

316 Stainless MarineLOK Fasteners Arrive for Heavy-Duty Structural Marine Use

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July 25, 2026 · loginxiao@gmail.com

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Key Data Points

This story reports a measured change such as 3%. Figures like this show direction and scale, so it helps to keep them separate from the surrounding commentary.

- **Change / rate:** 3% 316 stainless contains molybdenum, typically 2–3%, which significantly improves resistance to pitting and crevice corrosion in chloride-rich environments.

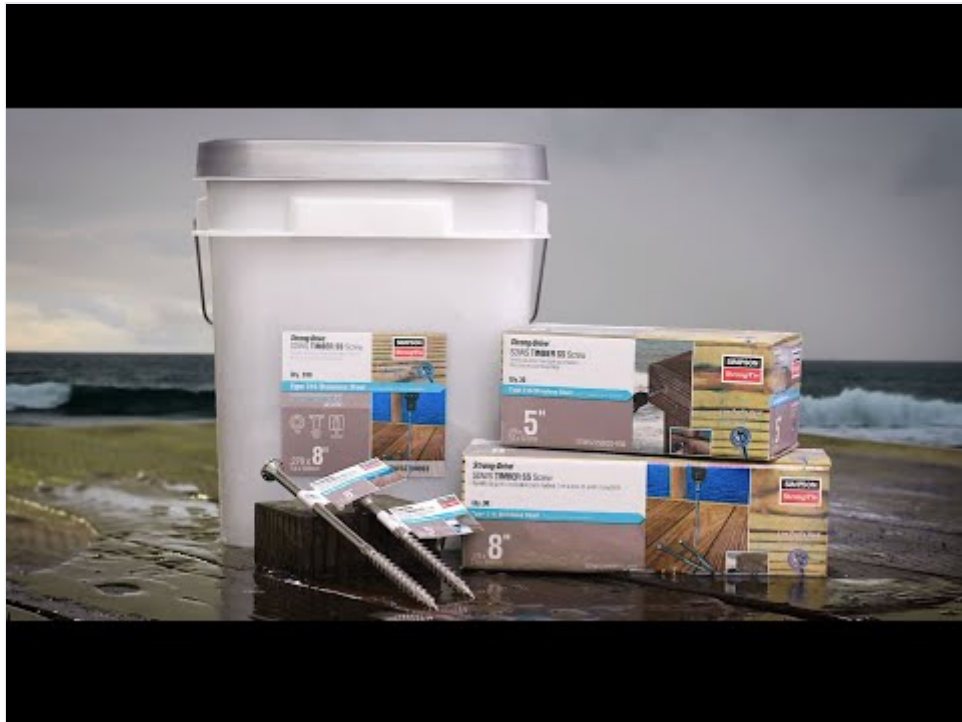
[FastenMaster](#) has expanded its structural fastener portfolio with MarineLOK, a heavy-duty line constructed from 316 stainless steel that directly targets marine and waterfront construction. The product rollout was reported by [Red Book Lumber Data](#), a leading resource for lumber industry news.

Product Launch: MarineLOK Structural Fasteners

097 - Lifting Eye Bolt — GB/T 825 □ DIN 580 (Series 036) — GB/T 825 □ DIN 580

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MarineLOK fasteners are engineered to deliver reliable performance in wet, salt-laden environments where corrosion can quickly compromise safety. Unlike standard [Hex Bolts — ISO 4014 / ISO 4017](#) intended for general construction, these fasteners are optimized for structural connections in timber piling, docks, piers, boardwalks, and seawalls. **FastenMaster** designed the MarineLOK line to address the specific demands of heavy-duty marine fastening, where both mechanical strength and long-term corrosion resistance are non-negotiable.



► Watch video: <https://www.youtube.com/watch?v=NTKggrl7tHk>

Strong-Driveu00ae SDWS Timber SS Type 316 Stainless Steel Structural Screws— by Simpson Strong-Tie on YouTubeThe Strong-Driveu00ae SDWS Timber SS screw is ideal for construction and repair of coastal piers, boardwalks, docks and otheru00a0...

Material Choice: 316 Stainless Steel

118 - Hex Bolt — GB/T 6173 □ ISO 8675 (Series 057) — GB/T 6173 □ ISO 8675

118 - Hex Bolt — GB/T 6173 □ ISO 8675 (Series 057) — GB/T 6173 □ ISO 8675

The decision to use 316 stainless steel sets MarineLOK apart from many carbon-steel or coated fasteners common in other structural applications. 316 stainless contains molybdenum, typically 2-3%, which significantly improves resistance to pitting and crevice corrosion in chloride-rich environments. This makes it the material of choice for marine hardware, boat fittings, and coastal infrastructure. Over time, the alloy maintains its structural properties even when exposed to salt spray, cyclic wetting, and high humidity, reducing the frequency of inspection and replacement.

In the context of structural fasteners, 316 stainless steel is often specified according to international standards. For instance,[ASTM International](#) publishes ASTM F593, which covers the mechanical and corrosion-resistance requirements for stainless steel bolts, hex cap screws, and studs. Similarly, ISO 3506 defines property classes for corrosion-resistant stainless steel fasteners. While specific certifications for MarineLOK have not yet been released by FastenMaster, adherence to such benchmarks would be expected for a product targeting demanding marine applications.

Structural Fastening in Marine Environments

Marine construction presents a unique set of challenges for fasteners. Constant exposure to moisture, abrasive sand, and salt spray accelerates corrosion, while wave action and heavy loads impose high shear and tensile stresses. Heavy-duty structural fasteners

like MarineLOK must combine a robust thread design with optimal head geometry to deliver maximum holding power in treated timbers. Typical applications include securing ledger boards to pilings, assembling pier frameworks, and anchoring decking materials that experience daily wet-dry cycles.

Standard alternatives such as [Lag Screws \(Hex Wood Screws\) — DIN 571](#) or traditional timber connectors may not offer the same level of corrosion protection or design optimization for marine environments. MarineLOK fasteners are likely to feature aggressive thread patterns that reduce the risk of loosening under dynamic loads, as well as head configurations that simplify installation with common impact tools.

Industry Standards and Compliance

For engineers and procurement specialists, compliance with established industry standards is a critical factor in specifying fasteners for waterfront projects. In addition to ASTM F593 and ISO 3506, reference documents such as the American Wood Council's National Design Specification (NDS) and the International Code Council's building codes provide guidance on minimum load requirements and corrosion protection levels for fasteners in pressure-treated wood. Because many marine structures use wood treated with preservatives like ACQ or CA, compatibility between the fastener material and the treatment chemicals is another important consideration. Stainless steel fasteners of grade 316 are generally recognized as compatible with most modern wood preservatives, but verification through published technical data remains essential.

Installation and Field Use

While FastenMaster has not yet published full installation guidelines for MarineLOK, the company has a track record of engineering fasteners that reduce on-site labor. Prior product lines have eliminated the need for predrilling in wood-to-wood connections, and MarineLOK may follow a similar philosophy. Its 316 stainless composition is inherently non-reactive and suitable for use in wet conditions, allowing contractors to work in less-than-ideal weather without compromising joint integrity.

Field crews can expect these fasteners to perform reliably across a range of marine construction scenarios, provided they are driven according to the manufacturer's torque recommendations. Overdriving can strip threads or damage the wood, while underdriving leaves joints loose, so correct installation is key to achieving the full load capacity specified in engineering tables.

What to Verify Next

Once technical documentation becomes available, project specifiers should confirm several data points directly with FastenMaster or authorized distributors: load capacity charts (shear and withdrawal values for common lumber species and sizes), recommended installation torque, third-party corrosion test results (e.g., ASTM B117 salt spray exposure duration), and compliance statements for relevant building codes. Verifying that the fasteners carry appropriate listings from bodies such as the International Code Council will further support their acceptance in commercial marine projects.

Key Details: FastenMaster MarineLOK Fasteners

Aspect	Details
Manufacturer	FastenMaster
Product name	MarineLOK
Material	316 stainless steel
Target environments	Saltwater, coastal, high-moisture
Key feature	Superior corrosion resistance (molybdenum alloy)
Typical use cases	Docks, piers, boardwalks, seawalls, timber pilings
Relevant standards	ASTM F593, ISO 3506 (common for stainless fasteners)

Why This Matters

Marine environments accelerate corrosion, requiring fasteners that maintain structural integrity over time. The launch of MarineLOK in 316 stainless addresses demand for durable, low-maintenance fastening solutions in waterfront construction, potentially reducing lifecycle costs and improving safety in critical infrastructure like piers and boardwalks.

Sources

- [FastenMaster](https://fastenmaster.com) (fastenmaster.com)
- [Red Book Lumber Data](https://redbooklumberdata.com) (redbooklumberdata.com)
- [ASTM International](https://astm.org) (astm.org)

Source: [Red Book Lumber Data](https://redbooklumberdata.com)

FAQ

Is Red Book Lumber Data the only source for this fastener story?

Red Book Lumber Data is the outlet attached to this item, but it should not be the only reference for an important development. Comparing it with other independent reports gives a fuller and more reliable picture.

What are the key figures in this fastener story?

The article cites figures such as 3%. Numbers like these convey the scale and direction of what happened; for the exact amount and the context around it, the original report is the reference.

What does the reported change in this fastener story mean?

A percentage or rate of change shows direction and momentum, but its meaning depends on the baseline and period being measured. The original report explains what the figure is compared against.

What is this fastener story about?

It summarises a recent development in fastener, drawing on the original reporting. The key facts — who is involved, what changed and any figures or dates attached — are highlighted so the story is quick to grasp.

Why does this fastener development matter?

The significance lies in what it signals: a notable figure, a decision, or a shift that affects the people, places or organisations named. Those are the points worth following as the story continues.

How current is this fastener information?

This article was published on July 25, 2026. News changes quickly, so use it as a starting point and check the named source for later corrections, revised figures or follow-up reporting.

Topics [316 Stainless Steel Corrosion Resistance FastenMaster Marine Fasteners MarineLOK Structural Fasteners](#)