

Title of the measure:	FRA7 Building codes « RT 2005 »
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General description

The Energy law n° 2005-781 adopted on the 13th of July 2005 takes into account the target of the Plan Climat 2004 to reduce CO₂ emissions in the building sector by a factor of 4 by 2050. To facilitate the realisation of this target, the government has reinforced the building codes and has adopted a new thermal regulation, so called “RT 2005”.

The new thermal regulation RT 2005 has been published in the “Journal Officiel” on the 25th of May 2006 and concerns new buildings in residential and non residential sectors.

In comparison with the previous thermal regulation of 2000 (“RT 2000”), the RT 2005 introduces some new measures:

- Improvement of 15 % of the buildings energy performance
- Valorisation of the bio-climate conception of the buildings (to reduce the needs for heating and to assure a better comfort in summer)
- Better consideration of the renewable energy sources (in particular as a reference in calculation)
- Compensation between over-consumption for cooling (in the case of the use of air conditioning in buildings) and other consumptions

Furthermore, two labels complete the building codes RT 2005:

- The label “High energy performance” (“Haute performance énergétique” – HPE), which corresponds to an energy consumption of 10 % less than the standard energy consumption in the RT 2005 regulation
- The label “Very high energy performance” (“Très haute performance énergétique” – THPE), which corresponds to an energy consumption of 20 % less than the standard energy consumption in the RT 2005 regulation

The two labels will be used to test different solutions, which will prepare the definition of the future thermal regulation in 2010.

Impact evaluation (methods and results)

Methods

Results

Ex-post evaluation	1995	2000		
direct CO ₂ (kt)				
Energy (TJ) (Fuels/Electricity)				
Ex-ante evaluation	1995	2000	2010	2020
direct CO ₂ (kt)				
Energy (TJ) (Fuels/Electricity)				

Measure Impact Level		
<input type="checkbox"/> low	<input type="checkbox"/> medium	<input checked="" type="checkbox"/> high

Definition of impact:

Low: energy savings < 0.1% of overall energy consumption in “household”

Medium: between 0.1 and 0.5%

High: > 0.5%

Interaction of measures

The system can interact with other measures such as local energy information centres FRA6 (in Tertiary), or the building standards of 2005 in Households.

Historical data

The RT 2005 regulation follows and completes the building codes defined in the previous thermal regulation of 2000 (RT 2000) (FRA15 Building insulation standard of 2001).

References

- Loi n°2005-781 du 13 juillet 2005 de programme fixant les orientations de la politique énergétique
- Décret n° 2006-592 du 24 mai 2006 relatif aux caractéristiques thermiques et à la performance énergétique des constructions
- Arrêté du 24 mai 2006 relatif aux caractéristiques thermiques des bâtiments nouveaux et des parties nouvelles de bâtiments
- Arrêté du 27 juillet 2006 relatif aux labels HPE et THPE