



## Bridge Decking, Timbers, Guard Rail Components and Fabrication

Designers, Manufacturers and their customers have long recognized the beauty, life cycle performance and environmental benefits associated with Naturally Durable Hardwoods for Bridge Constructions.



### Time Tested

The steam anchor and ipe stock, dated 1618 and shown above, was salvaged from the 'Treasure Ship Margarita' off the Florida Coast after 140 years of marine borer exposure.



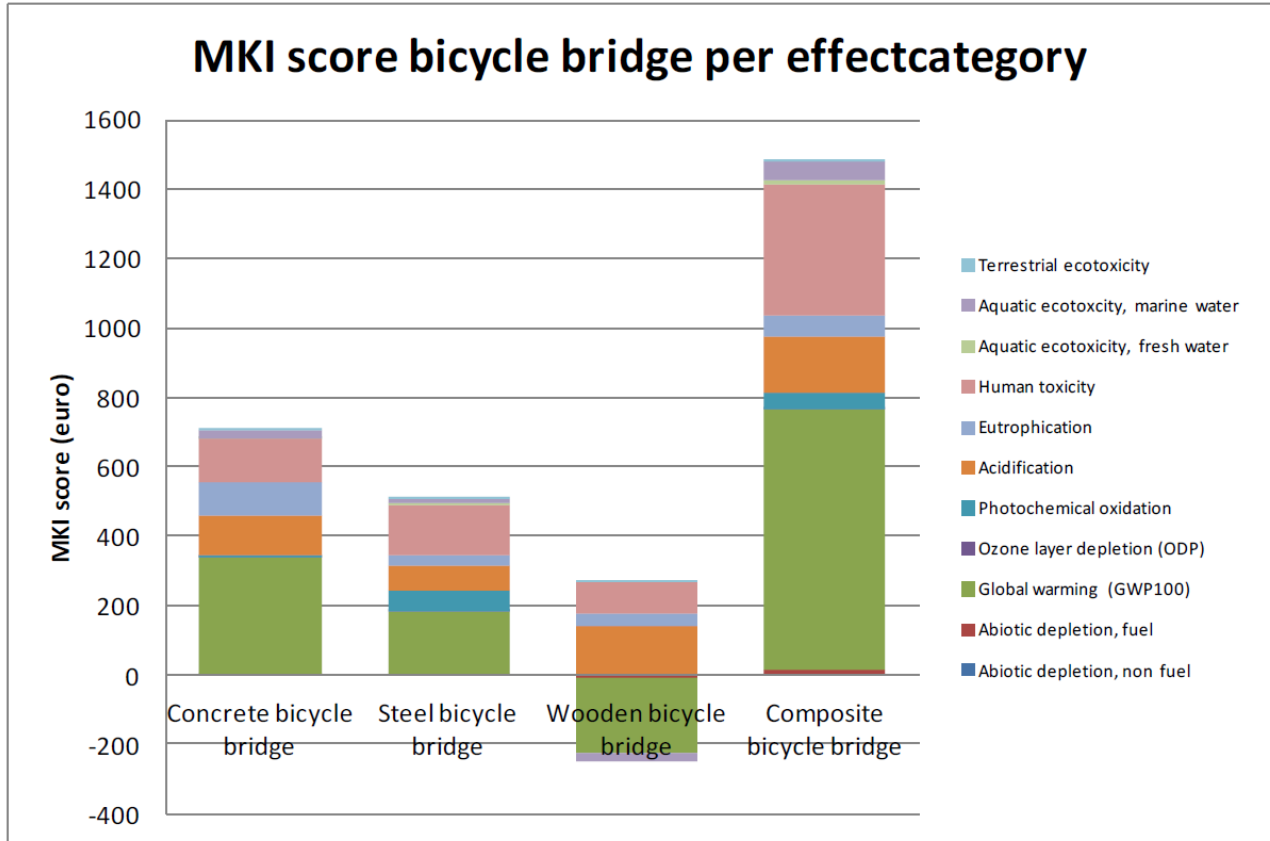
6200 Tomken Road, Mississauga  
L5T 1X7, ON, CA  
Phone: (905) 672-8000  
[www.wearetropical.com](http://www.wearetropical.com)





## Wood Vs Non-Wood?

Timber bridges demonstrate the lowest MKI (environmental cost indicator) of all bridge construction types. But don't take our word for it. The Dutch Government conducted a comprehensive study in 2014 to evaluate the environmental impact of various building materials. Here are the results of that study.



Also in 2014 post Hurricane Sandy the Army Corps of Engineers issued a memo addressing the life cycle financial costs of naturally durable tropical hardwoods verses various alternatives building materials for boardwalk reconstruction.

*SUBJECT: Impracticality of non IPE lumber for Boardwalk Decking*

*1. The purpose of this memo is to provide clear evidence and justification for the necessity of specifying IPE/Bethabara/Cumaru/Macaranduba tropical hardwood lumber species for Boardwalk decking.*

**Complete documents are available upon request.**



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## Available Species and Dimensions

### Type – Black Label™ Ipe

**Durability Class-** 1(Highly Durable)

**Fire Rating** – Class A

**Resistance Termites** – (High)

**Resistance Marine Borers** – (High)

**Grade** – Clear All Heart

**Condition** – AD

**Surface** – Yard Rough, Bright Sawn or Surfaced

**Dimensions Timbers/Decking** - Max 4"x12" Rough, 3.5"x11.25" Surfaced

**Dimensions Posts** – Max 6x6 Rough, 5.5"x5.5" Surfaced

**Lengths** – Max 20'

**Availability** – Stock and Special Order

**Environmental Compliance Options** – Legal Lumber™ “Due Care” and “FSC”  
Compliance options Available.

### Type – Black Label™ Cumaru

**Durability Class-** 1(Highly Durable)

**Fire Rating** – Class A

**Resistance Termites** – (Medium)

**Resistance Marine Borers** – (Medium)

**Grade** – Clear All Heart

**Condition** – AD

**Surface** – Yard Rough, Bright Sawn or Surfaced

**Dimensions Timbers/Decking** - Max 12"x12" Rough 11.25"x11.25", Surfaced

**Lengths** – Max 20'

**Availability** – Special Order 90-120 days

**Environmental Compliance Options** – Legal Lumber™ “Due Care” and “FSC”  
Compliance options Available.

### Type – Black Label™ Ekki/Azobe

**Durability Class-** 1(Highly Durable)

**Fire Rating** – Class A

**Resistance Termites** – (High)

**Resistance Marine Borers** – (High)

**Grade** – Clear All Heart

**Condition** – AD

**Surface** – Yard Rough, Bright Sawn or Surfaced

**Dimensions Timbers/Decking** - Max 16"x16" Rough, 15.25"x15.25" Surfaced

**Lengths** – Max 52'

**Availability** – Special Order 90-120 days

**Environmental Compliance Options** – Legal Lumber™ “Due Care” and “FSC”  
Compliance options Available.

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**Type – Black Label™ Angelim**

**Durability Class- 1 (Highly Durable)**

**Fire Rating – Class A**

**Resistance Termites – (High)**

**Resistance Marine Borers – (Medium)**

**Grade – Clear All Heart**

**Condition – AD**

**Surface – Yard Rough, Bright Sawn or Surfaced**

**Dimensions Timbers/Decking - Max 8"x12" Rough, 7.25"x11.25" Surfaced**

**Lengths – Max 22'**

**Availability – Special Order 90-120 days**

**Environmental Compliance Options – Legal Lumber™ “Due Care” and “FSC”**

**Compliance options Available.**



**More than just a bridge...A Landmark**

From raw materials, to prefabricated components, to dowel laminated girders, to complete bridge fabrications the design options are limitless.

TROPICAL FOREST PRODUCTS™, BLACK LABEL™ and LEGAL LUMBER™ brands represent the highest...quality control, technical, and environmental compliance standards in the naturally durable hardwood industry.

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**Allowable Design Values, Design Assistance, Master Specification Language, Certificates of Compliance available upon request.**

**For more information visit us at - [wearetropical.com](http://wearetropical.com)**



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