

Type Approval Certificate vs. Witnessed Third Party Certificate Update

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A type approval demonstrates that our product conforms to industry quality standards through a process of independent design review, sample testing, and verification of production controls.

TYPE APPROVAL

Samson's most commonly requested type approvals include ABS, BV, DNV, Lloyd's Register and RMRS.

To obtain type approval, manufacturers must first submit all information regarding a specific product to the registrar; including quality procedures and processes, detailed construction information, manufacturing procedures, and product specifications, such as weights and strengths. After review of the specifications, a testing program is established to manufacture and test selected sizes for the product in accordance with the specified test procedures. All testing is witnessed by the third party to assure accuracy and compliance. Table 1 lists current type approval certifications held by Samson. For further details of the applicability of each type approval, please view the certificate through the respective society's type approval database.

ABS (American Bureau of Shipping)..... www.Eagle.org
BV (Bureau Veritas) www.BureauVeritas.com
DNV (Det Norske Veritas)..... www.DNV.com
LLOYD'S REGISTER..... www.LR.org
RMRS (Russian Marine Register of Shipping) www.RS-Class.org

TABLE 1.
Type approval to ISO 2307: ABS, BV, DNV, Lloyd's Register, and RMRS.

Product	ABS	BV	DNV	Lloyd's	RMRS
AmSteel® Blue	X	X	X	X	
EverSteel™-X	X*				
Force-8™	X				
Fusion-12™	X				
HTP-12™					X
M-8™	X				
Neutron-8™	X				
Proton-8™	X				
Quantum-12™	X			X	X
Quantum-8™	X				X
Quantum-X™	X				
RP-12 Nylon™					X
Saturn-12™	X				X
Turbo-RC™	X				
Turbo-DPX™	X				
Turbo-EPX™	X				

*Note: Not all published sizes of the listed products are type approved.
 EverSteel-X is type approved for FSRU and general marine applications.

Once approved, there is typically an annual or bi-annual plant inspection/audit performed by the registrar. This is done to review the manufacturer's quality manual, such as an ISO 9001 manual, and to verify that there are no issues with the quality system or the manufacture of the product. Hence, the quality and consistency of the product is ensured.

A type approval certificate provides the most assurance as to both quality and consistency of a product supplied by the manufacturer, which is all backed by the rigorous testing, inspections, and audits that are required.

An additional benefit to choosing the type approval certificate over a third party certificate is cost. When third party certificates are required, the costs incurred include: cost of the rope; splicing; break test; and inspector fees which can easily total several thousand dollars. For products with type approval, Samson has already paid the costs associated with obtaining certification. On occasion certifications are requested or required that fall outside the scope of the current product approval. For those occasions, Samson offers third party certifications of its product.



SAMSON TECHNICAL BULLETIN

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THIRD PARTY CERTIFICATION

Different from type approval, a third party certification is a one-time inspection of a specific product and/or production run, usually for a product or application that is not currently covered by one of our existing type approval certificates.

In order to obtain a third party certification from Samson, you will need to provide:

- Exact product and diameter(s) to be certified
- The certifying body required
- The certification requirements which need to be attested to (i.e. the specification, standard and/or test method)

The process for conducting a third party approval involves Samson contacting the certifying body to arrange a visit to complete the requested validation.

Once the certifying body completes the required validation, a certified report documenting all results will be provided.



Tests are normally conducted at Samson facilities, but may also be performed offsite at a location approved by the certifying body.

