Solar Keymark & Certification Issues for certificate holders

6th June 2019

CEN TC312 Thermal solar systems and components

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CEN/TC312 Secretary, SKN Manager
What is a standard? A standard is a document that sets out requirements for a specific item, material, component, system or service, or describes in detail a particular method or procedure.

Who makes standards? National standards organizations

European Standardization Organizations:
- CEN - European Committee for Standardization
- CENELEC - European Committee for Electrotechnical Standardization
- ETSI - European Telecommunications Standards Institute

International standards organizations

CEN members of technical committees are nominated by the national standards organizations.

One European Standard becomes the national standard in all the countries covered by CEN. This means: one European Standard (EN) becomes the national standard in all 34 countries covered by CEN Members.
Benefits for Businesses

Whether you are a SME or a big company, European standards are valuable tools that can help your business to:

✓ ensure the **quality** and safety of products and/or services;
✓ achieve **compatibility** between products and/or components;
✓ **access markets** and sell to customers in other countries in and outside Europe;
✓ satisfy your customers’ expectations and requirements;
✓ **reduce costs**, eliminate waste and improve efficiency;
✓ **comply with relevant legislation** including EU regulations;
✓ gain knowledge about **new technologies** and innovations.
➢ CEN TC312 scope: preparation of European Standards to cover terminology, general requirements, characteristics, test methods, conformity evaluation and labelling of thermal solar systems and components.

➢ Chairperson: H. Michalopoulos (GR)

➢ Secretary: V. Drosou – ELOT/NQIS (GR)

(with financial support from Greek Solar Thermal Association and Solar Certification Fund of the SKN)

➢ Structure

WG1  Solar Collectors
Convenor: A. Bohren, SNV (CH)

WG2  Factory made systems
Convenor: V. Sharma, UNI (IT)

WG3  Custom built systems
No Convenor
<table>
<thead>
<tr>
<th>Standard Number</th>
<th>Title</th>
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</table>
Part 1: General requirements |
| EN 12976-1:2017 | Thermal solar systems and components – **Factory made systems**  
Part 1: General requirements |
| EN 12976-2:2019 | Thermal solar systems and components – Factory made systems  
Part 2: Test methods |
| EN12977-1:2018 | Thermal solar systems and components – **Custom built systems**  
Part 1: General requirements for solar water heaters and combisystems |
| EN12977-2:2018 | Thermal solar systems and components – Custom built systems  
Part 2: Test methods for solar water heaters and combisystems |
| EN12977–3:2018 | Thermal solar systems and components – Custom built systems  
Part 3: Performance test methods for solar water heater stores |
| EN12977-4:2018 | Thermal solar systems and components – Custom built systems  
Part 4: Performance test methods for solar combistores |
| EN12977-5:2018 | Thermal solar systems and components – Custom built systems  
Part 5: Performance test methods for control equipment |
### Published Standards (2/2)

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>EN ISO 22975-1:2016</td>
<td>Solar energy - <strong>Collector components and materials</strong></td>
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<td>Part 1: Evacuated tubes</td>
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<td></td>
<td>Durability and performance (ISO 22975-1:2016)</td>
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<tr>
<td>EN ISO 22975-2:2016</td>
<td>Solar energy - Collector components and materials</td>
</tr>
<tr>
<td></td>
<td>Part 2: Heat-pipes for solar thermal application</td>
</tr>
<tr>
<td></td>
<td>Durability and performance (ISO 22975-2:2016)</td>
</tr>
</tbody>
</table>
## Standards UNDER DEVELOPMENT

| WI 00312039 | prEN 12975rev | Thermal solar systems and components – Solar collectors – General requirements. |
| WI 00312047 | prEN ISO 9488 rev | Solar energy - Vocabulary |
CEN TC 312 Cooperation

With organizations:
ANEC European consumer voice in standardisation.
EHI European Heating Industry
ESTIF/SHE Solar Heat Europe
JISC Japanese Industrial Standards Committee

With TCs:
CEN/TC 130 Space heating appliances without integral heat sources
CEN/TC 164 Water supply
CEN/TC 228 Heating systems and water based cooling systems in buildings
CEN/TC 371 Energy Performance of Buildings project group
CEN/TC 57 Central heating boilers
ISO/TC 180 Solar energy

With affiliate members:
ISME (Institute for Standardization of Montenegro)
Contacts

Your National Standards Body
For more information about standards and how your company can participate in standardization

https://www.cen.eu
For more information on
• European standards
• national members
• technical committees
• brochures, workshops, trainings etc.

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For CEN TC312 issues

Thank you for your attention!