

Treated timber
for durability...



EARTH RETAINING STRUCTURE BANKS, SUPPORTING STRUCTURE



The guarantee of durable timber



The CTB-B+ mark ensures the timber gives the expected level of conferred durability for the required use in accordance with the requirements of standard NF B 50-105-3

An adapted and controlled process

CTB-B+ is the guarantee for the implementation of quality treatment validated by FCBA and a controlled impregnation process.

Twice a year, FCBA audits the certified companies, ensures the Quality Plan is being followed and conducts sampling.

Simply using a CTB-P+ certified product not guarantee the quality of a timber treatment.

Confirmed effectiveness

CTB-B+ treated timber ensures the structure is resistant to wood-boring insects, wood-rotting fungi and termites.

Indeed, the combination of CTB-B+/CTB-P+ certifications allows the timber to be used in agricultural, wine-producing, aquatic, indoor and outdoor environments, play areas or other public or private spaces.

The environmental declaration sheets and life cycle analysis for CTB-B+ certified timber are available on the INIES database (INIES.fr).

CTB-B+ treated timber is taken to waste reception centres according to the regulations in force.

Responsible use of CTB-P+ certified treatment products

CTB-B+ imposes the use of CTB-P+ certified products.

CTB-P+ makes use in particular of the results of standardised field tests.

DURABILITY AND GUARANTEE :

how do you find it?

Expected durability is defined as the period of time the timber parts used are expected to perform for one single use. This period of time is largely dependent on the conditions of use and the quality of the installation of the treated timber.

A contractual guarantee is a binding commitment from the supplier to its customer to meet the requirements which define the duration and scope.

There are legal safeguards which will be applied if necessary.

Model of attestation of preventive treatment

Use of the logo confirms the certification of the timber

ATTESTATION de TRAITEMENT PREVENTIF N° 01702
Suivant NF B 50-105-3

Classe d'emploi selon EN 335	1	2	3.1	3.2	4	
Rétentions					4	4 SP
Traitement conféré	<input type="checkbox"/>					

France métropolitaine : France métropolitaine et DOM :
 Traitement antitermites : Traitement anti-bleu en service :

Nom du client :
 N° et date de la facture :
 Références du lot :
 Essences de bois :
 Procédé de traitement :

Produit utilisé : (voir informations au verso)
 Fabricant :

Annotations on form:
 - Logo: QUALITE CTB B+ CERTIFIEE MATERIAU BOIS
 - Cachet de la station de traitement
 - Must be CTB-P+ certified
 - Companies holding the CTB-B+ right of use attest to the quality of the service

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Partly embedded, these are structures in landscaped areas. They are intended to hold back earth, embankments such as gardens, terraces, banks, slopes, etc.

The timber adapts easily to diverse topographies (simple and fast installation even if modifications are required).
The products used for example are round timber of sawn timber.



Performances

As they installed in the ground, these timbers are use class 4. Expected durability varies according to usage.

Round timbers and sawn timbers that have been treated according to CTB-B+ specifications for a use class 4 are safe to use in use class 4.

Expected service life is less than 10 years.

For very long service lives or special circumstances, **the retention treatment « Sp » for use class 4 provided for in the CTB-B+ certification, gives enhanced protection.**



Installation

CTB-B+ treated timber ensures the durability of these works.

To guarantee their durability, ensure to :

- prohibit any machining after treatment.
- implement appropriate drainage on the part above ground in contact with the embankments
- avoid retentions and water traps on the part above ground
- also ensure the implementation of drainage adapted to the base if the embedded part has been cast in concrete
- prohibit the installation of on-woven geotextile in direct contact with the timber

In all cases, the design should ensure the mechanical stability of the structure.



Maintenance

CTB-B+ treated timber does require the application of any additional products to ensure durability.

Its aesthetic appearance is maintained by cleaning using a brush and/or water jet (high pressure prohibited) Mechanical damage caused by clearing operations should be treated with a product appropriate for that purpose.

Timber treatment professional,
the CTB-B+ holder will provide
you with all advice needed.

CTB-B+
ensures
the durability
of treated timber

Universal use classes, specifications of different treatments :

Before choosing the timber species, please refer to the use class.

Identical in every country, the uses classes define the situation of the timber in a particular structure. They do not, however, attest to its suitability for use. For the same use class, the treatment requirements may vary from country to country.

Each species has its own characteristics in terms of natural durability (before treatment) and impregnability (capacity to retain the product). The allocation of a species to a use class determines how the timber should be treated. Its effectiveness depends on the selection of the timber, the quality and quantity of the product used and how the process is managed and controlled.

Class	Conditions of use	Method of preservation	
		Autoclave	Dipping
1	Internal timbers - Fully protected from adverse weather, not exposed to humidification		X
2	Internal timbers and external sheltered timbers - Protected from adverse weather, occasional but not persistent humidification (condensation)	X	X
31	External timbers that are not in contact with the ground, subjected to frequent humidification for short periods. Completely dries out in between two damp periods	X	X
32	External timbers that are not in contact with the ground, subjected to frequent humidification for long periods. Completely dries out in between two damp periods	X	
4	External timbers in contact with the ground or with a support subject to recurrent humidification, or fresh water contact, or where the design is such that significant water is retained, or exposed to very pronounced humidification	X	



Earth retaining structure (4)

NB : Outline diagram. At the level of the embankments, do not use any soil laden with organic matter or contaminated soil.

LÉGENDE
Élément de classe 4



Test your knowledge with the Quiz on

www.ctbbplus.fr



Certification of CTB-B+ services is managed by FCBA (the French Institute of Technology for Forest-based and Furniture Sectors), key player in the timber-construction industry.

FCBA, a certification body accredited by COFRAC* (Certification of Products and Services, no. 5-0011, available on www.cofrac.fr and list of certificate holders available on www.ctbbplus.fr), contributes to the development of European standards for the preservation of timber used in buildings.

Allée de Boutaut - BP 227 - 33028 Bordeaux Cedex - Tél. +33 (0)5 56 43 63 00