



Comparison Table and Financial Advantages

	Perma-Thatch™	Natural Thatch
WARRANTY	20-year warranty	Almost non-existent
LIFE EXPECTANCY	Weather conditions do not affect our synthetic leaves, they will last over 50 years	Depending on climatic conditions and insect damages, natural thatch life-span varies between 3 to 6 years at the most
QUALITY	Perma-Thatch™ polyethylene is the same plastic used to fabricate paddle boats, kayaks, slides, etc. It is the most resistant plastic with flexibility and softness.	Can easily be damaged by the weather, insects, moss and as it is natural, is prone to rotting
MAINTENANCE	Totally maintenance free. No cleaning, no repair, no replacement. No extra labor cost.	Regular cost-intensive maintenance required.
WIND RESISTANCE	Passed PA 100-95 wind driven rain test (110 mph – 170km/h winds). Clips are provided for extra protection.	Not tested or approved to any standard. May be dangerous and repairing is costly.
WATERPROOF	Perma-Thatch™ leaf volume is equivalent to 5.7 square meter of material for one square meter of coverage. This ration ensures not only stabilityh but also protection against tropical rainstorms and other forms of humidity.	Not 100% waterproof. Humidity has a negative impact on natural leaves.
FIRE-RETARDANT	Perma-Thatch™ offers a fire-retardant version: Hawaii Passed ASTM E-108 test spread of flame Class C fire rating. However, our regular model is still much more secure than natural thatch as the degree of flammability is much lower.	Highly flammable
COLOR	An antioxidant and UV protection have been added to our leaves and tested Bodycot Canada Norms.	Natural material will fade to gray, brown and black.



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INFESTATION	This material does not attract insects, rodents nor birds	Susceptible to infestation of vermin, insects and birds. Damaged repairing and preventive measures are costly.
COMFORT	Temperatures reported under our roofs are around 4 to 6 degrees lower than under natural roofing. This is due to the volume of leaves, their thickness and our protective air pockets.	Not as cool as under our roofs.
ADDED VALUE	The 20-year warranty can be a strong advantage in attracting investors around the world and it certainly add undeniable value to your property.	No added values.
INSURANCE SAVINGS	Safer, our leaves are very advantageous in avoiding insurance surcharges.	Surcharges can be very high or insurance can even be refused.
ACCESSORIES	Our accessory range is made to respect traditions and fit easily to various tropical roofing styles and techniques.	No accessories
ENVIRONMENT	Recyclable material. Environment friendly. Respect of nature.	With the ecological movement sweeping the world, some countries have altogether forbidden gathering natural leaves.
TRANSPORTATION	20 ft 14 400 to 17 860 pieces	20 ft 1 300 pieces
Quantity of leaves in containers	40 ft 28 800 to 36 000 pieces	40 ft 2 600 pieces
	40 high cube 33 840 to 41 760 pieces	40 high cube 3 000 pieces
INSTALLATION	<ul style="list-style-type: none"> - Solid material, no risk of breaking - No special skills required, installation instructions and/or a full training provided by Palmex - Easy and fast set-up - Minimum space for storage 	<ul style="list-style-type: none"> - Very fragile material, high risk of breaking or cracking - Long and difficult installation procedures that often requires the service of a professional. - High labour cost - Large storage space required



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We would like to present the financial incentive associated with using our roof coverings, to simply reinforce the return on investment. Only *Perma-Thatch™* can provide exceptionally long lasting construction material for building development projects. Comparing our products to natural leaves brings forth numerous advantages worth noting.....

DAILY UPKEEP

With natural roofing material, often hotel cleaning staff has to sweep up the rooms after a light breeze because of dirt and insects falling from the ceiling. These frequent interventions represent costly expenses which could be avoided.

No cleaning is required with our synthetic roofs, no insect infestation.

NEVER-ENDING REPAIRS

Due to the diminishing quality of natural leaves available on the market, repairs can be endless. Q: to mention the frequent rips and leaks often noted with natural roofing materials.

No maintenance required on our *Perma-Thatch™* leaves.

PERPETUAL REPLACEMENT

Apart from daily upkeep, there is also the question of periodical replacement of roofing when using natural leaf covering. This task now occurring on an ever-increasing basis often represents an unexpected or unbudgeted expense that has been known to contribute to hotel closures. Life-spans have systematically decreased from 8 years, on average, to only two or three years at best in the present day. **The *Perma-Thatch™* 20 year warranty offers a secure solution to amortization issues.**

QUALITY MATERIAL

The *Perma-Thatch™* polymer does not only guarantee, but often surpasses both the 20 year warranty and client expectations. This exceptional quality material is able to withstand impact and weather the toughest of climates. Easy to store, easy to use and recyclable – what more can you ask for?

ENVIRONMENTAL CONCERNS

In addition to the financial arguments, there is also an ecological movement sweeping the world – to a point where some countries, such as the Dominican Republic, Costa Rica, Mexico, Puerto Rico, Belize and Mauritius have altogether forbidden gathering natural leaves. Trees experience difficulty regenerating after being stripped of their leaves and no longer produce sufficient quantities. These leaves that survive, affected by excessive humidity, no longer provide the same level of durability as in years gone by.

FIRE RETARDANT: A QUESTION OF SAFETY

Natural leaves are known to cause fires. Hence, national regulations are becoming stricter and more drastic. Some countries have simply forbidden any gathering of natural leaves to avoid incessant fire damage. **Tiki's By Design, Inc.** offers fire-retardant leaves with US Class C approval ratings and European M3-CSTB level approval. This sophisticated technical point comes along with numerous other advantages related to insurance and civil liability.

NASTY CHEMICAL TREATMENTS

Insecticide treatments used on natural leaves pose direct risks to people occupying the buildings. **Tiki's By Design, Inc.** offers an excellent alternative with roof covering that is incredibly hygienic and does not attract varieties of insects.

INSTALLATION

Perma-Thatch™ installation is fast and can be adapted to all kinds of roofing structures, no matter the angles and surfaces to be covered. This flexibility can provide serious cost savings in using our products.



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ADDED VALUE

The warranty *Perma-Thatch*™ provides (on roofs installed following builder instructions) can be a strong advantage in attracting investors around the world. The guaranteed durability, practical advantages and financial incentives of *Perma-Thatch*™ leaves certainly add undeniable value to your property.

FIRE SAFETY – INDIRECT SAVINGS

Perma-Thatch™ clips provide extra protection against strong winds of up to 150 miles/hour (accredited wind protection levels) that will hold up in tropical winds such as those recently experienced around the globe. Aside from offering better storm protection, this technical aspect most certainly contributes to the chances of surpassing the 20 year warranty.

COOL AND REFRESHING

Temperatures reported under our roofs are around 4 to 6 degrees below than under natural roofing. This point can be explained due to the sheer volume of leaves used, leaf thickness and our protective air pockets created due to our fastening system.

WATER-TIGHT

Perma-Thatch™ leaf volume is equivalent to 5.7 square meters of material for one square meter of coverage. This ration ensures not only stability, but also protection against tropical rainstorms and other forms of humidity that have a negative impact on natural leaves.

SUN PROTECTION

An antioxidant and UV protection have been added to our leaves, tried and tested over the years in accordance with the norms. This precaution makes our roofs as fade-resistant as possible. (Bodycot Canada Norms).

APPLICATIONS

Our leaves can be installed over all kinds of roofingframes, either directly on the roof timbers, over finished panels or directly over existing roofs.

Whether used for decorative purposed or as the main structure, *Perma-Thatch*™ suits all functions and budgets.

ACCESSORIES

The *Perma-Thatch*™ range of accessories is made to respect traditions and adapteasily to various tropical roofing styles and techniques. From ridges to hips - *Perma-Thatch*™ has every kind of tropical roofing covered.

TRADITIONS

Perma-Thatch™ products are made to respect and uphold traditions in the aim of being aesthetically pleasing to all tropical countries.

Our web-site, www.tikisbydesign.com will allow you to view in detail our various products along with several international projects for a better overall vision of such quality roofing.