PLEASE PLANT

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FASTENER & ANCHORING GUIDE

BEST PRACTICES FOR SECURE INSTALLATIONS



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OVERVIEW

Selecting the appropriate fasteners and anchoring methods is essential for ensuring the stability, longevity, and safety of exterior furnishings, decking, and architectural components. Different substrates require specific anchoring solutions to accommodate load-bearing requirements, material compatibility, and environmental conditions.

UNDERSTANDING FASTENERS & ANCHORS

Fasteners and anchors come in various forms, each suited for specific applications. Understanding their function is key to selecting the right hardware.

- **Mechanical Fasteners** – Includes screws, bolts, and expansion anchors that rely on friction or compression for holding strength.
- **Adhesive Anchors** – Uses epoxy or chemical bonding agents to secure fasteners in place, ideal for high-load applications.
- **Hidden Fastening Systems** – Designed for applications where aesthetics are a priority, such as decking or architectural panels.



CONCRETE & MASONRY

Concrete is a strong but brittle material requiring expansion or adhesive-based anchors for effective load distribution.

- **Recommended Fasteners:** Expansion bolts, wedge anchors, and epoxy-set anchors for seismic-rated or high-load applications.
- **Installation Tip:** Pre-drilling holes to the proper depth and cleaning out debris ensures maximum anchor grip.



EXPANSION BOLT | WEDGE ANCHOR | EPOXY-SET ANCHOR

WOOD & COMPOSITE MATERIALS

Wood expands and contracts with temperature and humidity changes, requiring flexible fasteners to prevent warping or splitting.

- **Recommended Fasteners:** Stainless steel lag screws, deck screws with corrosion-resistant coatings, and concealed clip systems for composite applications.
- **Installation Tip:** Pre-drilling is recommended for hardwoods and composite materials to prevent splitting.



LAG SCREW | DECK SCREW | HIDDEN CLIP SYSTEM

METAL INSTALLATIONS

Metal surfaces require self-tapping screws or bolts with locking mechanisms to ensure secure fastening.

- **Recommended Fasteners:** Self-tapping screws, machine screws with lock nuts, and rivets for maximum holding strength.
- **Installation Tip:** Use washers or locking nuts to prevent loosening due to vibration or temperature shifts.



SELF-TAPPING SCREW | MACHINE SCREW WITH LOCK NUT | RIVET

ENVIRONMENTAL CONSIDERATIONS

Corrosion, moisture, and temperature fluctuations impact fastener performance and longevity.

- Use corrosion-resistant materials such as stainless steel or hot-dip galvanized fasteners.
- Apply protective coatings in high-moisture or coastal environments.
- Accommodate material movement with expansion allowances and flexible joint systems.



CORROSION RESISTANT | HIGH MOISTURE ENVIRONMENTS | FREEZE-THAW CYCLES

MAINTENANCE & INSPECTION

Regular inspections and proper maintenance ensure long-term structural integrity.

- Check fasteners for tightness and corrosion periodically.
- Replace worn or damaged fasteners immediately.
- Follow manufacturer guidelines for load capacities and re-torque requirements.

