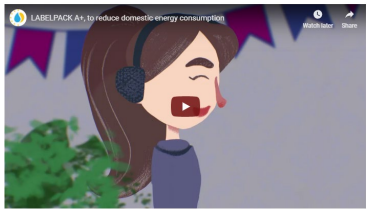


- Package Label implementation assessment report (D4.1)
- Implementing the package label for Space and Water Heaters- Short version (D1.5)
- Reports on national implementation (D3.9 & D3.10)
- Recommendation regarding the implementation of the “package label” (D4.3) & Executive Summary
- Business models for Package Label Online Platforms (D4.4)
- Analysis of the implementation of the “package label” in several European countries (D4.6)
- Sensitivity analysis on the application of the “package label” (D4.7)
- Analysis of opposing scenarios for the “package label” (D4.8)
- Reports of Advisory meetings (D6.3)

LabelPack 

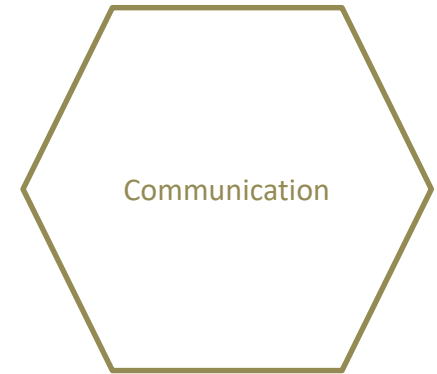


Videos





Social Media & Consumer outreach



Heater load profile	Hot water needs associated to the profile	Application	
3XS	Seldom hand wash	Small offices	
XXS	Household washes	Small offices	
XS	Kitchen (dish wash) and household washes simultaneously	Offices	
S	Kitchen (small dish wash) household washes	Offices	
M	Kitchen, household washes and 2 showers	Residential (1-2 pax)	
L	Kitchen, household washes, showers or bath	Residential (3 - 5 pax)	
XL	Kitchen, household washes, showers and/or baths	Residential (5 - 8 pax)	
XXL	Kitchen, several household washes, showers and bath simultaneously	Residential (9 and more pax)	

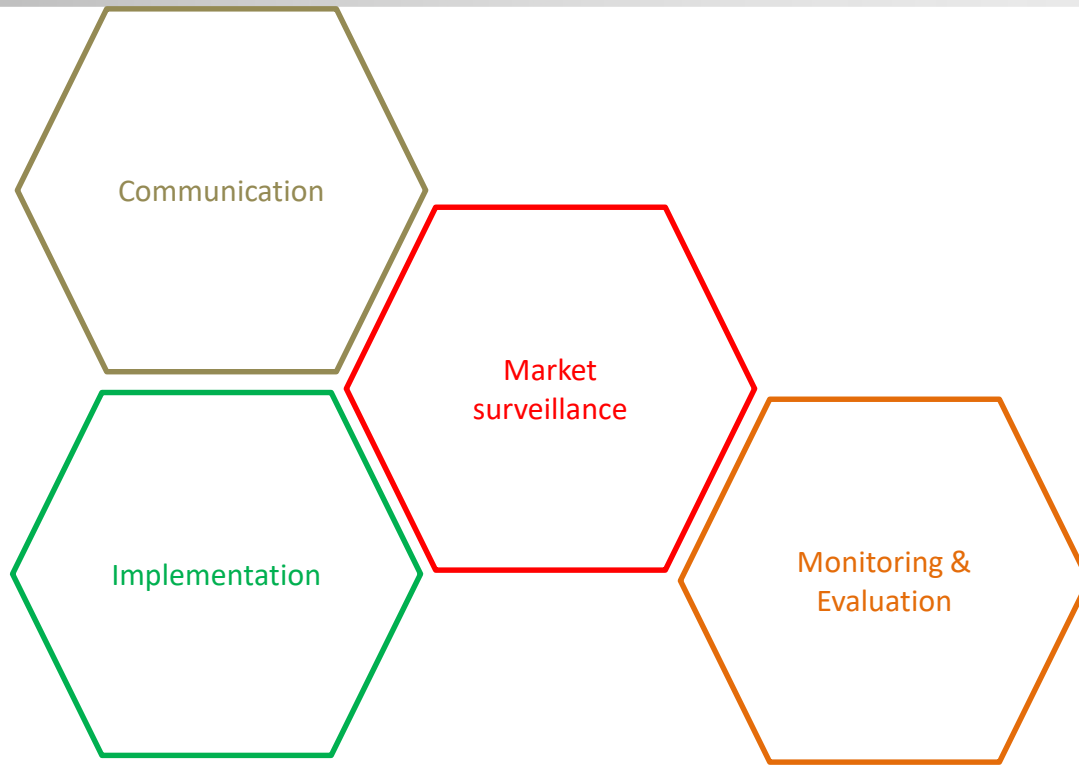


Website



The screenshot shows the LabelPack A+ website homepage. At the top, there is a navigation menu with items: Home, National Projects, Energy Label, Actors, Calculate the label, Calendar, Resources, Contact, Imprint, and Disclaimer. A search bar is located to the right of the navigation menu. The main content area features a large graphic of a house with solar panels and a large green 'A+' logo. Below this, a text block states: "The 'Labelpack A+' project aims at providing support for a smooth implementation of the energy labelling of heating appliances, while boosting its impact." A green 'More' button is positioned below the text. To the right, a section titled "This project is lead by" features the ESTIF logo and the text "European Solar Thermal Industry Federation". At the bottom, a section titled "Interested in LabelPack A+? We have resources for all the supply chain stakeholders." lists six roles with corresponding icons: Supplier (worker with tools), Dealer (person with a cart), System Designer (person with a triangle), Installer (person with a wrench), End-user (person), and Policy-makers & Agencies (person at a podium).

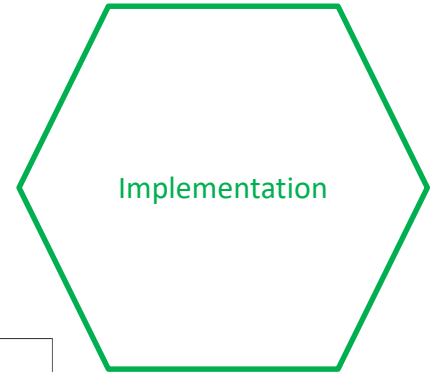






Online Tools

Package Label Tool



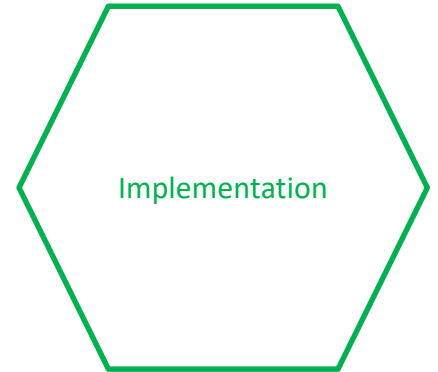
The screenshot shows the web interface for the LabelPackA+ Energy Labelling tool. The header features the 'LabelPackA+' logo with 'solar thermal' and 'Ecodesign heating' text, and a large green 'A+' badge. Below the header, the page title is 'Calculate the label'. There are links for 'Please read the disclaimer' and 'Information regarding the calculation for solar devices'. A 'Back to start' button and a 'Login' button are visible. A language dropdown menu is set to 'English'. The project is led by ESTIF (European Solar Thermal Industry Federation), with their logo and name displayed. The main heading is 'Calculating Package Efficiency and Class', followed by the question 'What type of package would you like to calculate?'. Three buttons are provided: 'Water Heater', 'Space Heater', and 'Combination Heater'. A notice at the bottom states that the tool is free for professionals and general users, and is developed in the framework of the Labelpack A+ project (GA 649905). Copyright © 2018 by ESTIF is also noted.





Online Tools

Package Label Tool



Calculating Package Efficiency and Class

Water heater ⓘ

Water heating energy efficiency of water heater (in %)

Declared load profile ⓘ

L ▾

Solar device ⓘ

Annual non-solar heat contribution (Qnonsol)(in kWh) ⓘ

Auxiliary electricity consumption (Qaux)(in kWh) ⓘ

SOLCAL

Heat storage tank ⓘ

Storage Tank installed ? ⓘ

Storage Tank installed X

Most solar thermal systems use a 'Heat storage tank'. In those cases, the answer to the question is "Yes". In particular cases it is possible that a 'heat storage tank' is not used, therefore the option "No" is also available.

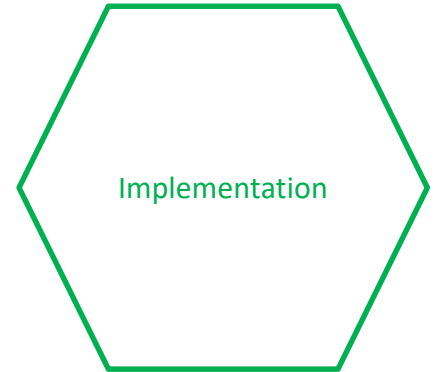
Calculate PDF ⓘ





Online Tools

User Area



My Package Components

Import components from CSV

You can add products manually in each category. Or you can [batch import](#) several products at once, using a CSV file.

Water Heaters

Conventional water heaters

Space Heaters

Boiler

Cogeneration Heater

Heat Pump

Combination Heaters

Boiler

Heat Pump

Other Components

Solar Collector

Solar Device

Solar Pump

Storage Tank

Temperature Control

Other Components

Solar Collector

Solar Device

Solar Pump

Storage Tank

Temperature Control



Online Tools

Solcal Tool



Input

Brand / type:

Number of collector modules N_{col} [-]

Collector module reference area A_{sol} [m²]

Zero loss efficiency η_0 [-]

First-order coefficient a_1 [W/m².K]

Second-order coefficient a_2 [W/m².K²]

Incidence angle modifier IAM [-]

Nominal storage volume V_{nom} [liter]

Backup storage volume V_{bu} [liter]

Standing losses tank S [W]

Location of the storage tank

Pump power consumption sol_{pump} [W]

Standby power consumption sol_{sb} [W]

Type of control of backup heater

Calculation

Total collector area $A_{sol,tot}$ [m²] **5.6**

Collector efficiency η_{col} [%] **62**

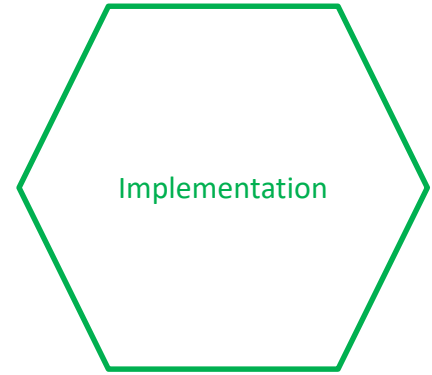
Energy label class of the tank **B**

Auxiliary energy consumption Q_{aux} [kWh] **75**

Method applied for the calculation

Non solar heat contribution Q_{nonsol} [kWh] **1149**

Apply



Select components for SOLCAL calculation

Solar Collector

[Chose from your list of saved products](#)

OR: [Chose from list of Solar Keymark'ed products](#)
Solar Keymark'ed collectors

Storage Tank

[Chose from your list of saved products](#)

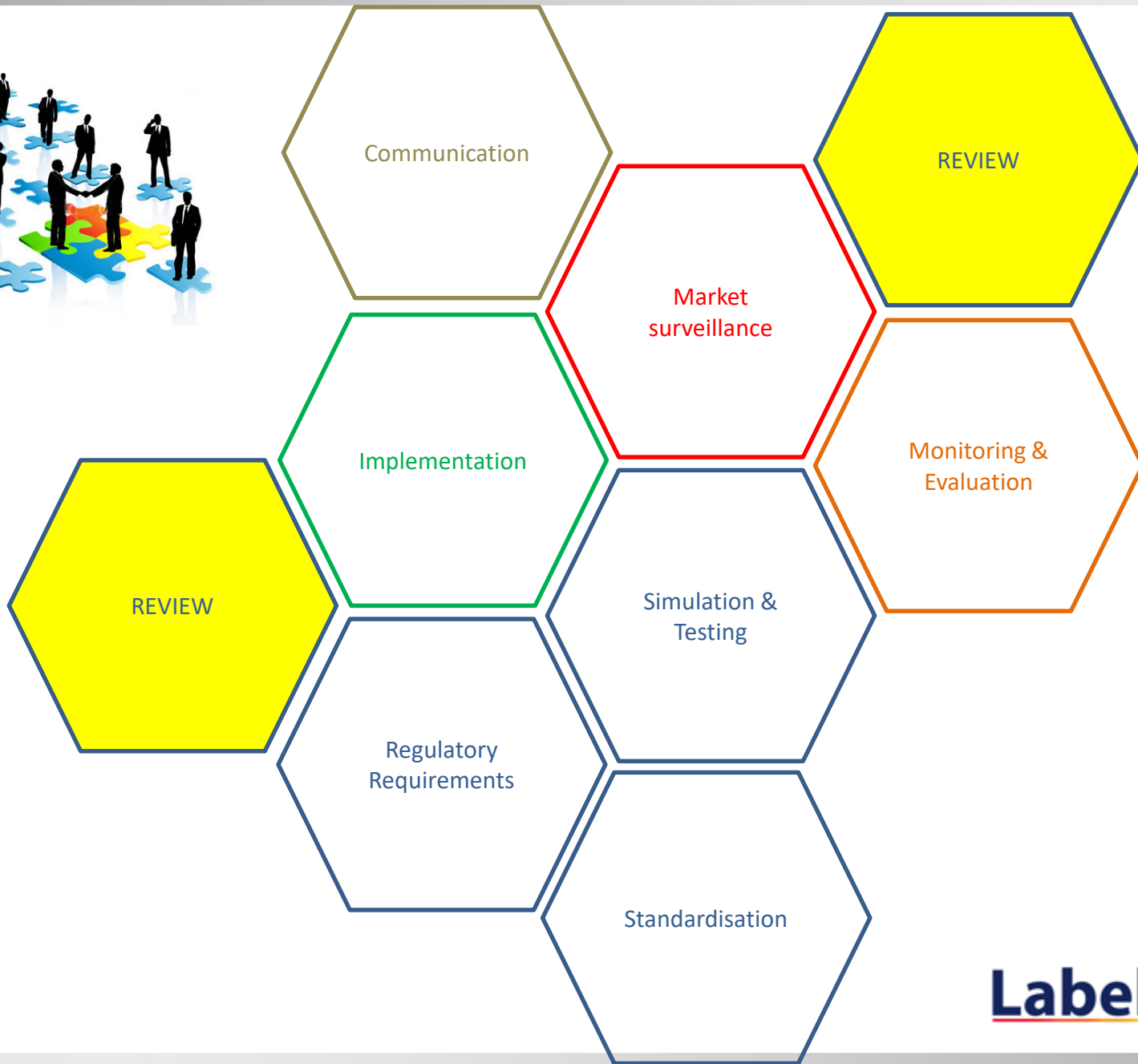
OR: [Chose from list of Solar Keymark'ed products](#)
Solar Keymark'ed storage tanks

Solar Pump

[Chose from your list of saved products](#)
Saved solar pumps

SOLCAL

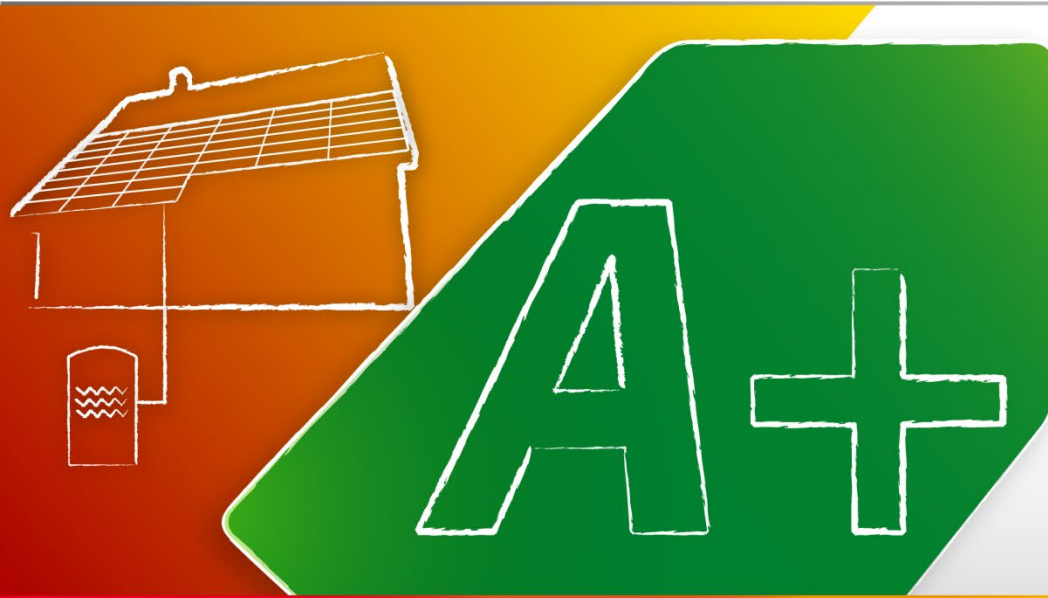






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LabelPack **A+**



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