



Type Approval Certificate and OCIMF MEG4 certificate

Timm™ mooring ropes are delivered with Type Approval Certificate and OCIMF MEG4 Certificate. These two certificates have clear differences, but still create misunderstandings in the market. This document aims to clarify these misunderstandings and define the purposes each certificate serves.

A general product conformity certificate is delivered with each rope to verify its state of compliance with certain standards. These certificates can be mill/works, batch or Type Approval Certificate (TAC). Works or mill certificate is issued and confirmed by the manufacturer and no class society is involved in that process. Batch test certificate is issued based on a break test performed for a specific batch; the manufacturer will then issue a batch test certificate that can be signed by the manufacturer or class society representative. Type Approval Certificate is issued by a class society and is valid for the time period defined in the certificate.

With the introduction of the OCIMF MEG4 guidelines, a new certificate is introduced: OCIMF MEG4 Certificate.

Below is a comparison of the TAC and OCIMF MEG4 certificates:

	Type Approval Certificate (TAC)	OCIMF MEG4 Certificate
Issued by:	TAC is issued by a class society and confirms that the product complies with the relevant TAC standards. It also confirms the rope characteristics: ISO ref. number (nominal diameter), linear density (weight per meter) and strength. For Timm™ products, the TAC is issued by DNV GL.	OCIMF MEG4 certificates are needed for tankers. Base Design Certificate is completed by the manufacturer and verified by an independent inspector. For Timm™ products, we use DNV GL inspectors.
What does it test?	In addition to measuring the mentioned ropes characteristics and inspections of the production process and manufacturing plants, the only test needed for TAC is a breaking test.	There are more tests needed for creating a Base Design Certificate compared to the breaking test done for TAC. These tests are very time consuming, expensive and demand a variety of testing equipment. (List on the next page)
What certs are delivered?	Based on the TAC, Wilhelmsen Ships Service can issue individual certificates for all ropes covered in TAC which are produced in the type approved factories.	Individual OCIMF MEG4 certificates can be issued based on Base Design Certificate.

Timm™ by Wilhelmsen Certificates

Wilhelmsen Ships Service offers an optimized product certificates setup, targeting the segments applicable for the different product types.

Timm™ Master:	TAC and OCIMF MEG4
Acera™:	TAC and OCIMF MEG4
Timm™ Flex:	Works certificate and OCIMF MEG4 under testing
Timm™ Winchline:	Works Certificate

OCIMF MEG4 test procedures

The table below shows an example of the list of required tests for OCIMF MEG4 certification of a mooring line.

Test Type	Number of tests per size
Linear density	1
Diameter	1
New straight break force	5
Immediate strain	3
Angled break force (D/d 5)	2
Angled break force (D/d 10)	2
Angled endurance (D/d 5)	2
Angled endurance (D/d 10)	2
Axial compression fatigue	2
Material break force at specified temperature	>10+

Accepted by vetting inspectors

WSS can issue individual certificates type approved by DNV GL for Timm™ Master and Acera™ ropes. For tankers, we can issue OCIMF MEG4 certificates for Timm™ Master and Acera™ ropes.

Timm™ Flex tails are currently under testing and we can issue OCIMF MEG4 certificates where some of the values are missing and marked as “Under Testing”. This is still accepted by vetting inspectors.

Wilhelmsen Ships Service has performed the full test scenario as per OCIMF MEG4, as mentioned in DNV GL TAC page 2.

<https://approvalfinder.dnvgl.com/#approval/TAK0000097>

<https://approvalfinder.dnvgl.com/#approval/TAK0000094>

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