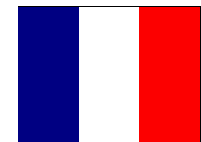


ASIEPI

WP6: Assessment of innovative systems in France

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The system, technology and building concept, who provide a better performance is considered as an innovative system.

Avis Technique Procedure (Technical Assessments):

Field : security, thermal, mechanical

Voluntary assessment to inform all French professionals involved in construction about the suitability of a product or process in terms of use compatible with the building regulations, behavior in the construction, predictable durability of structures, taking account of defined construction requirements,

Titre V(five) procedure :

If the component/material is not included in the French Thermal Regulation (RT2005) , this procedure is required.



Avis Technique (Technical Assessment) procedure

Procedure

- A technical report must be written following a directive document and sent to CSTB. It is evaluated by a group of experts (GS).
- The study must include a description of the product and test results to prove the characteristics.
- A second experimental and numerical evaluation is done by CSTB.
- Once, the avis technique is accepted. It is published including the inputs needed to perform a regulation calculation.



Procedure

- A technical study must be sent to the Ministry for Ecology Sustainable Development and Energy who selects experts to participate to the evaluation.
- The study must be written following the annex V (Arrêté du 24 Mai 2006) and it must be illustrate with drawings
- The study must proof the respect of requirements, and describe the method to take into account the performances of the system in the thermal regulation (generally with post/pre processing or by using actual system)

Possibilities

- A study for one project; applied only to this building. (building approach) (not published in Ministry web site)
- All buildings; applied to all buildings included in the scope. (system approach); (Published in Ministry web site)



Example of Titre V : Stove for low energy buildings

- ❖ Technical study for All buildings (system approach)
- ❖ Describe why it is not possible to apply the actual method (RT2005)
- ❖ Describe the system
- ❖ Describe the method with input data: applying the same calculation as a wood boiler of class 2
- ❖ Provide default values for thermal performances as input
- ❖ Scope : Conditions to apply this equivalence study :
 - o House
 - o Surface <110 m²
 - o $U_{bat} \leq U_{batbase} - 25\%$



Advantages and disadvantages

- **All innovative systems can be taken into account**
- **Open procedure and simple to do**
- **Updating of the regulation**

- **Time to evaluate each study**
- **No template but examples are provided**

<http://www.rt-batiment.fr/batiments-neufs/reglementation-thermique-2005/titre-v-etude-des-cas-particuliers.html>

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