

# T22



## T22 wood & steel guardrails

### An efficient model at a reasonable price

The most competitive wooden guardrail  
of the market in terms of price and performances

- ▶ An environmental friendly wood & steel safety barrier protecting road users
- ▶ Suitable where available space for a proper installation is limited
- ▶ C€ certified
- ▶ Quick'n easy installation



# T22 wood & steel guardrails

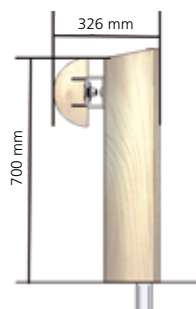
## ► Standards



Half round log diameter 22 cm, length 4.00 m or 2.00 m backed with a steel U profile.



Steel post C 100 in 2.00 m with customized wooden spacer.



Post side view



All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5.

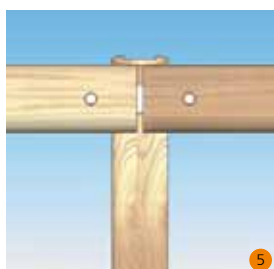
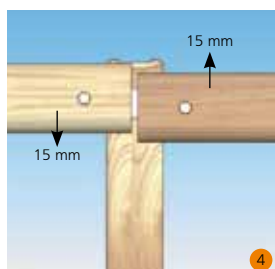
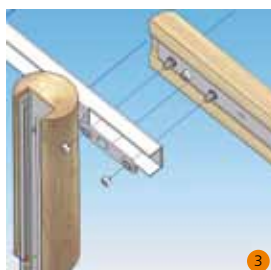
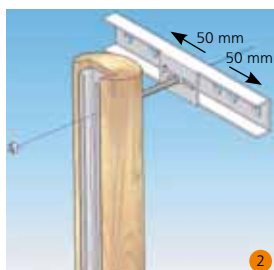
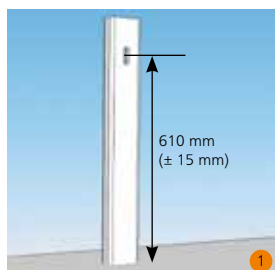
T22 4M:  
containment level N2  
CE n° 1826 CPD 09 02 06 DR5

T22 4MS2:  
containment level N2  
CE certificate pending

Notified body: ASCQUER

All our guardrails are ISO 9001 certified and CE marked since December 21, 2009

## ► Assembly



Pressure-treated wood  
with chromium  
and arsenic-free preservatives

## ► Testing conditions

Containment level	Crash test criteria				Kinetic energy Kj	Recommended level of use
	Test	Speed of impact Kph	Angle of impact °	Total weight of vehicle Kg		
N2	TB 32	110 Kph	20°	1500 Kg	81,9 Kj	Normal containment
N2	TB 11	100 Kph	20°	900 Kg	40,6 Kj	Normal containment

## ► Performances

Model	Working width W	Dynamic deflection Dm	Severity class
T22 4M	W6 (1,90 m)	(1,80 m)	A (ASI ≤ 1.0)
T22 4MS2	W4 (1,30 m)	(1,00 m)	A (ASI ≤ 1.0)



**tertu**  
EQUIPEMENTS  
roads and sites worldwide

61160 Villedieu-lès-Bailleul  
FRANCE

Tel: +33 2 33 36 11 02

Fax: +33 2 33 39 28 75

[www.tertu.com](http://www.tertu.com)



# T18



## T18 wood & steel guardrails

### A great classic in service throughout the world

An environmental friendly wood & steel safety barrier protecting road users

- ▶ An internationally approved model with more than 3500 km installed around the world
- ▶ C€ certified
- ▶ Quick'n easy installation



# T18 wood & steel guardrails

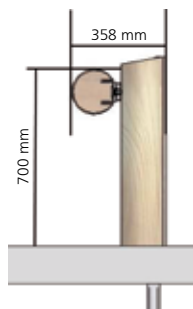
## ► Standards



Round log diameter 18 cm, length 4.00 m or 2.00 m backed with a steel U profile



Steel post C 100 in 2.00 m with customized wooden spacer



Post side view



All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5.

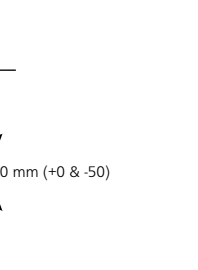
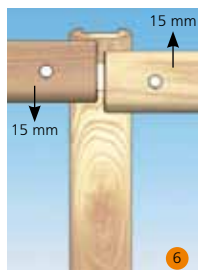
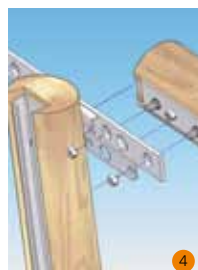
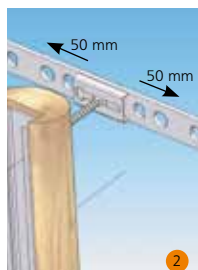
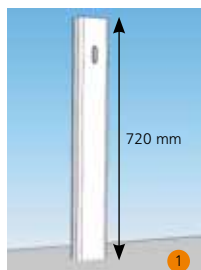
T18 4M:  
containment level N2  
CE n° 1826 CPD 09 02 06 DR4

T18 4MS2:  
containment level N2  
CE n° 1826 CPD 09 02 06 DR3

Notified body: ASCQUER

All our guardrails are ISO 9001 certified and CE marked since December 21, 2009

## ► Assembly



## ► Testing conditions

Containment level	Crash test criteria				Kinetic energy Kj	Recommended level of use
	Test	Speed of impact Kph	Angle of impact °	Total weight of vehicle Kg		
N2	TB 32	110 Kph	20°	1500 Kg	81,9 Kj	Normal containment
N2	TB 11	100 Kph	20°	900 Kg	40,6 Kj	Normal containment

## ► Performances

Model	Working width W	Dynamic deflection Dm	Severity class
T18 4M	W7 (2,30 m)	(2,30 m)	A (ASI ≤ 1.0)
T18 4MS2	W5 (1,70 m)	(1,50 m)	A (ASI ≤ 1.0)

Pressure-treated wood with chromium and arsenic-free preservatives



**tertu**  
EQUIPEMENTS  
roads and sites worldwide

61 160 Villedieu-lès-Bailleul  
FRANCE

Tel: +33 2 33 36 11 02  
Fax: +33 2 33 39 28 75

[www.tertu.com](http://www.tertu.com)



# T40



## T40 wood & steel guardrails

### A higher containment level

A wood & steel safety barrier for heavy vehicles

- ▶ The only wooden guardrail in Europe tested at containment level L2 (H2 + N2)
- ▶ High performance offering containment criteria for both Heavy Goods Vehicles - H2 & private cars - N2
- ▶ Low deflection in front of obstacles & severe level differences
- ▶ C€ certified
- ▶ Quick'n easy installation

# T40 wood & steel guardrails

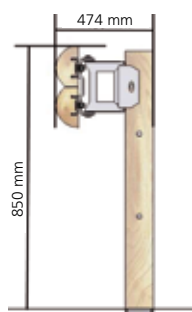
## ► Standards



Two half round log diameter 22 cm, length 4.00 m or 2.00 m backed with a steel U profile



Steel post IPE 140 covered with wood connected to a steel spacer



Post side view



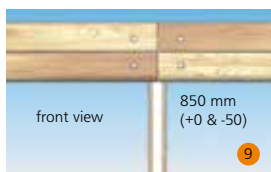
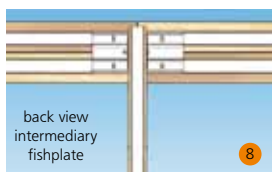
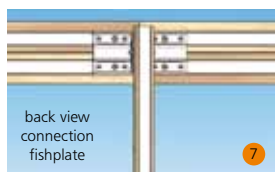
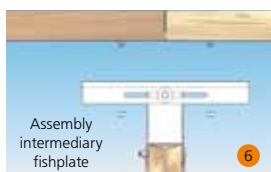
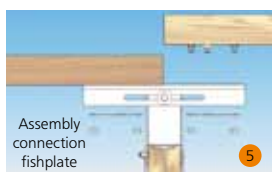
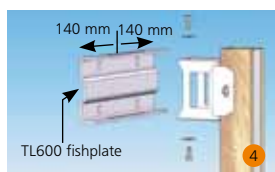
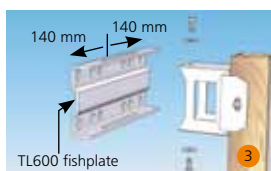
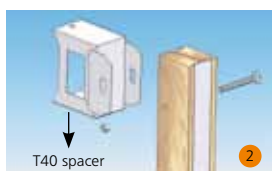
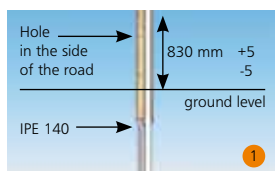
All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5.

T40 4MS2:  
containment level H2 & N2  
CE n° 1826 CPR 09 02 06 DR1

Notified body: ASCQUER

All our guardrails are ISO 9001 certified and CE marked since December 21, 2009

## ► Assembly



## ► Testing conditions

Containment level	Crash test criteria				Kinetic energy Kj	Recommended level of use
	Test	Speed of impact Kph	Angle of impact °	Total weight of vehicle Kg		
H2	TB 51	70 Kph	20°	13000 Kg	287,6 Kj	High containment
N2	TB 32	110 Kph	20°	1500 Kg	81,9 Kj	Normal containment
N2	TB 11	100 Kph	20°	900 Kg	40,6 Kj	Normal containment

## ► Performances

Model	Working width W	Dynamic deflection Dm	Severity class
T40 4MS2	H2 = W4 (1,20 m)	(0,80 m)	B (ASI ≤ 1.4)
T40 4MS2	N2 = W3 (1,00 m)	(0,50 m)	B (ASI ≤ 1.4)

Pressure-treated wood  
with chromium  
and arsenic-free preservatives



CE



**tertu**  
EQUIPEMENTS  
roads and sites worldwide

61160 Villedieu-lès-Bailleul  
FRANCE

Tel: +33 2 33 36 11 02  
Fax: +33 2 33 39 28 75

[www.tertu.com](http://www.tertu.com)

# T40 BP



**T40 BP wood & steel guardrails**

## **A containment level H2 for bridges**

Wood & steel safety barrier  
for heavy vehicles

- ▶ **Suitable for installation on bridges or concrete girders**
- ▶ **High performance offering containment level H2**
- ▶ **CE certified**
- ▶ **Quick'n easy installation, 2 m post spacing**



# T40 BP wood & steel guardrails

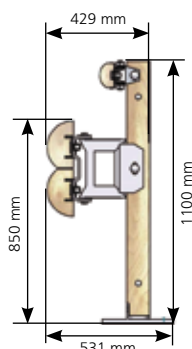
## ► Standards



Two half round log diameter 22 cm, length 4.00 m backed with a steel U profile



Handrail with half round log diameter 12 cm in 4.00 length - Steel post HEA 100 on steel base



Post side view



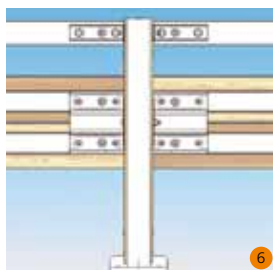
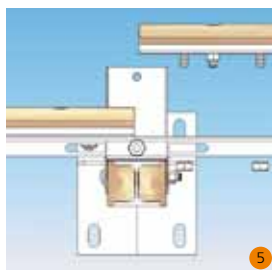
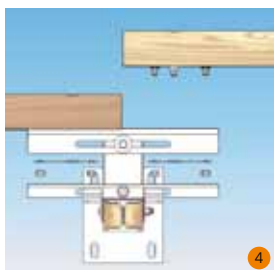
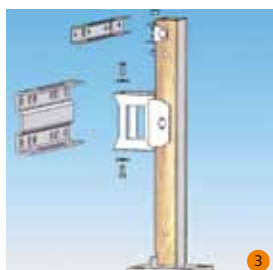
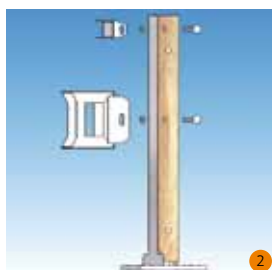
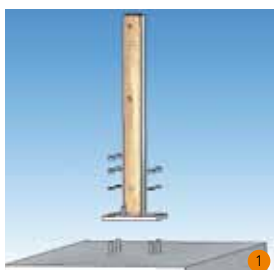
All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5.

T40 Bridge parapet:  
containment level H2  
CE n° 1826 CPR 09 02 06 DR2

Notified body: ASCQUER

All our guardrails are ISO 9001 certified and CE marked since December 21, 2009

## ► Assembly



## ► Testing conditions

Containment level	Crash test criteria				Kinetic energy Kj	Recommended level of use
	Test	Speed of impact Kph	Angle of impact °	Total weight of vehicle Kg		
H2	TB 51	70 Km/h	20°	13000 Kg	287,6 Kj	High containment
	TB 11	100 Km/h	20°	900 Kg	40,6 Kj	Normal containment

## ► Performances

Model	Working width W	Dynamic deflection Dm	Severity class
T40 Bridge parapet	W5 (1,50 m)	(1,30 m)	B (ASI ≤ 1.1)

Pressure-treated wood  
with chromium  
and arsenic-free preservatives



CE



**tertu**  
EQUIPEMENTS  
roads and sites worldwide

61160 Villedieu-lès-Bailleul  
FRANCE

Tel: +33 2 33 36 11 02

Fax: +33 2 33 39 28 75

[www.tertu.com](http://www.tertu.com)



# TM18



## TM18 wood & steel guardrails

### An improvement of a worldwide best seller

The most efficient Tertu timber  
guardrail system

- ▶ Working width W5, 4 m post spacing
- ▶ Working width W4, 2 m post spacing
- ▶ C€ certified
- ▶ Simplified assembly, easy installation

# TM18 wood & steel guardrails

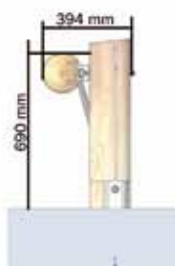
## ► Standards



Diameter 18 cm round log, backed with a steel U channel



C100 steel post in 1.50 m length covered with wood. Tensioner system



Side view



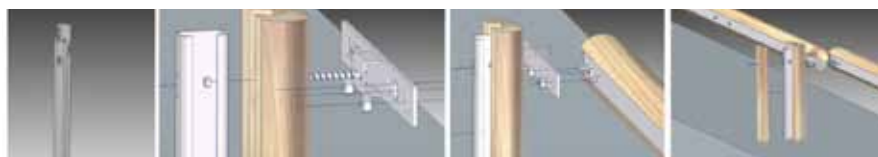
All our systems have been tested in accordance with the EN 1317-1-2-5 standards

TM18 4M: level N2  
CE n° 1826 CPD 09 02 06  
DR6 dated March 21, 2013

Notified body: ASCQUER

TM18 4MS2: level N2

All our guardrails systems are CE marked and ISO 9001 certified since the 21st of December 2009



\*Steel tensioner every 72 m

Pressure-treated wood with chromium and arsenic-free preservatives



CE



## ► Testing conditions

Containment level	Crash test criteria				Kinetic energy Kj	Recommended level of use
	Test	Speed of impact Kph	Angle of impact °	Total weight of vehicle Kg		
N2	TB 32	110 Kph	20°	1500 Kg	81,9 Kj	Normal containment
N2	TB 11	100 Kph	20°	900 Kg	40,6 Kj	Normal containment

## ► Performances

Model	Test	Working width W	Dynamic deflection Dm	Vehicle intrusion	Severity class	Barrier length
TM18 4M	TB 32	W5 (1,70 m)	(1,20 m)	VIn (1,30 m) VI4	A (ASI ≤ 1.1)	80 m
TM18 4MS2	TB 32	W4 (1,30 m)	(1,10 m)	VIn (1,00 m) VI3	A (ASI ≤ 0.7)	80 m

**tertu**  
EQUIPEMENTS  
roads and sites worldwide

61 160 Villedieu-lès-Bailleul  
FRANCE

Tel: +33 2 33 36 11 02  
Fax: +33 2 33 39 28 75

[www.tertu.com](http://www.tertu.com)