Roads

- **Tertu, the leading manufacturer of steel backed timber guardrails worldwide**
- **Offering a wide range of 14 crash-tested models**
- **All systems CE marked according to EN 1317 norm**

CE

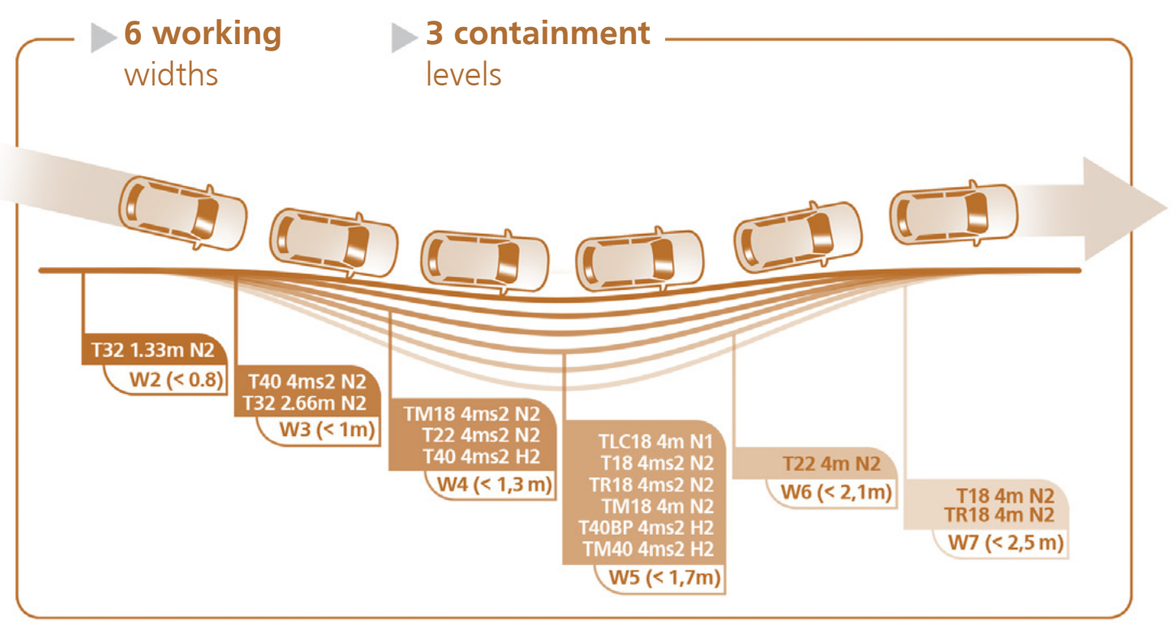
Products manufactured in our ISO 9001 certified factory
ISO 9001
BUREAU VERITAS
Certification
FR034574-1

tertu
EQUIPEMENTS

Safe itineraries range

Steel backed timber guardrails

Barriers	Post Spacing	Containment Level	Working Width (W)	Severity Class (ASI)	Dynamic Deflexion (D)	Vehicle Intrusion (VIn)	CE Certificate
TLC18	4 m	N1	W5 (1.7 m)	A	1.0 m		n° 1826 CPR 09 02 06 DR9
T32	1.33 m	N2	W2 (0.7 m)	B	0.6 m		n° 0497 CPR 5906
T32	2.66 m	N2	W3 (0.9 m)	B	0.8 m		n° 0497 CPR 5906
TM18	2 m	N2	W4 (1.3 m)	A	1.1 m		n° 1826 CPR 09 02 06 DR8
T22	2 m	N2	W4 (1.3 m)	A	1.0 m		n° 1826 CPR 09 02 06 DR7
T18	2 m	N2	W5 (1.7 m)	A	1.5 m		n° 1826 CPR 09 02 06 DR3
TR18	2 m	N2	W5 (1.7 m)	A	1.5 m		n° 1826 CPR 09 02 06 DR11
TM18	4 m	N2	W5 (1.7 m)	A	1.2 m		n° 1826 CPR 09 02 06 DR06
T22	4 m	N2	W6 (1.9 m)	A	1.8 m		n° 1826 CPR 09 02 06 DR5
T18	4 m	N2	W7 (2.5 m)	A	2.3 m		n° 1826 CPR 09 02 06 DR4
TR18	4 m	N2	W7 (2.5 m)	A	2.3 m		n° 1826 CPR 09 02 06 DR12
TM40	2 m	H2	W5 (1.6 m)	A	1.5 m	VI5 (1.7 m)	n° 1826 CPR 09 02 06 DR10
T40 BP	2 m	H2	W5 (1.5 m)	B	1.3 m	VI5 (1.7 m)	n° 1826 CPR 09 02 06 DR2
T40	2 m	L2 = N2 + H2	W3 (1.0 m) - N2 W4 (1.2 m) - H2	B	0.5 m (N2) 0.8 m (H2)	VI3 (1.0 m)	n° 1826 CPR 09 02 06 DR1



INNOVATION AND EXPORT: TERTU'S DNA

Since the introduction by Tertu of the first wood and steel crash-barrier in 1992, the company has innovated continuously to offer products compliant with the current legal requirements and road users'needs. Steel backed timber barriers combine the aesthetical, mechanical and absorption properties of the wood with the performance of the steel.

Today, Tertu has acquired a worldwide expertise in the road restraint systems field. Through a network of carefully selected distributors, Tertu's products are present in more than 40 countries. Its subsidiaries in Chile, Brazil, the United States and China, as well as license agreements in Korea and New-Zealand, complete the company's international profile & outreach.

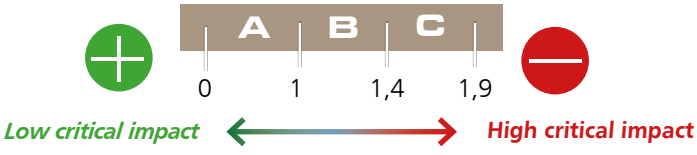
EN1317 standard

Containment levels

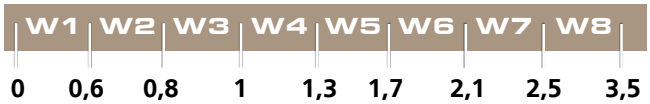
Levels of containment and crash-test criteria defined by the European standard EN 1317

Containment level	Crash test criteria				Kinetic energy (kJ)	Recommended level of use
	Test	Speed of impact (km/h)	Angle of impact (°)	Total weight of vehicle (kg)		
T1	TB 21	80 km/h	8°	1 300 kg	6,2 kJ	Temporary barriers
T2	TB 22	80 km/h	15°	1 300 kg	21,5 kJ	
T3	TB 41 TB 21	70 km/h 80 km/h	8°	10 000 kg 1 300 kg	36,6 kJ 6,2 kJ	
N1	TB 31	80 km/h	20°	1 500 kg	43.3 kJ	Normal containment
N2	TB 32 TB 11	110 km/h 100 km/h	20°	1 500 kg 900 kg	81.9 kJ 40,6 kJ	
H1	TB 42 TB 11	70 km/h 100 km/h	15° 20°	10 000 kg 900 kg	126,6 kJ 40,6 kJ	High containment
L1	TB 42 TB 32 TB 11	70 km/h 110 km/h 100 km/h	15° 20° 20°	10 000 kg 1 500 kg 900 kg	126,6 kJ 81.9 kJ 40,6 kJ	
H2	TB 51 TB 11	70 km/h 100 km/h	20°	13 000 kg 900 kg	287,6 kJ 40,6 kJ	
L2	TB 51 TB 32 TB 11	70 km/h 110 km/h 100 km/h	20°	13 000 kg 1 500 kg 900 kg	287,6 kJ 81.9 kJ 40,6 kJ	
H3	TB 61 TB 11	80 km/h 100 km/h	20°	16 000 kg 900 kg	462,1 kJ 40,6 kJ	
L3	TB 61 TB 32 TB 11	80 km/h 110 km/h 100 km/h	20°	16 000 kg 1 500 kg 900 kg	462,1 kJ 81.9 kJ 40,6 kJ	
H4a	TB 71 TB 11	65 km/h 100 km/h	20°	30 000 kg 900 kg	572 kJ 40,6 kJ	Very high containment
H4b	TB 81 TB 11	65 km/h 100 km/h	20°	38 000 kg 900 kg	724,6 kJ 40,6 kJ	
L4a	TB 71 TB 32 TB 11	65 km/h 110 km/h 100 km/h	20°	30 000 kg 1 500 kg 900 kg	572 kJ 81.9 kJ 40,6 kJ	
L4b	TB 81 TB 32 TB 11	65 km/h 110 km/h 100 km/h	20°	38 000 kg 1 500 kg 900 kg	724,6 kJ 81.9 kJ 40,6 kJ	

Acceleration Severity Index (ASI)



Deflexion : working width (W)



Crédits photos et conception : Tertu SAS - Impression : Caen repro - Mars 2020

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Steel back timber guardrail **TLC18**

ROAD SAFETY

- **Containment level N1**
- **Working width W5**
- **Dynamic deflexion 1.00 m**
- **ASI A**

EN 1317

CE

PEFC 10-31-2216
Promouvoir la gestion durable de la forêt
pefc-france.org

Products manufactured in our ISO 9001 certified factory
ISO 9001 BUREAU VERITAS Certification
FR034574-1

tertu EQUIPEMENTS

Steel backed timber guardrail TLC18

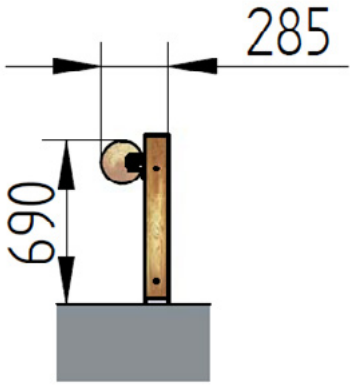
Testing conditions

Containment level	Crash test criteria				Kinetic energy	Recommended level of use
	Test	Speed of impact	Angle of impact	Total weight of vehicle		
N1	TB 31	80 km/h	20°	1 500 kg	43,3 kj	Normal containment

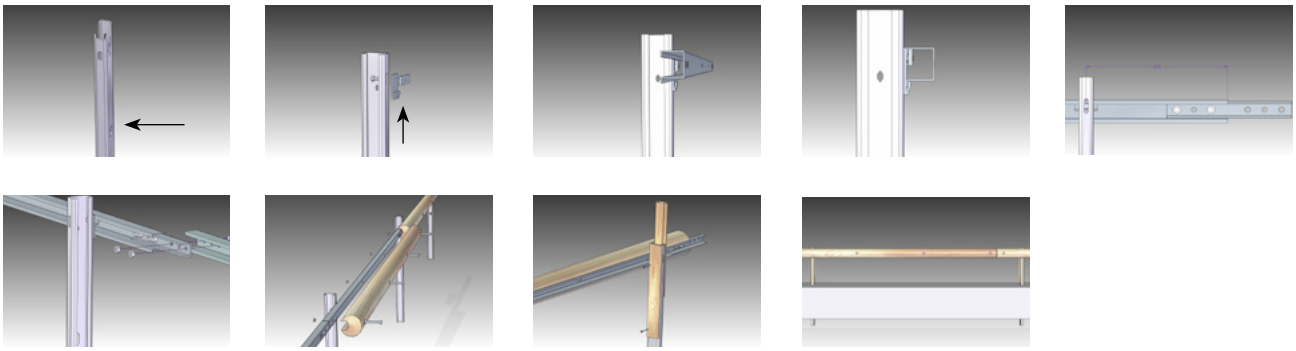
Model	Working width (W)	Dynamic deflection (Dm)	Severity class (ASI)	Vehicle intrusion (VIN)	Minimal length recommended (m)
TLC18 4 m	W5 (1.70 m)	1.00 m	A (≤ 1.0)	Vi3 = 1.00 m	48 m

Technical information

- Rail made of a round log 18 cm diameter and 4 m length, prepared to embed the G steel channel
- C100 steel posts in 1.50 m, with 4 m spacing, with optional wooden cladding
- Pressure-treated wood with chromium and arsenic-free preservatives



Assembly



Certificate

- All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5
- TLC18 4 m : CE n°1826 CPR 09 02 06 DR9
- Notified body : **ASCQUER**

CE

Crédits photos et conception : Tertu SAS - Impression : Caen repro - Mars 2020

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Steel backed timber guardrail **T18**

ROAD SAFETY

- **N2 W7, 4 m spacing**
- **N2 W5, 2 m spacing**
- **ASI A**

EN 1317

CE

tertu EQUIPEMENTS

Steel backed timber guardrail T18

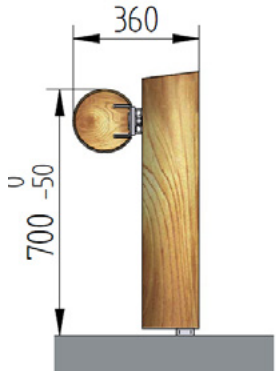
Testing conditions

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

Model	Working width (W)	Dynamic deflection (Dm)	Severity class (ASI)	Vehicle intrusion (ViN)	Minimal length recommended (m)
T18 4 m	W7 (2.50 m)	2.30 m	A (≤ 1.0)	Vi7 = 2.30 m	60 m
T18 4ms2	W5 (1.70 m)	1.50 m	A (≤ 1.0)	Vi5 = 1.70 m	80 m

Technical information

- Rail made of a round log diameter 18 cm, length 4.00 m backed with a steel U profile inserted in the wooden rail
- C100 steel posts with 4 m spacing (or 2 m spacing), with wooden cladding
- Pressure-treated wood with chromium and arsenic-free preservatives



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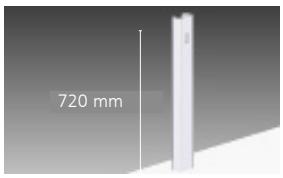

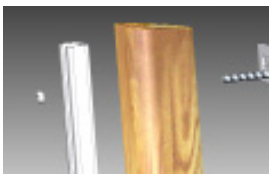

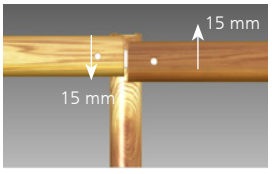

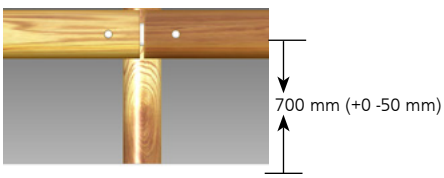

Certificate

- All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5
- T18 4 m : CE n° 1826 CPR 09 02 06 DR4
- T18 4ms2 : CE n° 1826 CPR 09 02 06 DR3
- Notified body : **ASCQUER**

CE

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Crédits photos et conception : Tertu SAS - Impression : Caen repro - mars 2020 - MAJ numérique : juillet 2021

Steel backed timber guardrail **TR18**

ROAD SAFETY

- **N2 W7, 4 m spacing**
- **N2 W5, 2 m spacing**
- **ASI A**

EN 1317

CE

tertu EQUIPEMENTS

Steel backed timber guardrail TR18

Testing conditions

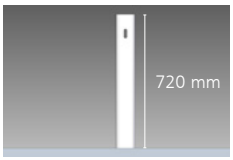
Containment level	Crash test criteria				Kinetic energy	Recommended level of use
	Test	Speed of impact	Angle of impact	Total weight of vehicle		
N2	TB 32	110 km/h	20°	1500 kg	81,9 kj	Normal containment
	TB 11	100 km/h	20°	900 kg	40,6 kj	

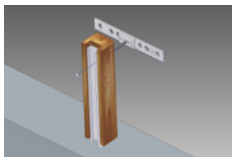
Model	Working width (W)	Dynamic deflection (Dm)	Severity class (ASI)	Vehicle intrusion (VIN)	Minimal length recommended (m)
TR18 4m	W7 (2.50 m)	2.30 m	A (≤ 1.0)	Vi7 = 2.30 m	60 m

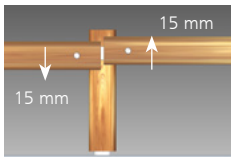
Technical information

- Square rails with sections of 170 x145 mm, 4 m length (or 2 m for the 4ms2 model), backed with a steel U profile inserted in the wooden rail
- C100 steel posts with 4 m spacing (or 2 m spacing), with a wooden square spacer 170 x 180 x 730 mm
- Pressure-treated wood with chromium and arsenic-free preservatives

Assembly







Certificate

- All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5
- TR18 4 m : CE n° 1826 CPR 09 02 06 DR12
- TR18 4ms2 : CE n° 1826 CPR 09 02 06 DR11
- Notified body : **ASCQUER**

CE

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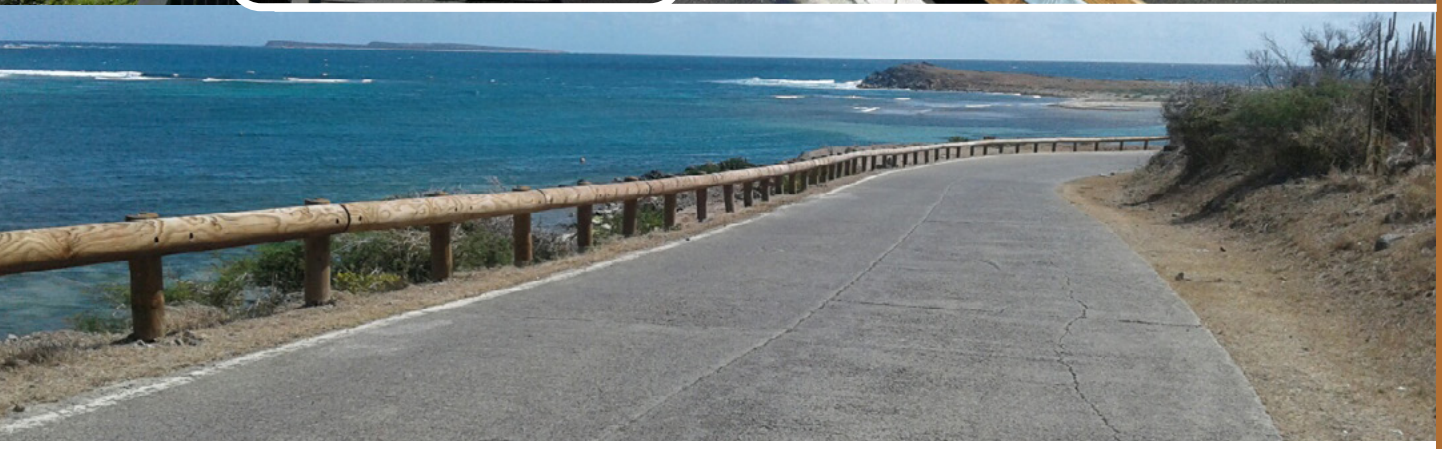
Steel backed timber guardrail **T22**

ROAD SAFETY



- **N2 W6, 4 m spacing**
- **N2 W4, 2 m spacing**
- **ASI A**

EN 1317

CE

tertu EQUIPEMENTS

Steel backed timber guardrail T22

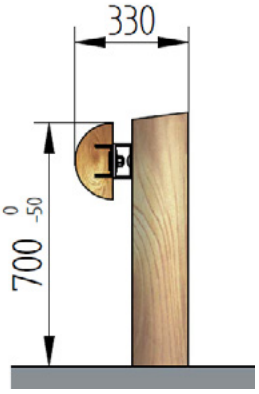
Testing conditions

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

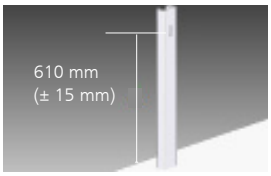
Model	Working width (W)	Dynamic deflection (Dm)	Severity class (ASI)	Vehicle intrusion (VIN)	Minimal length recommended (m)
T22 4m	W6 (1.9 m)	1.8 m	A (≤ 1.0)	VI6 (1.9 m)	72 m
T22 4ms2	W4 (1.3 m)	1.0 m	A (≤ 1.0)	VI3 (0.9 m)	72 m

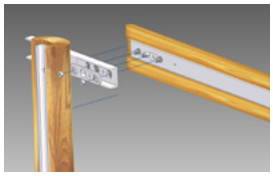
Technical information

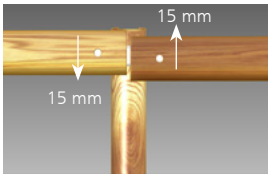
- Rail made of half round log diameter 22 cm, length 4.00 m (or 2.00 m) backed with a steel U profile inserted in the wooden rail
- C100 posts with 4 m spacing (or 2 m spacing), with a wodden spacer diameter 18 cm
- Pressure-treated wood with chromium and arsenic-free preservatives

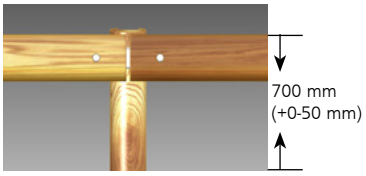


Assembly









Certificate

- All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5
- T22 4 m : CE n° 1826 CPR 09 02 06 DR5
- T22 4ms2 : CE n° 1826 CPR 09 02 06 DR7
- Notified body : **ASCQUER**

CE

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Steel backed timber guardrail **T32**

ROAD SAFETY

- **N2 W2, 1.33 m spacing**
- **N2 W3, 2.66 m spacing**
- **ASI B**

EN 1317

CE

tertu EQUIPEMENTS

Steel backed timber guardrail T32

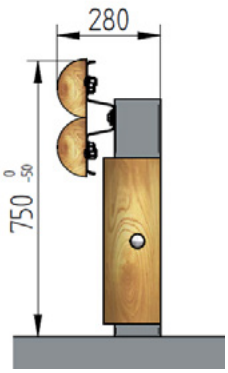
Testing conditions

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

Model	Working Width (W)	Dynamic Deflexion (Dm)	Severity Class (ASI)	Minimal length recommended (m)
T32 1.33 m	W2 (0.70 m)	0.60 m	B (≤ 1.4)	72 m
T32 2.66 m	W3 (0.90 m)	0.80 m	B (≤ 1.4)	72 m

Technical information

- B profile steel rail (296x4300x2.5 mm) cladded with four half round logs of 16 cm
- C125 steel posts with post spacing 1.33 m (or 2.66 m)
- Pressure-treated wood with chromium and arsenic-free preservatives



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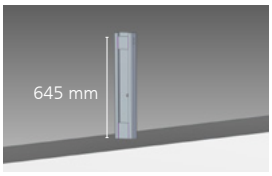

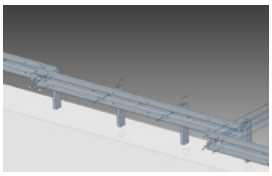
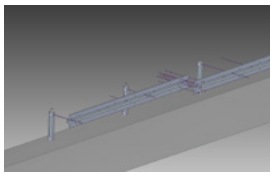
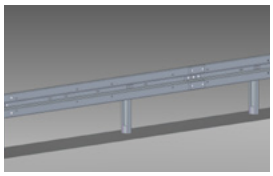
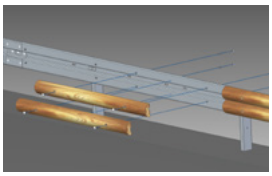
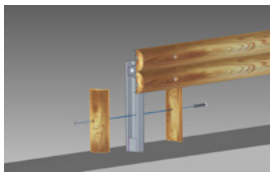

Certificate

- All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5
- T32 : CE n° 0497/CPR/5906
- Notified body : **CSI**

CE

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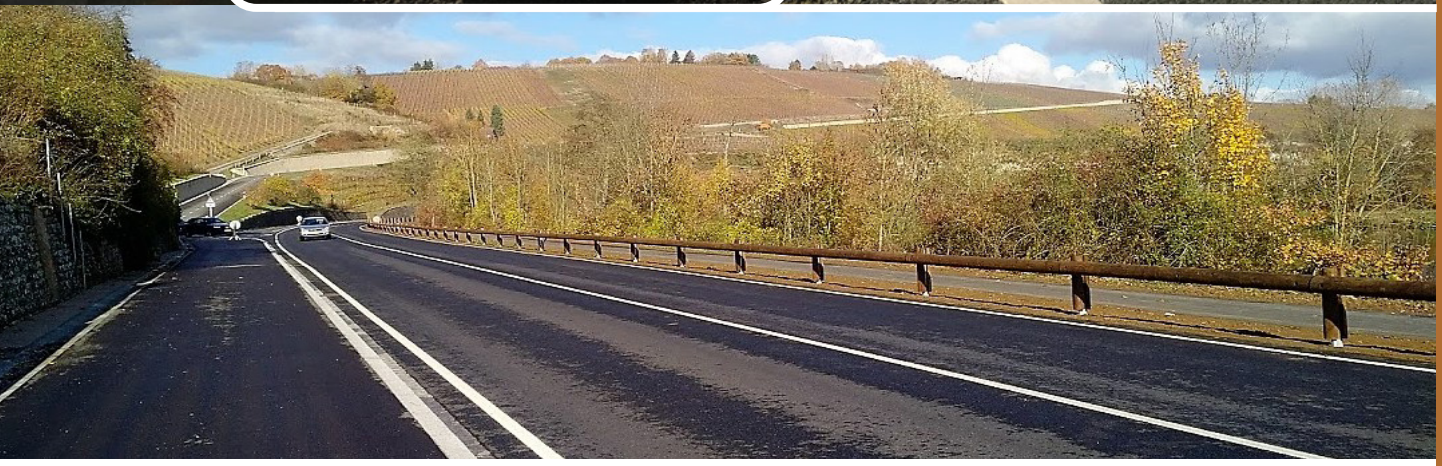
Steel backed timber guardrail **TM18**

ROAD SAFETY

TM18



- **N2 W5, 4 m spacing**
- **N2 W4, 2 m spacing**
- **ASI A**

EN 1317

CE

tertu EQUIPEMENTS

Steel backed timber guardrail TM18

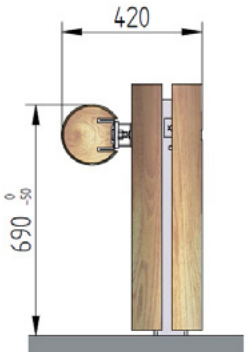
Testing conditions

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

Model	Working Width (W)	Dynamic Deflexion (Dm)	Severity Class (ASI)	Vehicle Instrusion (VIN)	Minimal length recommended (m)
TM18 4m	W5 (1.70 m)	1.20 m	A (≤ 1.0)	Vi4 = 1.30 m	72 m
TM18 4ms2	W4 (1.30 m)	1.10 m	A (≤ 1.0)	Vi3 = 1.00 m	72 m

Technical information

- Rail made of a round log, diameter 18 cm, backed with a steel U channel inserted in the wooden rail
- C100 steel posts in 1.50 m, 4 m spacing (or 2 m spacing) with a wooden spacer diameter 18 cm
- Upstream & downstream tensioner kit
- Pressure-treated wood with chromium and arsenic-free preservatives



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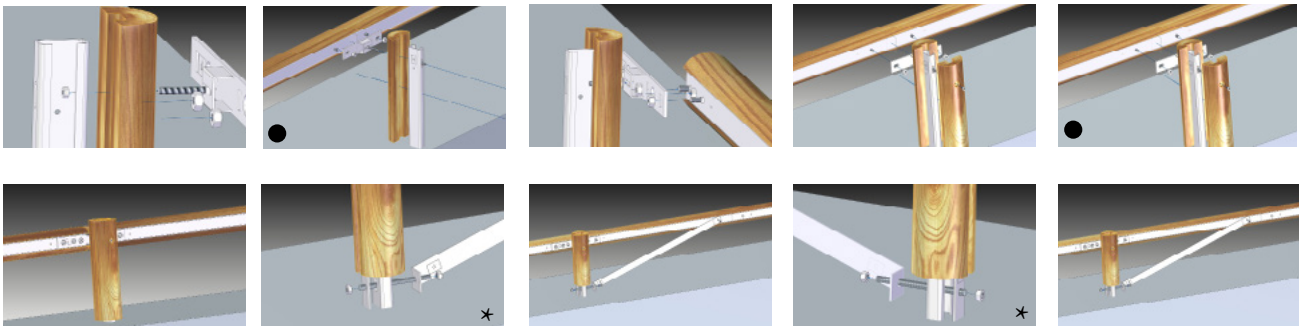

● *Configuration in 4ms2* * *Installed every 72 m*

Certificate

- All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5
- TM18 4m : CE n° 1826 CPR 09 02 06 DR06
- TM18 4ms2 : CE n° 1826 CPR 09 02 06 DR8
- Notified body : **ASCQUER**

CE

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Crédits photos et conception : Tertu SAS - Impression : Caen repro - Mars 2020

Steel backed timber guardrail **TM40**

ROAD SAFETY

TM40

- **Containment level H2**
- **Working width W5**
- **ASI A**

EN 1317

CE

tertu EQUIPEMENTS

Steel backed timber guardrail TM40

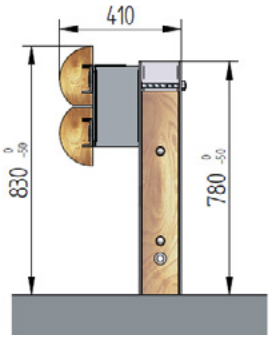
Testing conditions

Containment level	Crash test criteria				Kinetic energy	Recommended level of use
	Test	Speed of impact	Angle of impact	Total weight of vehicle		
H2	TB 51	70 km/h	20°	13 000 kg	287,6 kj	High containment
	TB 11	100 km/h	20°	900 kg	40,6 kj	

Model	Working Width (W)	Dynamic Deflexion (Dm)	Severity Class (ASI)	Vehicle Instrusion (VIN)	Minimal length recommended (m)
TM40 4mS2	W5 (1.60 m)	1.50 m	A (≤ 1.0)	Vi5 = 1.70 m	72 m

Technical information

- Rails built with 2 half round logs diameter 22 cm and reinforced with 2 steel channels 4 m length inserted on the back of the rail
- IPE steel posts 140 x 1.70 m wooden cladded, post spacing 2 m
- Upstream and downstream tensioner kit
- Pressure-treated wood with chromium and arsenic -free preservatives



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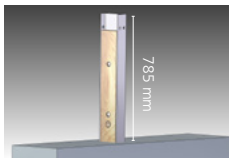

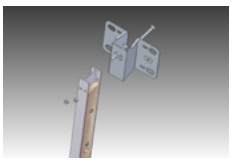
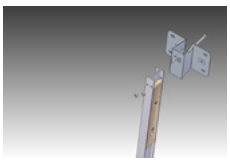
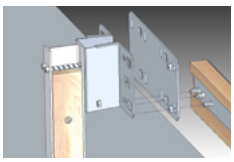
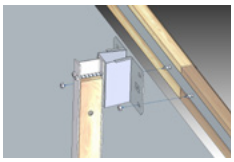
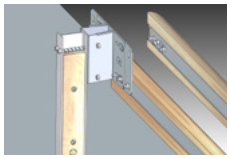
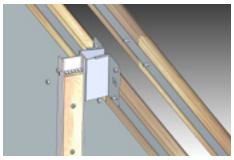

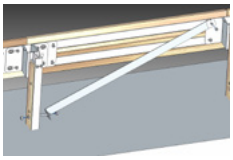

Certificate

- All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5
- TM40 4ms2 : CE n° 1826 CPR 09 02 06 DR10
- Notified body : **ASCQUER**

CE

Crédits photos et conception : Tertu SAS - Impression : Caen repro - Mars 2020

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Steel backed timber guardrail **T40**

ROAD SAFETY

- **Containment level : L2 (H2 + N2)**
  N2 W3 - light vehicles
  H2 W4 - heavy vehicles
- **ASI B**

EN 1317

CE

tertu EQUIPEMENTS

Steel backed timber guardrail T40

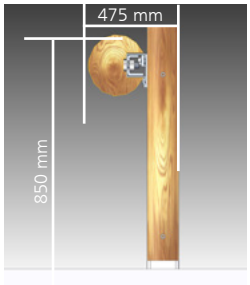
Testing conditions

Containment level	Crash test criteria				Kinetic energy	Recommended level of use
	Test	Speed of impact	Angle of impact	Total weight of vehicle		
H2	TB 51	70 km/h	20°	13 000 kg	287,6 kj	High containment
N2	TB 32	110 km/h	20°	1 500 kg	81,9 kj	Normal containment
N2	TB 11	100 km/h	20°	900 kg	40,6 kj	

Model	Working Width (W)	Dynamic Deflexion (Dm)	Severity Class (ASI)	Vehicle Instrusion (VIN)	Minimal length recommended (m)
T40 4mS2	W3 (1.0 m) - N2 W4 (1.2 m) - H2	0.50 m - N2 0.80 m - H2	B (≤ 1.4)	Vi3 = 1.00 m	92 m

Technical information

- Rails built with 2 half round logs, diameter 22 cm, 4 m or 2 m long, backed with a steel U profile inserted in the wooden rails
- IPE 140 steel posts, length 2 m, with 2 premounted wooden cladding
- Pressure-treated wood with arsenic-free preservatives



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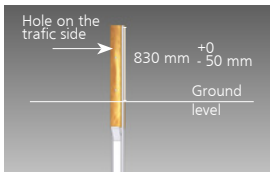

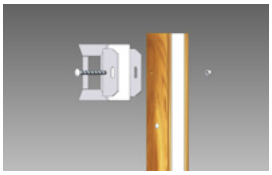

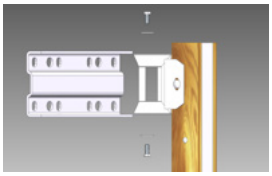

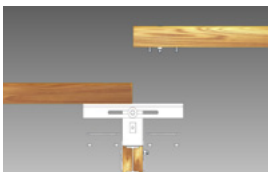

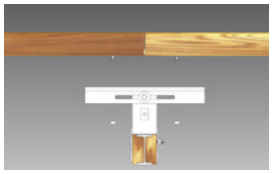

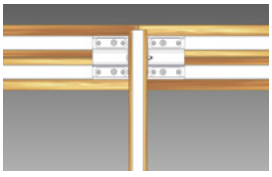

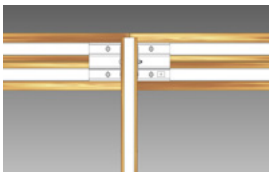

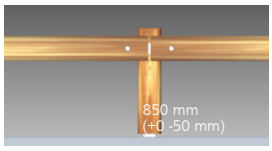

Certificate

- All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5
- T40 4ms2 : CE n° 1826 CPR 09 02 06 DR1
- Notified body : **ASCQUER**

CE

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Steel backed timber guardrail **T40BP**

ROAD SAFETY

- **Barriers for bridge parapet**
- **Containment level H2**
- **Working Width W5**
- **ASI B**

EN 1317

CE

tertu EQUIPEMENTS

Steel backed timber guardrail T40BP

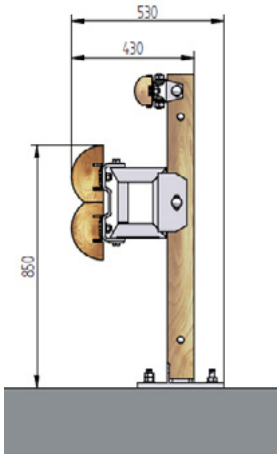
Testing conditions

Containment level	Crash test criteria				Kinetic energy	Recommended level of use
	Test	Speed of impact	Angle of impact	Total weight of vehicle		
H2	TB 51	70 km/h	20°	13 000 kg	287,6 kj	High containment
	TB 11	100 km/h	20°	900 kg	40,6 kj	

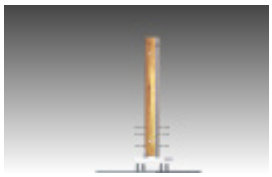
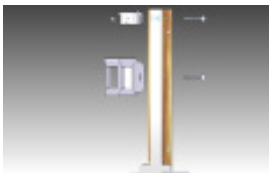
Model	Working Width (W)	Dynamic Deflexion (Dm)	Severity Class (ASI)	Vehicle Instrusion (VIN)	Minimal length recommended (m)
T40 BP 4mS2	W5 (1.50 m)	1.30 m	B (≤ 1.4)	Vi5 = 1.70 m	94 m

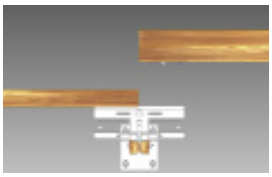
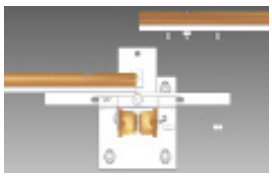
Technical information

- Two half round log diameter 22 cm, length 4.00 m, backed with a steel U profile inserted in the wooden rails
- Handrail with half round log diameter 12 cm in 4.00 length backed with a steel U profile 120 mm*200 mm*3 mm
- Steel post HEA 100 on steel base, 2 m spacing, with 2 premounted wooden cladding
- Anchored on concrete base
- Pressure-treated wood with arsenic-free preservatives



Assembly

Certificate

- All our guardrails have been tested in accordance with the requirements of standards EN 1317 1-2-5
- T40BP 4ms2 : CE n° 1826 CPR 09 02 06 DR2
- Notified body : **ASCQUER**

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ROAD SAFETY

Accessories

- **Additional devices for an optimal safety**
- **Technical solutions adapted to installation conditions**

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Steel backed timber guardrail accessories

Motocyclist protection

- Hot-dip galvanised steel panel, standard powder coated (RAL 7008)
- Fitting all Tertu guardrails
- Length : 4.32 m for post spacing 1.33 m, 2.00 m, 2.66 m and 4.00 m
- Thickness 2 mm, profile height 370 mm
- Model T connection to post and terminal U

Reflec'Bois

- Night vision signage product with retro-reflective strip class II (Réthioflex® – French standard)
- Fitting all Tertu guardrails
- 8 cm diameter round log, 11 cm length
- Placed on steel backed timber guardrail

Handrail extension

- Round log, diameter 12 cm, length 4.00 m, with chamfer mounted onto the steel connecting tube
- Powder coated steel handrail (RAL 7008), made of 1 arm (or 2 arms) connecting tube and 1 steel part curved to be adjusted to the rail
- Also available handrail extension connected directly to the wooden spacer of the guardrail

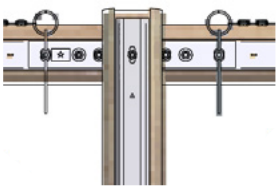
Wooden cladding

- C100 post planed wooden cover : Wooden cover inserted inside steel post wings to offer the appearance of a complete 18 cm round log
- Steel U-profile wood covering : Designed to cover the U channel steel reinforcement which is pre-drilled for securing with screws wooden pieces of 4 m or 2 m in length

Dropped end terminal on concrete girders

- T18 or T22 guardrail 4 m dropped end terminal with 3 C100 posts on steel base at 0.70 m height, then 0.50 m height (middle position), and to end at 0.18 m height

Emergency gating section



- T18 or T22 guardrail en 4 m or 2 m with removable C100 posts.
- Assembly of the guardrails with spindles and woodruff key.

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Steel backed timber guardrail **transitions**

ROAD SAFETY

Transitions

- **Transitions between Tertu guardrails**
- **Technical solutions adapted to installation conditions**

tertu EQUIPEMENTS

Steel backed timber guardrail transitions

Transitions between Tertu guardrails

- T18 4ms2 ◂ ▸ TM18 4m
- TM18 4m ◂ ▸ TM18 4ms2
- T40BP 4ms2 ◂ ▸ T40 4ms2
- T40 4ms2 ◂ ▸ T22 4ms2
- T32 2.66m ◂ ▸ T32 1.33m

Transition wood-steel (T.A.T)

- Steel transition between T18, TM18, T22 guardrails to steel guardrails profiles A and B
- Use to connect guardrails with energy absorbing end Terminals P2 or P4 according to ENV1317-4
- Tested at containment level N2 according to ENV1317-4 standard

Transition to wall (T18, TM18, T22)

- Pre-assembled component including 1 m long guardrail, one powder coated (RAL 7008) piece bolted to the wall or concrete barrier with a wooden spacer
- Suitable for various wall configurations

Transition T40 guardrail to A profile steel barrier

- Special steel piece of connection combined with a chamfered wood component

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Solutions for laying out your sites

Sites

PROTECTION AND CROSSING

- **Wood or Mixed Wood & Steel solutions that fit into your projects**
- **Equipments designed to meet green-engineering expectations**

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Laying out your spaces...

Pedestrian parapets

- A range of parapets tested in accordance with the XP98-405 French standard to secure pedestrians and cyclists traffic
- Products suitable for curves and slopes

Acoustic screens

- Reflecting or absorbing screens designed and tested according to the European standards
- Eco-friendly and natural storage of CO_2

Decking and Stilts

- Tertu decking can be installed on the ground or stilts. The maximum support spacing can be up to 4 m. Anti skid flooring
- Easy to install solutions

Roads & car parks equipments

- A wide range of wood & steel products to channel and orientate the flow of vehicles whilst protecting pedestrians.
- Green-engineering and efficient solutions fitting all kind of surroundings.

...with enhancement and safety

Wood & steel or solid wood bridges

- Aesthetic & long-lasting bridges designed according to the Eurocodes
- Customized solutions for pedestrians, cyclists and light vehicles
- Easy to install & to maintain
- Suitable for natural protected areas
- Technical expertise to achieve your project

Tertu support

Expertise & studies

Tertu provides its expertise, reactivity and team spirit to your projects, always keeping in mind people safety while respecting the environment.

A bridge project ? Tertu, with the support of its partners, guides you at every stage of your project from design to installation, for a **turnkey bridge solution** :

- Soil studies
- Analysis of the environment of the future footbridge; strengths and constraints
- Calculation of the resistance of the structure: load tests, calculation according to the climatic conditions (wind, snow) ...
- Vibration check
- Support conditions and foundations (concrete abutments or driven wooden poles)
- Study of off bridge equipment and surroundings (lighting, decking, railings ...)
- Budget evaluation

Tertu commits to cooperate with project managers, local authorities and specialized design offices in order to secure its bridges and ensure their adaptation to the conditions of use as well as the local environmental constraints, in accordance with the Eurocodes.

Whatever scope & size of your project are, do not hesitate to ask us for advice. We will guide you at the design stage : writing the specifications, drawing of the execution plans....Tertu can ensure the technical design of wooden or wood-metal bridges whatever will be the type of users: pedestrians, cyclists, light vehicles.

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Bridges for pedestrians & vehicles

CROSSING

Bridges

- Calculation note according to Eurocodes 3 or 5
- All-wood or wood & steel solutions for eco-friendly projects
- Span up to 50 m
- Vehicles weight up to 3.5 t

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Wood & steel bridges

Hirson

- Horizontal wood & steel bridge
- Galvanised steel structure with wooden cladding
- Grooved wooden decking :
  - 50 or 80 mm thick (vehicles)
  - 36 mm thick (pedestrians)
- Wood & steel parapets :
  T100 or T140, tested according to the French experimental standard XP P98-405 (reinforced by a T18 or a T22 guardrail for vehicles)
- Length : 6 m to 50 m
- Clear span : length - 1 m
- Delivered assembled up to 16 m long and 2.12 m large
- Components to be connected for longer dimensions

Montfort

- Curved wood & steel bridge
- Galvanised steel structure with wooden cladding
- Grooved wooden decking :
  - 50 or 80 mm thick (vehicles)
  - 36 mm thick (pedestrians)
- Wood & steel parapets :
  T100 or T140, tested according to the French experimental standard XP P98-405 (reinforced by a T18 or a T22 guardrail for vehicles)
- Length : 6 m up to 40 m
- Clear span : length - 1 m
- Delivered assembled up to 16 m long and 2.12 m large
- Components to be connected for longer dimensions

Solid wood bridges

Camargue

- Solid Wood bridge
- Structure made of logs of 10, 12 and 28 cm of diameter
- Grooved wooden decking :
  - 50 or 80 mm thick (vehicles)
  - 36 mm thick (pedestrians)
- Deck thickness according to span : from 500 mm to 570 mm
- Wood & steel parapets :
  T100 or T140, tested according to the French experimental standard XP P98-405 (reinforced by a T18 or a T22 guardrail for vehicles)
- Length up to 9 m (pedestrians) and 6 m (vehicles)
- Clear span : length - 1 m
- Delivered assembled up to 2.12 m large or in 2 parts when superior dimensions

Golf

- Light bridge
- Sawn boards structure
- Grooved wooden decking 36 mm to 80 mm
- Total thickness : 186 to 336 mm according to crossing distance and considered overloading
- Length: 7 m maximum
- Clear span : length - 1 m
- Delivered assembled for a 500 kg/sqm maximum overloading
- Pedestrian parapet & wheel stop are optional

Bridges for pedestrians & vehicles

Eurocodes

Our gangways dimensions follow the Eurocode recommendations. Structure calculations are established according to the rules :

- AFNOR P06-113-1 et NA

« EN1991-1-3 Eurocode 1 : Effects on structures Part 1-3, General Effects – Snow loads» EC1-1-3

- AFNOR P06-114-1 et NA

« EN1991-1-4 Eurocode 1 : Actions on structures Part 1-4, General effects Wind Effects» EC1-1-4

- AFNOR P06-114-1 et NA

« EN1993-1-1 Eurocode 3 - Steel structure calculation – Part 1-1, General Rules and rules for the construction industry» EC3-1-1

« EN 1955-1-1 et 1995-2 Eurocodes 5 - Conception and calculation for wooden structures. Part 1-1 Standard regulations and regulations for the buildings - 2 Bridges » EC-1-1 et 2

- PARAPETS STANDARDS

NF P01-012 - XP P98-405

Tertu support

Tertu, with the support of its partners, guides you at every stage of your project from design to installation, for a turnkey bridge solution.

From the soils study to laying out of the bridge sourrounding (lighting, decking, railings ...), Tertu commits at your sides to adapt its briges to your requirements taking care of the conditions of use as well as the local environmental constraints, in accordance with the Eurocodes.

For Tertu, close follow up of your projects is a pre-condition of its successful achievement. The company collaborates with carefully selected professionals of various professions (carpentry, masonry, electricity...) to cover up all the needs relating to the installation of a new structure : site preparation, assembly or covering of the bridge, integration within the surroundings...

Pressure-treated wood with chromium and arsenic-free preservatives

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Parapets

- Suitable products for curves and slopes
- “Quick’n Easy” installation process
- Aesthetic & eco-friendly solutions
- Tested according to French standards

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Pedestrian parapets

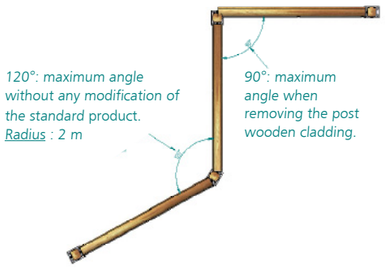
T100

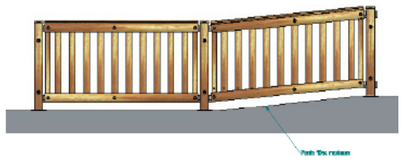
- Galvanised steel post on steel base with wooden cladding
- Wooden panel with vertical barrels
- Connections « panel-post » with galvanised steel parts
- « Panel to post » locking system

Ground clearance : 0.10 m / Post spacing : 2.00 m

Barrel spacing : 0.10 m / Height above ground : 1.03 m

Options : -post to be sealed
- extendable with an adjustable post
- wooden cover for terminal post





standard product

T120

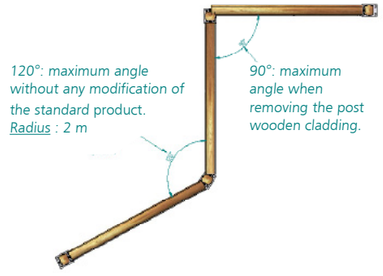
- Galvanised steel post on steel base with wooden cladding
- Wooden panel with vertical barrels
- Connections « panel-post » with galvanised steel parts
- « Panel to post » locking system

Ground clearance : 0.10 m / Post spacing : 2.00 m

Barrel spacing : 0.10 m

Height of the handrail above ground : 1.22 m

Options : - post to be sealed
- wooden cover for terminal post



10% maximum gradient without any modification of the standard product

T100 H

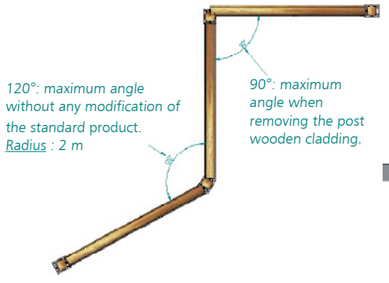
- Galvanised steel post on steel base with wooden cladding
- Wooden panel with horizontal barrels
- Connections « panel-post » with galvanised steel parts
- « Panel to post » locking system

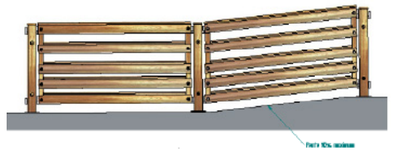
Ground clearance : 0.10 m / Post spacing : 2.00 m

Barrel spacing : 45 mm /45 mm and 95 mm/ 95 mm

Height above ground : 1.03 m

Options : -post to be sealed
- extendable with an adjustable post
- wooden cover for terminal post





standard product

T140

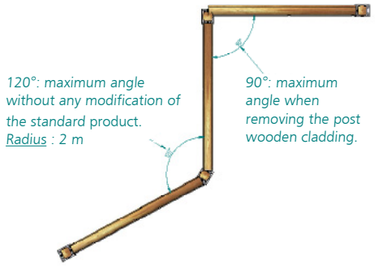
- Galvanised steel post on steel base with wooden cladding
- Wooden panel with vertical barrels with handrail
- Connections « panel-post » with galvanised steel parts
- « Panel to post » locking system

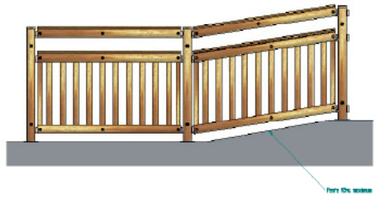
Ground clearance : 0.10 m / Post spacing : 2.00 m

Barrel spacing : 0.10 m

Height of the handrail above ground : 1.40 m

Options : post to be sealed, wooden cover for terminal post, LED included above handrail

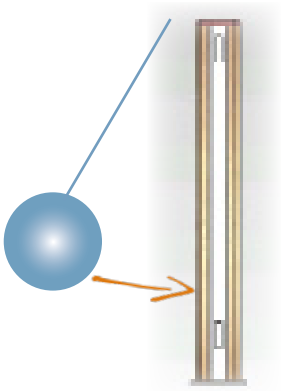




10% de maximum gradient without any modification

Pedestrian parapets

Standards



Tested according to the French standards **XP P98-405.**
Designed according to **NF 01-012.**

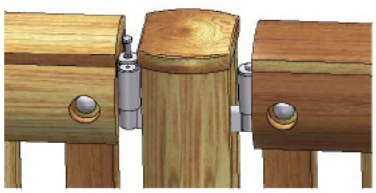
Static loads

Pedestrian parapet on bridges - Test reports available upon request.

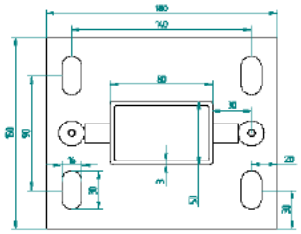
Model	Uniform & horizontal load		Uniform & vertical load	Dynamic load
T100	*Minimal* 2 740 N/m	*Average* 2 790 N/m	1000 N/m	50 kg bag /alpha < 65° 0.5 kg marble: L > 1.75 h
T100 H	*Minimal* 2 400 N/m	*Average* 2 510 N/m	1000 N/m	50 kg bag /alpha < 65° 0.5 kg marble: L > 1.75 h
T120	*Minimal* 2 230 N/m	*Average* 3 030 N/m	1000 N/m	S50 kg bag /alpha < 65° 0.5 kg marble: L > 1.75 h
T140	*Minimal* 2 140 N/m	*Average* 2 690 N/m	1000 N/m	50 kg bag /alpha < 65° 0.5 kg marble: L > 1.75 h

IMPORTANT RECOMMENDATIONS FOR INSTALLATION
When testing the system, each post has been anchored with a minimum of **2 mechanical studs Ø 12-120 on concrete base** of a compressive strength of 25 Mpa.
These specifications shall be considered as a minimum for the installation.

Details



"Panel to post" locking system



Post steel base

Pressure-treated wood with chromium and arsenic-free preservatives

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Reinforced parapets

- **Efficient solutions to protect both road users and pedestrians**
- **Crashworthy & aesthetic safety vertical marking**

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Reinforced parapets

Reinforced T100 with T18 or T22

- Galvanised steel post on steel base with wooden cladding
- Wooden panel with vertical barrels
- Connections « panel-post » with galvanised steel parts
- « Panel to post » locking system
- T18 ou T22 steel backed timber guardrail

Ground clearance : 0.10 m, Post spacing : 2.00 m
Barrel spacing : 0.10 m
Height above the ground : 1.03 m

Reinforced T140 with T18 ou T22

- Galvanised steel post on steel base with wooden cladding
- Wooden panel with vertical barrels with handrail
- Connections « panel-post » with galvanised steel parts
- « Panel to post » locking system
- T18 ou T22 steel backed timber guardrail

Ground clearance : 0.10 m / Post spacing : 2.00 m
Barrel spacing : 0.10 m
Height of the handrail above ground : 1.22 m

Lot

- Built from our T22 2m or T22 4ms2 wood & steel guardrail, 4-height railing
- C125 post on steel base

Height above ground : 1.00 m

Vervins

- Built from our T18 2m or T18 4ms2 wood & steel guardrail, triple railing
- C125 post on steel base

Height above ground : 1.00 m

Pressure-treated wood with chromium and arsenic-free preservatives

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PROTECTION

Roads & car parks

- **Directing & controlling the flows**
- **Securing pedestrians**
- **Dividing lanes**

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Railings

Car park railing

- Round beam, ø 16 cm, length 4.00 m, placed on the front side of the post
- C100 galvanised post, length 1.50 m with a wooden spacer, length 0.75 m
- Galvanised fishplate

Post spacing : 4.00 m

Height of rail above the ground : 0.71 m

Option: Wooden cladding for C100 with antivandalism fastening

Ref. : PKG-16C100

Lavandou railing

- Round beam, ø 14 cm, length 2.50 m
- Round wooden post, length 1.50 m, mounted on UPN 60 steel post, length 1.00 m

Post spacing : 2.50 m - Height of rail above the ground : 0.94 m

Ref. : LAV-14U60

- Round beam, ø 16 cm, length 4.00 m
- C100 galvanised post, length 1.50 m with a wooden spacer, length 0.75 m

Post spacing : 4.00 m - Height of rail above the ground : 0.96 m

Ref. : LAV-16C100

Option: Wooden cladding for C100 with antivandalism fastening

Louvigny railing

- Square planed beam 150 x 50 mm, length 3.00 m, 2 round edges
- C100 steel post, length 2.00 m with a wooden spacer, ø 18 cm, length 1.30 m

Post spacing : 3.00 m

Option: Wooden cladding for C100

Ref. 1 rail - height of the rail above ground 0.75 m : LOU-1C100

Ref. 2 rails - height of the rail above ground 1.10 m : LOU-2C100

Ref. 3 rails - height of the rail above ground 1.30 m : LOU-3C100

Aquitaine railing

- Round beam, ø 8 cm, length 2.00 m, fitting pre-drilled post holes
- Oblong post 0.14 m x 0.14 m, planed, round edges (if needed, sealed into concrete)

Post spacing : 2 m

Height of rail above the ground : 1 m to 1.10 m

Ref. Aquitaine 1 rail : AQU-H-1U60

Ref. Aquitaine 2 rails : AQU-H-2U60

Ref. Aquitaine 3 rails : AQU-H-3U60

Ref. Aquitaine 1 rail (height above grd : 0.50 m) : AQU-B-1U60

Pays d'Auge railing

- Round beam, ø 8 cm, length 2.00 m
- Square post 120 mm x 120 mm, length 1.60 m, planed, round edges, chamfered, mounted on UPN 60 steel post

Post spacing : 2.00 m

Option: Steel base

Ref. 1 rail - Height above ground of the barrel 0.50 m to 0.60 m : AUG-B-1U60

Ref. 1 rail - height above ground 1.00 to 1.10 m : AUG-H-1U60

Ref. 2 rails - height above ground 1.00 to 1.10 m : AUG-H-2U60

Pedestrian fencing

- Planed post 120 mm x 120 mm, length 1.60 m, round edges
- Barrel panel : length 2.00 m, height 0.93 m including 10 planed barrels 80 mm x 30 mm, round edges
- Joint-cover barrel : secured with 5×50 screws

Post spacing : 2.00 m

Ground clearance : 0.10 m

Height above ground of the barrel & post : 1.03 m

Option: Handrail

Ref. : RAM

Swinging gate ⌀ 28

- Post : Round log, ø 28 cm, length 1.23 m, galvanised steel cap
- Main bar : log ø 14 cm
- Cross brace : round log ø 10 cm
- Sleeve with steel base

Height above ground of the bar : 1.10 m

Passage up to 3.50 m

Option: reception post with sleeve or reception post to seal

Ref. : BAR-P28

Mixed swinging gate

- Hinged swinging rail : ø 12 cm assembled with sleeves
- Round post pivot : ø 16 cm, length 1.80 m
- 2 reception posts : ø 14 cm, length 1.66 m

Height above ground of the rail : 1.00 m

Passage widths : 3.00 m, 3.50 m, 4.00 m

Options: Powder coating of the galvanised steel elements, locking system.

Ref. : BAR-PM

T100 swinging gate on steel base

- Galvanised steel post on steel base, wooden cladding
- Swinging steel rail, wooden cladding
- Wood and steel reception post - closed position
- Locking system

Height above ground of the rail : 1.03 m

Passage widths : 2.00 m, 2.50 m, 3.00 m, 4.00 m

Options: Powder coating of the galvanised steel elements

Ref. : BAR-PT100

Sliding safety barrier

- Round log : ø 18 cm, length 4.00 m with embeded steel U section (guardrail component)
- Posts : 6 C100 posts, length 2.00 m, 6 wooden spacer ø 18 cm, length 0.85 m et 6 wooden covers
- Locking system included

Height above ground of the rail : 0.73 m

Passage width : 3.40 m

Ref. :BAR-CSECU

Standard sliding barrier

- Round beam : ø 12 cm slided into the spacer bars
- Posts : ø 14 cm, length 2.00 m
- Spacer bars : round logs, ø 8 cm

Height above ground of the rail : 1.10 m

Passage width 5.00 m

Options: Reception post (open position) and locking system

Ref. : BAR-CSTD

Height restriction barrier

- Two steel backed timber posts Ø18cm to be sealed
- 2 horizontal sets : logs Ø 14 cm, cross braced
- Central opening

Maximum height : 2.50 m

Maximum passage width : 5.00 m

Total width = passage width + 0.83 m

Option: locking system

Ref. : GAB

Permanent or removable boundaries

Boundary ⌀ 14

- Round log : Ø 14 cm, length 1.50 m, chamfered
- Reflective strip red, green or white (upon request)

Height above ground : 1.10 m

Option : padlock

Ref. permanent : BOR-14

Ref. removable with sleeve to seal : BOR-14AM

Boundary ⌀ 28

- Round log : Ø 28 cm, length 1.40 m
- Galvanised cap and binding

Height above ground : 0.95 m

Option : padlock

Ref. permanent : BOR-28

Ref. removable (Steel base : female part to seal, male part fixed on the boundary) : BOR-28AM

Safety 75 or 110 boundary

- C100 post, length 1.50 m or 2.00 m
- Wooden spacer Ø 18 cm, length 0.75 m or 1.10 m
- Rear wooden cover

Height above ground 0.75 m or 1.10 m

Ref. Safety 75 boundary : BOR-S75

Ref. Safety 110 boundary : BOR-S110

(C100 post and wood estimated separately)

Car wheel-stopper

- 1/2 log Ø 20 cm, length 1.00 m
- Stainless steel studs

Ref. : STP-DR20

All products for « installing » are available with 2 options :
- « wood & steel driven post » or
- « surface mounted post » for all types of soil.

Even after being treated, wood remains a living material subject to variations in temperature and humidity. Cracks may appear which is a natural phenomenon not affecting the quality of the product.

Removable lane spacers

Tertu 28-28

- 2 round logs : Ø 28 cm, length 3.00 m
- Steel galvanised footing

Width : 0.54 m, Height : 0.61 m

Ref. : SEP 2828

Tertu 28-28 with handrail

- Base : 2 round logs : Ø 28 cm, length 3.00 m
- Handrail : round log Ø 16 cm, length 3.00 m mounted on stainless steel tube
- Snowplough protection : 2 round logs Ø 14 cm, length 3.00 m
- Steel galvanised footing

Width : 0.54 m, Height : 0.75 m

Ref. : SEP-2828r

Tertu 28-16

- Base : round log Ø 28 cm, length 3.00 m
- 3 vertical round logs Ø 10 cm, length 0.55 m
- Handrail : roundl log Ø 16 cm, length 2.90 m
- Snowplough protection : 2 round logs Ø 14 cm, length 3.00 m
- Steel galvanised footing

Width 0.54 m, height 0.75 m

Ref. : SEP-2816

Tertu croisillon

- Base : round log Ø 28 cm, length 3.00 m
- Rectangular cross-braces
- Handrail : round log Ø 16 cm
- Snowplough protection : 2 round logs Ø 14 cm, length 3.00 m
- Steel galvanised footing

Width 0.54 m, Height 0.75 m

Ref. : SEP-crois

Pressure-treated wood with chromium and arsenic-free preservatives

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Acoustic screens **absorbing & reflecting**

PROTECTION

Acoustic screens

- **Traffic noise efficient mitigation**
- **Natural storage of CO_2**
- **Voluntary CE marking**

CE

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Acoustic screen absorbing

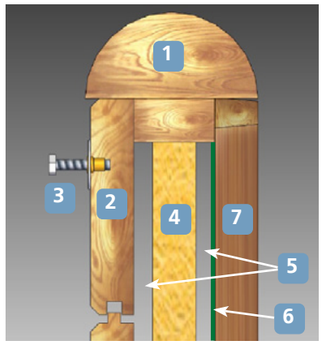
Technical information

Traffic side

Resident side

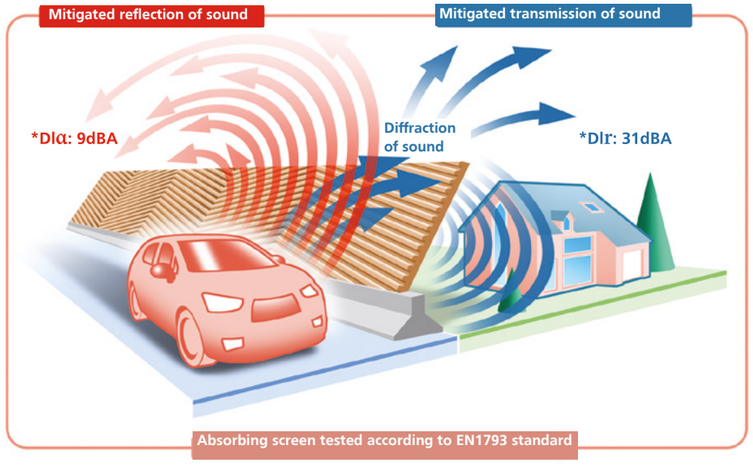
- Standard modules of 4.00 m in length for a height of 1.00 m.
- These modules are stacked to obtain heights of 2.00 m, 3.00 m and 4.00 m.
- The panels slide into HEA-type galvanised steel posts in order to reach the correct off ground height

- Panels covering :
- ***Traffic side*** : open latticework positionned alternately at 45° right /left
- ***Resident side*** : planed boards assembled vertically



1. Ridge piece : 1/2 round log ø 16 cm
2. Tongue and groove board 40 x 200 mm
3. Clamping screw
4. Rock wool panel (500 mm, density 70 kg/m)
5. Air gap: 15 mm
6. Plastic netting for protection against birds and rodents
7. Cladding: trapezoid lathes

Working



Acoustic screen reflecting

Technical information

Traffic side

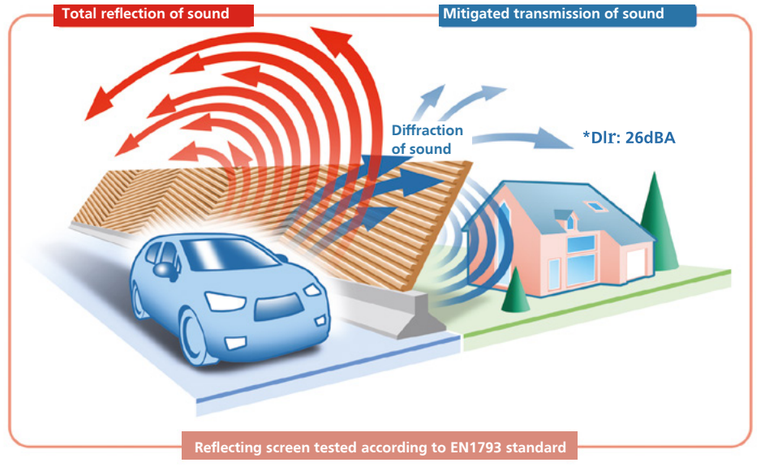
Resident side

- Standard modules of 4.00 m in length for a height of 1.00 m.
- These modules are stacked to obtain heights of 2.00 m, 3.00 m and 4.00 m.
- The panels slide into HEA-type galvanised steel posts in order to reach the correct off ground height

- Panels covering :
- ***Traffic side*** : ½ logs diameter 120 mm positioned alternately at 45° right / left.
- ***Resident side*** : planed boards assembled vertically

1. Ridge piece : 1/2 round log ø 16 cm
2. Tongue and groove board
3. Decoration: 1/2 round log ø 12 cm
4. Stiffener
5. Clamping screw

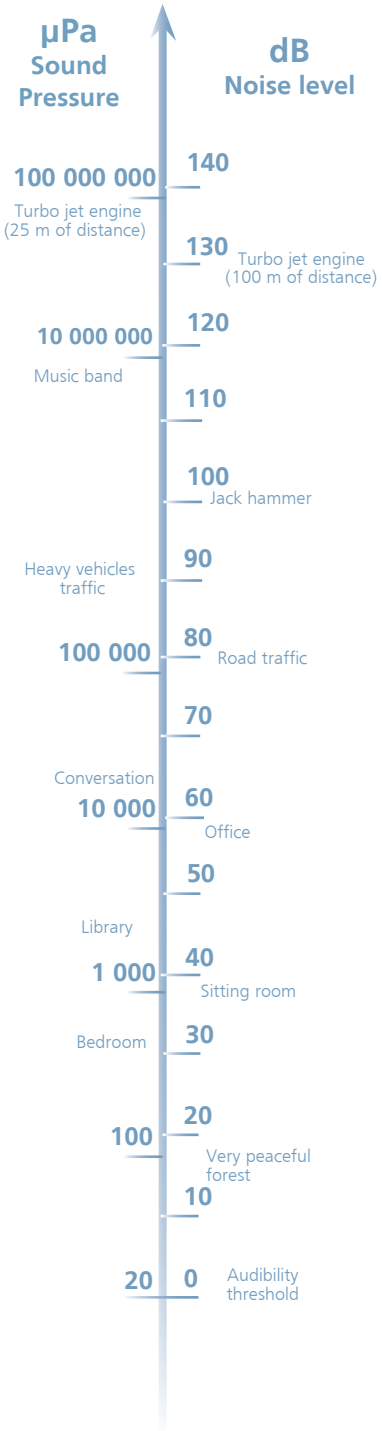
Working



Acoustic screen absorbing & reflecting

Standard EN-1793

All Tertu wooden screens have been tested according to standard EN 1793 by the European Laboratory for Acoustic Testing – CSTB, France.



Performances

Reflecting screen	Absorbing screen
Insulation against aerial noise DL_R DL_R = 26 dBA* (frequency 630 hz)	**Insulation against aerial noise DL_R** DL_R = 31 dBA* (frequency 500 hz)
Category DL_R in dB : B3 > 24	**Category DL_R in dB :** B3 <4
	Acoustic absorption DLα DLα = 9 dBA* Classification A3 (> 12)

**These results have been obtained in laboratory. They are intrinsic data relative to the acoustic panel only and do not provide its efficiency level that depends on the panel height, the distance from the noise, etc. The efficiency level of the acoustic panel on site has to be determined by an acoustic study which will specify the height and the lay-out of the panels for a required result.*

Pressure-treated wood with chromium and arsenic-free preservatives

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Decking & Stilts

- **Optimized adaptability according to sites configuration**
- **“Quick’n Easy” installation process**
- **Customized solutions**

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Footpath **Decking - Stilts**

Decking panels

- Pre-assembled panels
- Anti-skid 36 mm thick grooved boards
- Pressure treated Douglas fir or Heart of Douglas fir not treated
- Fastening with stainless steel screws on standard 75 mm thick beams
- Customized design according to span and geometry

Width : 2.00 m - Length : 4.00 m
Standard panel thickness : 111 mm

Decking stripes

- Anti-skid grooving design
- Pressure treated Douglas fir or Heart of Douglas fir not treated

145 mm*36 mm in 4.00 m - *Ref. : RAIN-36*
145 mm*45 mm in 4.00 m - *Ref. : RAIN-45*
145 mm*80 mm in 4.00 m - *Ref. : RAIN-80*

Stilts

One set every 2.00 m made of :

- Two posts 120*120 mm
- Anti-skid grooved planks to be placed on wooden beams with stainless steel screws every 0.50 m
- Delivered in kit to install on site
- Hardware provided

Width : 2.00 m

Grooving

Each decking planks include 8 anti-skid grooves.

They are installed with a minimum gap of 5 mm using screws (stainless steel recommended : pre-drilled holes required)

Douglas Fir, a BIG HEARTED specie

Information

- Origin : France
- Structural resistance & durability
- Provided natural or pressure-treated
- Recyclable even if treated

Treatment

- In autoclave, according to EN-335 standard
- With arsenic and chromium-free preservatives, environmentally compatible WOLMANIT CX 10 based on copper – HDO according to EN 599 standard
- The CX-10 is not classified as a carcinogen or mutagen substance.

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