

The Mixed Wood & Steel Guardrails,  
Safe & Aesthetic solutions developing  
worldwide



roads and sites worldwide



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Sofia

28/03/2018

# Green, Safe and Technical

How many people in this room have ever seen some Mixed Wood & Steel guardrails installed on the roads?

# Mixed Wood & Steel Guardrails: Aesthetic solutions



ITALY

# Mixed Wood & Steel Guardrails: Aesthetic solutions

## SAINT BARTHS, WEST INDIES



# Mixed Wood & Steel Guardrails: Aesthetic solutions

Italy



# Mixed Wood & Steel Guardrails: Aesthetic solutions

Switzerland



A scenic view of a mountain valley with a road and a wooden guardrail. The road is paved and runs along the edge of a steep, grassy slope. A wooden guardrail, made of thick logs, runs along the edge of the road. In the background, there are rolling green hills and a valley filled with mist or low clouds. The sky is blue with some light clouds. The overall scene is peaceful and scenic.

# Mixed Wood & Steel Guardrails: Aesthetic solutions

New Caledonia,  
Oceania

South Korea

Mixed Wood & Steel Guardrails: Aesthetic solutions



# Mixed Wood & Steel Guardrails: Aesthetic solutions

Italy



Mixed Wood & Steel Guardrails:  
Aesthetic solutions  
**Belgium**



# Mixed Wood & Steel Guardrails: Aesthetic solutions

France



# Mixed Wood & Steel Guardrails: Aesthetic solutions

Chile



# Mixed Wood & Steel Guardrails: Aesthetic solutions

## Canaries Islands



# Mixed Wood & Steel Guardrails: Aesthetic solutions

## Estonia



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# Safe and Technical solutions

- Comply with the EN1317
- Containment levels: N1, N2, H1, H2



ASsociation pour la Qualification des Equipements de la Route  
165 avenue Aristide Briand 94234 CACHAN - FRANCE  
Tel : +33 (0)1 49 08 51 90 www.asquer.fr  
Organisme Notifié/Notify Body N° 1826

**CERTIFICAT DE CONFORMITE CE**

**EC CERTIFICATE OF CONFORMITY**

**N° 1826-CPD-09-02-06 du 21 Décembre 2009**

En application de la Directive Produits de Construction 89/106/CEE du 21 décembre 1988, relative au rapprochement des dispositions législatives, réglementaires et administratives des états membres concernant les produits de construction, amendé par la directive 93/68/EC du conseil de la communauté européenne du 22 juillet 1993, il a été établi que le produit de construction :  
*In compliance of the directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the member states relating to the construction products, amend by the directive 93/68/EEC of the council of European Communities of 22 July 1993, it has been stated that the construction product :*

**Dispositifs de retenue routiers – Barrière de sécurité**

*Road Restraint systems – Safety Barrier*

Dont les performances à l'impact sont détaillées dans les annexes ci-jointes  
*Whose performances under impact are detailed in the attached annex*

Mis sur le marché par:  
*Placed on the market by:*

**TERTU**  
Domaine de Tertu  
61160 Villedieu les Bailleul  
France

Et fabriqué dans l'usine :  
*And produced in the factory:*

**TERTU**  
Domaine de Tertu  
61160 Villedieu les Bailleul  
FRANCE

Est soumis par le fabricant à un contrôle de production en usine et qu'un laboratoire choisi par le fabricant ai réalisé le test initial pour les caractéristiques significatives du produit, et que l'organisme notifié ASQUER a réalisé l'audit initial de l'usine et le contrôle de production de l'usine et réalise la surveillance annuelle, l'évaluation et l'approbation du contrôle de production en usine.

Ce certificat atteste que toutes les dispositions concernant l'attestation de conformité et les performances décrites dans l'annexe ZA de la norme :

*is submitted by the manufacturer to a factory production control and that a laboratory chosen by the manufacturer has performed the initial type-testing for the relevant characteristics of the product, and that the notified body ASQUER has performed the initial inspection of the factory and the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.*  
This certificate attests that all provisions concerning the attestation of conformity and the performances described in the annex ZA of the standard:

**EN 1317-5:2007**

Ont été appliquées et que le produit satisfait les critères requis  
*Were applied and that the product fulfils all the prescribed requirements*

Le Délégué Général de l'ASQUER

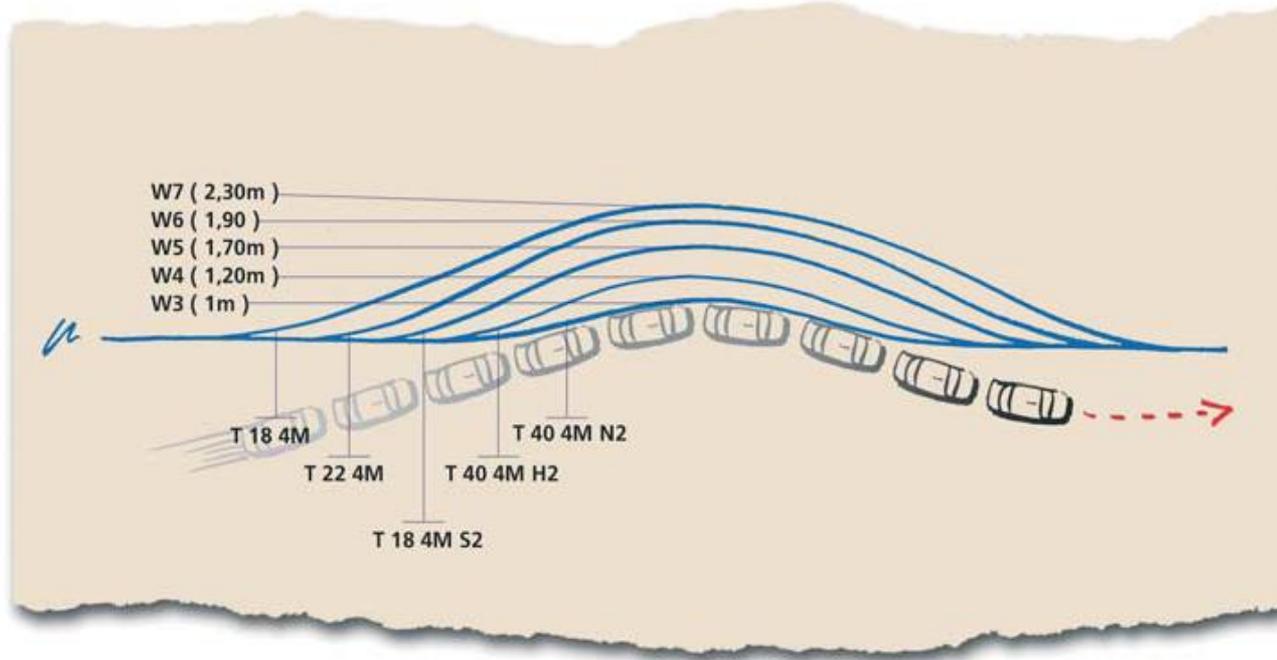
Gérard DECHAUMET

Première édition : 18 Décembre 2009



# Full range of performances

- Working Width from W7 (2,30m) to W2 (0,8m)



Tertu

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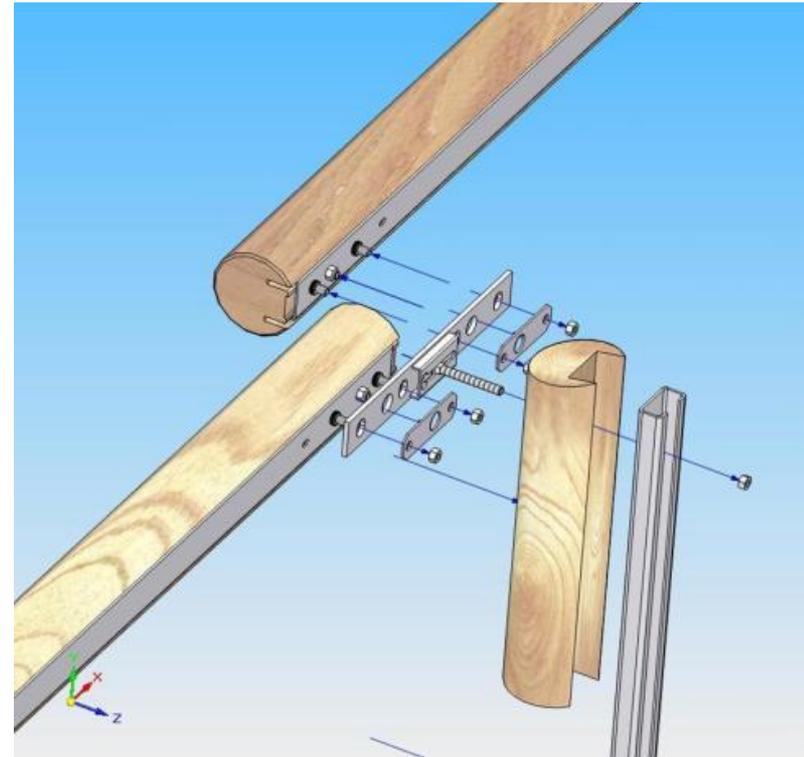
# Safe and Technical solutions

Some have been officially tested to be connected to a steel A or B profile or P4 end terminals according to the ENV 1317-4



# Green, Safe and Technical

- Wood Absorption properties
- Reinforced with steel at the rear
- Several patents registered
- Eco-friendly
- Wood treated against insects and fungus attacks



# A solution used globally

- Presence in about 40 countries around the world on the 5 continents
- More than 10 manufacturers worldwide



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Thank you



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