

# Japanese Wood Beyond the World



## Common types of wood

### # Tosa Cypress (TOSA HINOKI)

Kochi prefecture in Shikoku region has been a famous cypress production area since ancient times. Kochi has been called "Tosa" in ancient times, so the timber produced here is variously known as Tosa cypress, Hata cypress, and Shimanto cypress.

Characterized by a vivid red core and strong scent, Tosa cypress, which is renowned for its durability, contains large amounts of oil that increase the gloss of the wood surface as time passes. The characteristics of Kochi-produced cypress are evaluated highly.



### # Tosa Cedar (TOSA SUGI)

The production areas for the various types of Japanese cedar are found throughout Kochi Prefecture, including the nationally famous Yanase cedar and the beautiful Reihoku cedar, which features a pale pink core. Because the wood of these trees is straight and well colored, cedar is mainly used as construction materials. The wood is characterized by the beautiful appearance of both the cross grain and straight grain surfaces.



## Growing area for Cypress and Cedar

### # KOCHI in SHIKOKU region

Kochi is a prefecture of forests, especially with steep mountains and having Japan's highest proportion of forested land with 84% of the area covered in forests. Kochi is known throughout Japan as the birthplace of pristine rivers, such as the Shimanto River, Niyodo River, and Yoshino River, whose crystal-clear, pure waters have been nurtured by the region's abundant forests and the hot, humid climate. Renowned nationwide since the Muromachi period (1338-1573), the excellent quality Japanese cedar and cypress trees grown in these abundant forests have been widely used in the construction of houses, Buddhist temples and Shinto shrine buildings.



## Uses of wood

### # Public Building



Osaka Castle (Osaka-jyo)



Kochi Station



Tosa government office

Historical buildings such as Osaka Castle (Osaka-jyo) and Kiyomizu Temple (Kiyomizu-dera) have been used a large amount of timber sent from Tosa to construct since ancient times.

Even today, it is actively used for the public building construction such as the station, government offices, and shopping areas. There are many benefits by using wood for public buildings, such as psychological benefits like making people relax, stress-reducing by scent of wood, also it can save air conditioning costs because using wood can keep inside of building cool in summer and warm in winter.

### # Products



Kumiko Endurance Wall



Various Products

The endurance wall, using the joining method without metals named KUMIKO has been represented one of Tosa architecture. It is a craftsmanship that expresses the beauty and strength of Japanese architecture and makes the wall stronger at the same time. Also, benefits using cypress and cedar for furniture and toys has been well known because it is good for growing up kids and safety. Japanese Cypress and Cedar has been used a lot of products as the basic of Japanese living culture.

## Trade performance



## Exportable products

# Cypress Log



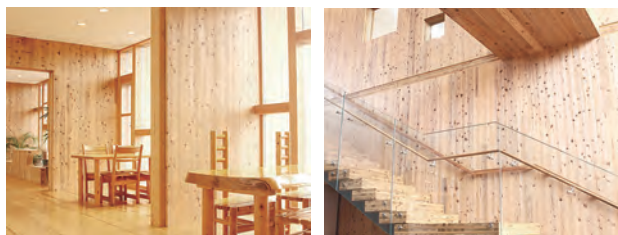
# Cedar Log



# Lumber



## Architecture example



Flooring

Walling

The mainstream of private residences in Japan is wooden buildings. Wood is a natural material with excellent heat insulation and hygroscopicity, it has been used for a long time for structural materials such as columns and beams. It has been used not only as structural material, but also for floor, wall and ceiling since a very long time ago. Japanese traditional home has consisted of natural materials such as cypress and cedar, including tatami mats and shoji screens. It can give healing and comfortable atmosphere for people living there.



Nahari Office, Maruwa Forest Co.,Ltd.

*\* One of our office was built by CLT method, and it has achieved Japan wood design award 2020.*

The number of building which was built by CLT method in Kochi is the largest number in Japan. Recently, wooden buildings using CLT panels have applied to high buildings. Compared to the Laminated wood, CLT is stronger and its strength is similar with concrete-structure(RC), because CLT is crimped in multiple layers with three to nine layers alternately in the fiber direction, it can make it difficult to deform and gathering attention.

### # CLT = Cross Laminated Timber

*It is a prefabricated panel of wooden boards glued together perpendicularly to one another, with structural adhesives.*



## Contact information



## Maruwa Forest Products Co.,Ltd. (Maruwa Forest Group)

Address: 3-303, Chiyori-cho, Kochi-city, Kochi JAPAN 781-0806

TEL: 81-(0)88-884-1686

Email : [toiawase@maruwa-forest.co.jp](mailto:toiawase@maruwa-forest.co.jp)