



Aviation
Specifications
Guide



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Introduction

The House of Tai Ping is an international custom handmade carpet manufacturer regarded for design, superior quality and unparalleled concierge service. Recognized as the designer and manufacturer of choice for a discerning clientele, Tai Ping Carpets grace the floors of prestigious residences, boutiques, hotels, private jets and yachts around the world. Today Tai Ping is an international company with offices and representatives spanning four continents.

Tai Ping was founded in 1956 in Hong Kong to provide employment for new arrivals from Mainland China and to create a handmade product for the post-war US market. It's storied past has created a legacy for enchanting carpet installations throughout the world. In 2005 Tai Ping purchased the renowned American brand, Edward Fields Carpet Makers. The acquisition was a natural fit as each specializes in custom design and innovation, matched by the long-standing tradition of fine craftsmanship, research and development.

In 2016, a state of the art factory was completed in Xiamen to keep up with demand while the global headquarters remain in Hong Kong as the company is listed on the Hong Kong Stock Exchange. The factory is wholly owned, making it a vertically-integrated enterprise and an exception in the industry.

All aspects of carpet production in the factory are overseen by Tai Ping staff and do not rely on third party contributions. The factory has its own customer service personnel, a design studio and an in-house pre-testing laboratory to quality-control every step of the way. Every carpet is made to the specifications of the client, from inception to installation. The company's most valuable assets are the artisans and technicians whose training includes years of guidance as an apprentice with a senior Tai Ping craftsman. The result is exceptional floor covering made with superior materials and color fidelity.

In the specialized world of Aviation, Tai Ping offers comprehensive concierge service, overseeing the process from design and sampling, through manufacturing, installation and lifetime maintenance. Tai Ping's representatives partner with the specifying Interior Designer to select the best construction, color, fiber, and design for the project. Tai Ping's focused aviation sales force is knowledgeable with decades of experience. They have an understanding of various airplane floor plans, airworthiness tests, and are skilled in managing critical schedules and proper specifications to support an airplane's intended use.

Please see www.taipingaviation.com for the latest in our aviation offerings.

Our Factory





Sustainability and Responsibility Statement

Tai Ping is dedicated to offering high-quality custom-designed carpets to its customers and aims to merge value creation with long-term sustainable development in order to contribute to environmental sustainability and workforce development.

Tai Ping has a specific environmental health and safety department responsible for auditing policies and procedures. This defines our environmental management system and governs the monitoring activities. The company is certified to internationally recognised standards such as ISO 14001 and OHSAS 18001.

Clear goals and instructions are established to ensure departments work hand-in-hand and drive environmental protection initiatives such as energy efficiency, emission reduction, wastewater management, and responsible stewardship of local resources.

Energy Efficiency and Emission Reduction

Tai Ping spares no effort in operating its business in an environmentally responsible manner through minimising greenhouse gas emissions and its environmental footprint. In 2016 Tai Ping commenced construction on a world class, state of the art factory in Xiamen, China. The new facility was fully completed and opened to great reception in 2018 and energy efficiency was integral in its concept and design.

The workshops at the factory were designed in a circular manner, surrounding a central garden. This circular design maximizes efficiency and workflow, as well as increasing ventilation in workshops and allowing the modern glass facades to optimise natural light during the daytime. Relying on natural light reduces energy consumption and minimises the environmental impact. Natural light from the roof and energy-efficient LED lighting systems are implemented. The building elevation is also protected by sunshades to save energy.

Due to the factory design and temperate climate in Xiamen, heating ventilation and air conditioning are not required in all spaces of the facility. HVAC is limited to critical processes like dyestuff storage, dyeing and in the control room. All other work areas feature a high roof exhaust fan grid for forced circulation. Use of evaporative cooling systems combined with general ventilation reduces equipment duplication and energy consumption.

Waste-water Management

Tai Ping strives to ensure all water utilised in the production processes is used as effectively and efficiently as possible to minimise impact to the environment. In support of this, Tai Ping employed an environmental consultant in the development of a state-of-the-art wastewater solution which resulted in our very own modern water treatment plant on-site at the factory.

It is a fully integrated processing facility using filtration, ultra-filtration, flocculation, biological (microbe) treatment and reverse osmosis. This enables up to 100% of the daily water used to be resulted having been cleaned to a degree that is very nearly fit for human consumption. The water is reused in the facility bathrooms, to support cooling of the building and for irrigation of the garden and factory grounds. This process is resulting in zero polluted discharges in Xiamen and yielding environmental discharge standard 5 times better than local guidelines. To further identify opportunities for the efficient consumption of water, Tai Ping tracks its use across the facilities to understand and monitor consumption patterns as it relates to soaking, dyeing, cleaning and daily use.

Local Resources

To support the domestic economy and environmental protection, Tai Ping also prioritises the use of materials or products that are manufactured in Xiamen or nearby cities, therefore reducing environmental impact from transportation. Tai Ping recognises that the business can only advance and flourish if the business maintains a harmonious relationship with the community. The factory also looks to maximize its employment of local residents in an effort to boost the regional economy. Employees are then encouraged to participate in local charity activities and create greater value for the society.

Product Responsibility

Tai Ping has a quality management system in place which is certified to ISO 9001 standard and this covers mainstream production and equipment - including high-tech dyeing machinery. It also incorporates critical support processes such as procurement and advanced raw material and product testing.

An extensive monitoring system, spanning across procurement of materials to delivery of products, has been developed to safeguard product health and safety. Furthermore, the limited number of process chemicals are handled with care and in compliance with internal and external standards, to ensure that the products produced will not contain nor will be contaminated by any harmful materials.

Tai Ping works to prevent any pollution and damages to the environment. The Xiamen factory adheres to green manufacturing policies as we monitor and minimise greenhouse gas emissions in the manufacturing processes and endeavour to reduce waste and noise production on an ongoing basis.



Specification Guidance

Selecting the proper specifications will enhance the carpet's performance. To ensure satisfaction with the carpet, consider three components: Construction, Color and Content.

Construction

Both loop pile and cut pile constructions work well for heavy traffic. However, cut pile will show footsteps and traffic patterns more easily. Please refer to our recommendations below.

For Heavy Traffic please consider:

- Wool loop pile
- Wool cut pile
- Wool loop or cut pile with small amounts of silk cut pile accents
- Wool loop or cut pile blended with silk
- 75/25 Wool/Silk blended fiber cut pile
- 75/25 Wool/Silk blended wool loop pile

For Medium Traffic please consider:

- 50/50 Wool / Silk blended fiber cut pile
- 50/50 Wool / Silk blended fiber loop pile

For Light Traffic please consider:

- Silk cut pile
- Silk loop pile

Color

For color selection, mid and dark toned colors that blend with the general shade of local soil are best to use in high traffic areas, especially near entrances. Lighter colors will show soil and will require more maintenance. Light colored carpets, especially in silk, will be more difficult to maintain and clean.

Content

Wool and silk are the preferred fiber for aircraft use as they easily pass FAA regulations. Wool fiber will wear better than silk. While both are protein fibers, they are inherently different and must be considered as such.

Wool Properties

Wool is a staple fiber that has a naturally scaly surface which makes it soil resistant. Wool also contains Lanolin, a naturally occurring wax that helps to prevent the penetration of water-based liquids. While no carpet is soil proof, if wool is exposed to dirt, the particulate will remain high in the pile, making it easily removable through vacuuming. Wool has a natural elasticity which makes it incredibly durable; resistant to crushing and it recovers quickly from normal foot traffic and furniture imprints. Wool has natural flame-retardant characteristics and is self-extinguishing. If burn marks appear, they can be easily brushed out unlike man-made fibers.

Silk Properties

Silk is spun from continuous filaments; they are long and strong but thinner than wool and require a different maintenance protocol. Silk also has the same self-extinguishing characteristics as wool. Silk is often specified alongside wool for decorative reasons and can be effectively maintained at the same time. However for heavy traffic and commercial use, it is advised against using large amounts of silk especially in aisles or pathways.

In summation, for the most durable carpet, Tai Ping recommends a wool loop pile in a mid-toned color.





Proper Expectations

Considering the nature of custom-dyed, hand-made carpeting, there will always be variances and natural occurrences. These are expected and inherent to the product and often these variances are revered as it sets the carpet apart from machine made products. Tai Ping subscribes to the Carpet and Rug Institute's technical bulletin encompassing all natural occurrences. It can be found on their website www.CRI.org under the General Characteristics page.

When dealing with hand-made and combination quality carpeting, it is important to acknowledge the product is a textile, an organic soft good that will breathe and respond to its environment. Humidity can affect various aspects of the carpeting such as the color slightly shifting or the size may adjust. The degree to which this occurs is subtle but to the expert eye, it may be noticeable.

Design Placement

Tai Ping's ability to create a design unique to a floor plan is a design asset. However, tracing monuments with a design should be carefully considered as exactness cannot be guaranteed with a soft textile. An allowance should be considered to offer installers the ability to maneuver the carpet in place as the installation process can contribute to pulling or stretching.

Colour Matching

When developing custom colours for proposals, Tai Ping makes every effort to match them in the final production dyeing. The highest quality dyes are used and natural fibres are procured then state of the art equipment is used during the process. Each yarn dyeing process is a custom and unique event; and therefore, an exact match is not guaranteed. We will always pursue the best possible match so it is a best practice to provide a cutting or original sample for color matching efforts. Be mindful that raw wool and silk have a natural yellow cast to them, unlike the stark white present in man-made fibres. This makes them prone to yellowing and limiting the brightness achieved in lighter colors.

Common Post-Delivery Occurrences

Fluffing / Shedding

New carpets may fluff or shed short fibres. This is a natural occurrence of new wool and silk carpets. Expect to vacuum up to everyday for the first 6-12 months after installation particularly with cut pile carpets.

Sprouting

All carpets will have sprouting yarns during their life cycle. Occasionally tufts will dislodge from the latex backing of the carpet and silk is more likely to sprout than wool due to its slippery surface. These loose ends should simply be trimmed level with the surrounding surface pile with sharp scissors. Excessive sprouting is often caused by wheels of luggage carts, castors, inadequate or improper use of vacuums, or even a protective surface with an adhesive backing and is not necessarily due to a manufacturing defect.

Shading (Watermarking / Pooling / Pile Reversal)

After installation, carpet often appears to change colour in certain areas. This phenomenon does not involve a true colour change, but rather a difference in light reflection between various surface areas. Shading is not a manufacturing defect, but a normal phenomenon for any cut pile carpet made from any type of yarn.

Fading

Some fading may occur over time due to oxidation and sustained exposure to sunlight as yellow pigments in the natural materials fade to cream. This is not considered a defect and is common with natural textiles.

Fuzzing

Fuzzing is caused by heavy traffic such as wheels of luggage carpets, castors or inadequate or improper use of vacuums. Use of a vacuum with a beater bar or harsh brushes can also cause fuzzing on a wool loop pile and is not recommended. Professional carpet maintenance teams can remove fuzzing by using specialized surface shearing equipment.

Crushing

Crushing is when a pile, usually a cut pile but occasionally loop, is compressed. The cause can be from rolling during shipping, defined as “roll crush” by Carpet and Rug Institute. Crushing can also occur during installation or from heavy monuments resting atop the pile, or even from heavy traffic. The pile will lift over time if given an opportunity to open and rest to recover. A professional can be recruited to steam or brush the fibres; however, do not steam excessively or damage can occur from the high temperatures or over moisture. Please test an area first or work with a certified IICRC professional familiar with finer natural fibers for assistance.

Dye Bleed / Color Fastness

Over saturation of water or cleaning agents, especially at high temperatures, can cause pigment transfer. Using high temperatures on colors of strong contrast can lead to bleeding.



Carpet Care



Cleaning Silk

Tai Ping follows the guidelines established by the Institute of Inspection, Cleaning and Restoration Certification (IICRC). Best results can be guaranteed by using IICRC cleaning companies. There are many cleaning companies who are quite skilled at general cleaning, but they may not have extensive knowledge of handmade, silk carpets or one-of-a-kind custom carpets.

If your carpet has silk in it, please only seek a certified IICRC professional cleaner. Please have them test their cleaning agents and cleaning approach on a sample or in a non-conspicuous location on the carpet.

Most damage to carpets occurs due to improper cleaning methods, albeit with the best of intentions. Only a professional can properly assess the type of cleaning the carpet is to undergo as it relates to water temperature, pH levels, and various grooming tools. The type of carpet in conjunction with the type of soil or stain will dictate a cleaner's tactical approach. Trained professionals can make adjustments accordingly as to the method or cleaning agents used.

Topical Treatments

Tai Ping does not recommend or approve the application of topical fiber sealants or protectants on our wool or silk carpets. Many products on the market claim to reject or prevent soil and stains; however, there is no guarantee that the overall appearance and performance of the carpet will not be compromised. Applying topical agents to the carpets will void the warranty.

Cleaning Resources

Institution of Inspection, Cleaning & Restoration Certification (IICRC) www.iicrc.org

Carpet & Rug Institute (CRI) www.carpet-rug.org

Woolsafe www.wool-safe.org

MSDS Sheets of Cleaning Kits www.wool-snz.com

For technicians recommended by Tai Ping, please email our team at aviation@taipingcarpets.com

With proper care and cleaning approaches, the carpets should last for years and wear beautifully.



General Maintenance

The most effective way to decrease or prevent soiling of installed carpet is to mitigate soil from entering the aircraft. Entrance rugs made of wool limit soil entry and should be used at the base of the aircraft steps and, when possible, at the doorway at the inside of the aircraft or under areas where food preparation or food service may occur.

Expect to vacuum regularly as it is the most effective way to maintain the long-term appearance and performance of the carpet. Vacuuming daily, perhaps even twice per day during the first year of the life of the carpet, will release fibers hidden in the carpet pile. Loose fibers will dislodge after installation and during the first few months of use.

Vacuum in a slow and methodical way to achieve the best results. A carpet that is visibly dirty is already past the interim stage of maintenance and will require deep cleaning.

We suggest a vacuum that is lightweight with soft or no bristles. Not all constructions can tolerate a beater bar or hard bristles. This can cause extreme fuzzing or pulls on loops and silks and in some cases cause permanent damage. Check nozzles and attachments for cracks that might snag the pile as well.

Tai Ping has conducted rigorous testing and found that the ProTeam Vacuum and the Oreck Magnesium vacuum are excellent choices for our carpets. They are both certified by the Carpet & Rug Institute's Seal of Approval program which uses testing methods developed in concert with NASA technology to evaluate their performance and rank the equipment accordingly. We advise against a vacuum that uses cyclonic technology as its suction is too strong for the fibers in a hand-made carpet.

Spot Cleaning

Accidents happen and spills must be addressed immediately. If a spill occurs, remove as much of the spill suspended on the carpet surface as possible without rubbing, then blot with a clean color safe cloth until no liquid transfer is observed. Then contact an IICRC certified cleaner and do not experiment with various store-bought kits. Be sure the technician tests cleaning agents in an inconspicuous area of the carpet or request a sample of your carpet specification to test first.

If your carpet is all wool, a wool spot cleaning kit can be purchased from CRI. This kit is intended for all wool carpets. For carpets with silk, please seek an IICRC certified professional cleaner. Be sure to test the carpet in an inconspicuous area or request a sample of your carpet specification. Do not use store bought kits as they are primarily for synthetic fibres.

Deep Cleaning

The IICRC certified cleaner should be sought for heavier maintenance. Common approaches such as hot water extraction should be avoided as wool will shrink with hot temperatures. Over-soaking the carpet can also cause permanent damage to the fibers and dyes.

Disinfection Instruction

The aim of this guide is to explain the best practices for cleaning and disinfection of carpeting currently adopted by a number of recognised and IICRC approved cleaning companies worldwide. It is provided in good faith and follows advice provided by the Centers for Disease Control and Prevention and cites additional methods that have been researched and peer reviewed by scientific studies for the disinfection methods referenced.¹

Tai Ping does not accept liability for incorrectly applied methods or failings by third party services named or otherwise. Disinfection must be carried out only by specialized and professional cleaning services with a proven record and who have adopted the methods, equipment and chemical agents that have been approved and recognised by health bodies and/or peer reviewed scientific research.

The infectious lifespan of viruses on surfaces depends on temperature, humidity, and the porosity of the surface where the virus is found. In a 2011 study called Survival of Influenza A (H1N1) on Materials Found in Households: Implications for Infection Control by Dr. Jane Greatorex at Public Health England, findings showed the virus remained infectious about twice as long on non-porous surfaces, such as plastic and metal, as porous surfaces, like clothing, wood, carpeting etc. Carpet and upholstery is porous, which means it is less hospitable to viruses than non-porous surfaces.

Proper Protocol

Carrying out cleaning of visibly dirty surfaces first followed by disinfection is a best practice measure for prevention of COVID-19 and other viral respiratory illnesses in community settings. Note that cleaning is the removal of dirt and impurities, including germs, using approved cleaning agents to flush out and break down the contaminants in carpeting while Disinfection works by applying antiviral agents, for example EPA-registered disinfectants or specialized systems such as Vapour Phase or Cold Oxygen Plasma (COP) equipment, to kill germs in air and on surfaces.

Cleaning Recommendations

HEPA (High Efficiency Particulate Air) vacuum cleaners should be used for dry areas, while using the recommended Personal Protective Equipment (PPE). HEPA vacuums differ from conventional vacuums in that they contain filters that are capable of trapping extremely small, micron-sized particles. A true HEPA filter can trap 99.97 percent of all airborne particles larger than 0.3 microns. Deep Cleaning steps employing IICRC certified cleaners may then be executed. Note if wet methods are utilized, be sure hot water temperatures should be avoided as wool will shrink with high temperatures and silk can be damaged and become matted down. Additionally, over-soaking the carpet can also cause permanent damage to the fibers and dyes. Be sure to air dry - DO NOT USE FANS which can create contaminated aerosols.

Disinfecting of Carpets in Response to Covid-19

Disinfection Method A - Vapo Phase Disinfection Systems

Most disinfectants are designed for non-porous or hard surfaces and cannot be applied directly to carpeting. Furthermore, most antiviral disinfectants will damage or bleach delicate carpet fibres.

An effective disinfection method for carpeting that releases a viricide into the air above the carpeted area is known as vapour-phase, commonly known as fogging. A fogging machine generates a very fine mist of airborne droplets of the disinfection agents. Effective contemporary fogging systems use Hydrogen Peroxide Vapour (HPV) [hydrogen peroxide <8% and silver ion], a vapour-phase ionized disinfection method, specifically for the inactivation of viruses such as COVID-19. Virucidal disinfectants should be selected that do not discolour or adversely affect the surfaces and that have a broad spectrum of activity against viruses, bacteria, fungi and spores to a Log Power of 6 and must be certified to EN 14476:2013+A2:2019 and EN 1276:2019. Hydrogen peroxide vapour (HPV) is well established as a bio-decontamination agent due to its resident free nature” (the only residues are oxygen and water) and low temperature, vapour-phase application. HPV has been tested against many organisms and classes of organisms.

Note, there are many brands and providers of HPV technology, most professional cleaning companies currently use or have access to HPV equipment. While the aforementioned HPV systems are designed to create a fine ionized mist, a test must be first performed on a sample or hidden carpet area to ensure there is no effect to carpet appearance. Do not apply Hydrogen Peroxide in liquid form directly to carpeting as it will bleach color. Surrounding areas and surfaces should also be tested to ensure no damage will occur to furniture finishes, etc.

Disinfection Method B - Cold Oxygen Plasma Systems

Cold Oxygen Plasma (COP) technology utilizes a combination of Ultraviolet-C light, ozone and photo plasma. Each of these states of matter and reactions act as powerful and effective disinfectants which destroy viruses, odours, bacteria, mildew, mould and even break down unwanted compounds and chemicals. COP systems are not ‘single shot’ disinfection applications, but instead, the relatively small COP units are run in place for a specified period and can even be installed permanently, either in standalone units or inside existing HVAC systems, in order to continuously and safely disinfect specific public areas.

While the above methods have been described according to known best practices, an experienced cleaning company may have their own developed methodologies with equally effective results and track record. This guide does not propose to outline the only or unique solution nor does it denigrate other effective solutions. It remains the responsibility of the customer to carefully select and research recommended and approved cleaning companies as well as the decision for the appropriate cleaning and disinfection methods.

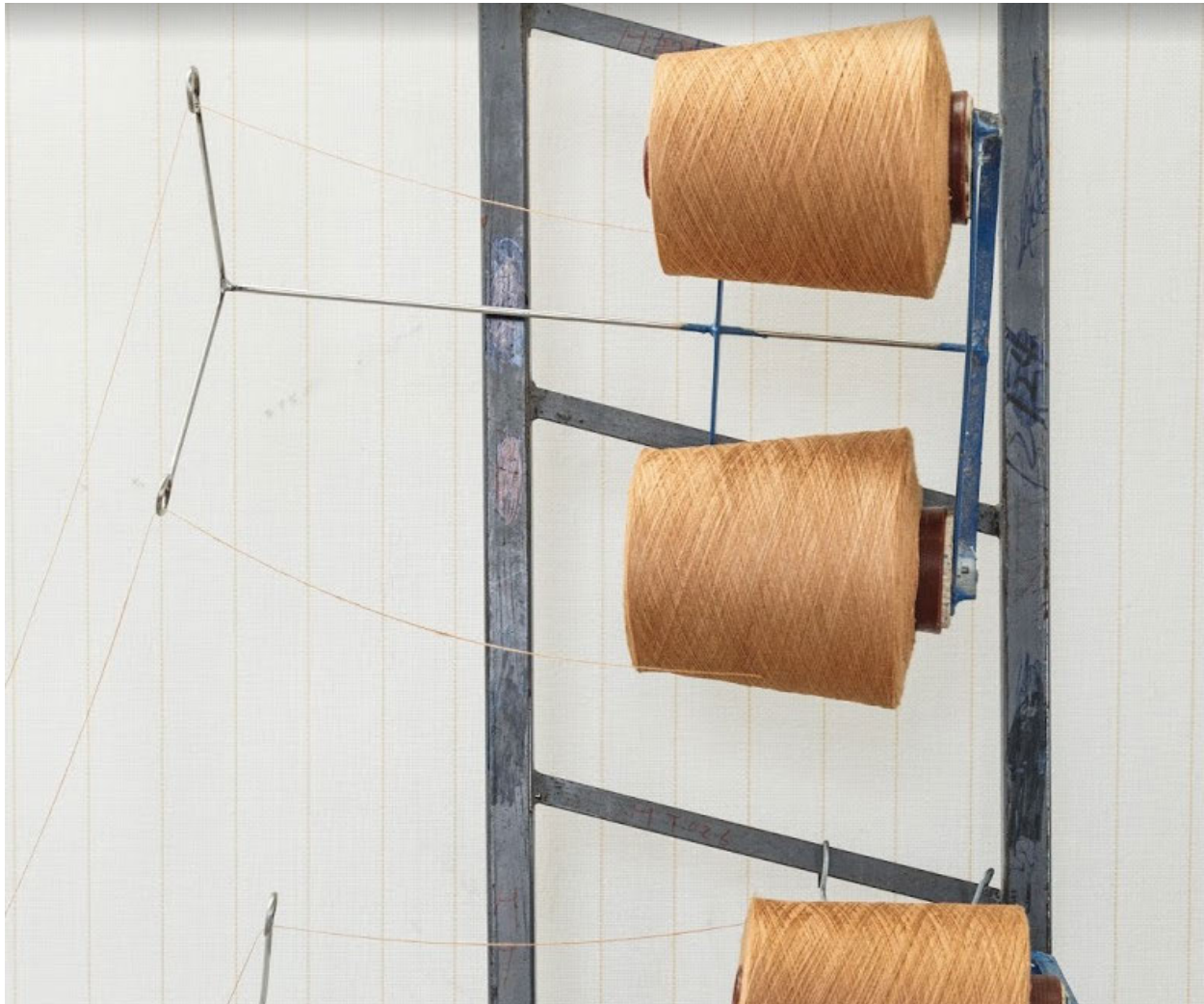
Aviation Requirements

Electrostatic Propensity

Tai Ping aviation products utilize No-Shock® anti-static conductive fibre blended with the natural carpet fibres, and are not treated topically post-manufacture. LA70 dispersant is added to the latex compound that forms the carpet backing, and helps to earth static charge. The resulting permanent electrostatic propensity is less than 3.5 KV, and tested to AATCC 134-06 in external labs.

FAA Flammability

Rigorous testing is conducted to guarantee that all products adhere to strict FAA requirements in accordance with FAR 25.853 and provide 8110 burn documentation. Tai Ping tests at the Factory as well as an independent laboratory to ensure carpets are certified to meet the requirements of the FAA.



Receiving, Proper Carpet Storage & Managing Humidity

Carpets should be opened immediately upon receipt for inspection and stored for as little time as possible. The ideal way to store carpet is lying flat in a temperature controlled environment free of debris and protected from all light sources. If that is not possible due to space restrictions, it is then recommended to suspend carpets on horizontal poles to lift the carpets from the ground. Avoid stacking carpet rolls. Storing for long times before installation in humid conditions can cause roll crush and mildew growth.

For Unrolled Carpets

Tai Ping carpets should ideally be stored and installed in a clean, dry and well ventilated environment prior to installation. The ideal temperature for installed carpets is between 15-25 degree Celsius and the related humidity rate between 40-70%.

For Packed Carpets

The packaged carpets should be stored singly on a flat, even surface. The temperature and humidity of the storage room is not as sensitive as when the carpets are unrolled; however, it is recommended to avoid temperature and humidity variation. Should installation delays occur, it is recommended that every 6 - 8 weeks, the carpet floor-coverings should be removed from the packaging, rolled out onto a clean and dry surface and allowed to 'breathe' for two hours before carefully and securely re-packing. This process reduces the risk mildew discoloration and pile crush that can be associated with prolonged storage.

Despite these efforts, mildew prevention cannot be 100% guaranteed. The ideal way to store carpet for extended periods of time is laying them flat in a temperature controlled environment free of debris and protected from all light sources.

If this is not an option review the following steps while storing rolled carpets in an open warehouse:

- After initial inspection, roll the carpet back onto the tube in the same manner that it was received from the factory.
- Lightly tape around the roll in regular intervals to keep any hanging edges from forming. Filament tape in 1 – 2” rolls will work the best.
- Wrap the carpet in a protective product like Tyvek® for protection against liquids and foreign objects. Tape the wrapping closed with desiccants placed inside to absorb moisture, while leaving the ends of the cardboard tubes open.
- Next, a carpet pole or any metal bar or tubing that is rated to withstand the weight of the carpet, should be placed through the tube. Leave enough pole length on each end to be placed on a Suspended Roll Rack that does not allow the roll to touch the floor.
- To avoid possible tears from a forklift it is recommended that the carpets are simply rolled onto the forks by hand and the roll lowered onto the Suspended roll racks.
- Unrolling the carpet in monthly intervals and vacuuming to eliminate any possible roll lines or creases that may have formed during storage is strongly recommended.



Warranty

Tai Ping's warranty extends to all carpets and rugs for 2 years beginning the date of delivery of the carpet and contingent upon proper receiving, storage, installation and maintenance. The warranty protects against manufacturing defects in accordance to the terms stated below:

The carpet must be inspected upon receipt to ensure goods were manufactured correctly and as expected.

The carpet must be installed in accordance with the Carpet & Rug Institute guidelines and the manufacturer's installation instructions.

This warranty applies only to manufacturing defects and does not extend to improper installation, tears, pulls, cuts, pilling, burns, matting, crushing, watermarking, dye lot differences or damage due to improper cleaning agents or methods, lack of protection from roller carts or other furniture, damage resulting from negligence, improper use or natural disaster.

Carpet installed on stairs is not covered under this warranty. This warranty specifically excludes carpets which have been surface treated with materials not recommended or approved by Tai Ping. All maintenance cleaning products, equipment and systems must be certified through the Carpet & Rug Institute (CRI) Seal of Approval (SOA) programs. Approved products are listed on the CRI website at www.carpet-rug.org.

In addition, carpet cleaning chemicals used on wool-based products should be 'Woolsafe' approved and with a pH of 8.0 or below. These products can be found at www.wool-safe.org.

In the event that the carpet fails to meet warranty guidelines, contact your Tai Ping representative. We require our Technical Service Representative to inspect and analyse the carpet with regard to the claim before any repair or replacement is made. Tai Ping will take whatever action is necessary to remedy any carpet exhibiting manufacturing defects.

