



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **S-6213**

This is to certify that the
Lifting Sets for Offshore Containers

with type designation(s)
Chain Sling Assemblies

Manufactured by
Pewag Austria Gesellschaft m.b.H
KAPFENBERG, Austria

is found to comply with
DNV 2.7-1 Offshore Containers
EN 12079-2 Offshore containers and associated lifting sets Part 2: Lifting sets Design, manufacture and marking
IMO/MSC Circular 860
EN 818-4 Short link chain for lifting purposes - Safety - Part 4: Chain slings - Grade 8

Application
Grade 8
1-, 2-, 3- & 4-Part Lifting Sets, with forerunner where fitted,
for
Lifting of Offshore Containers
with Maximum Gross Mass 0 - 25,000 kg

Høvik, 2010-07-05
for Det Norske Veritas AS

Per Esvall
Head of Section



DNV local office:
Essen

This Certificate is valid until
2014-06-30

Ekaterina Safonova
Surveyor

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.
If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Certificate No.: S-6213
File No.: 911.53
Job Id.: 262.1-000821-2

Product description

The Type Approval Certificate covers chain slings assembled by PEWAG Austria GmbH, according to DNV 2.7-1 Offshore Containers.

The Chain Sling Assemblies consist of components covered by PEWAG Austria GmbH respective DNV Type Approval Certificates; details are listed in Appendix 1 of this Type Approval Certificate.

Application/Limitation

Lifting sets shall be assembled according to the strength requirements for lifting sets on Offshore Containers as described in DNV 2.7-1 Offshore Containers, Chapter 8. The angle of the sling legs from vertical should be taken into account when choosing slings. This angle should normally be 45°, but smaller angles can be used.

Special slings, assembled according to the principles described in DNV 2.7-1 Offshore Containers, Chapter 8 and Appendix E, are also covered by this Type Approval. However, if unsymmetrical slings are to be assembled, local DNV office are to be contacted for reviewing in each case, unless otherwise is agreed with local DNV office.

Note: The sling leg is not necessarily the weakest part of the lifting set. Master link assemblies selected for slings with legs at 45° may not be suitable for slings with a smaller angle.

All proof load tests during production to be carried out in accordance with EN 818-4, see also Appendix 2.

The manufacturer shall issue product certificates according to Sec.8.5 in DNV 2.7-1, using the certificate form listed below. This certificate form is only to be used for slings certified according to this Type approval Certificate.

Type Approval documentation

Title:

Document folder from Pewag Austria
Updated product description for chains, links and transition links

Rev.

98.04.08.
Reviewed 2010-06-10

Test report from DNV Linz, Ord.No. 21860033.
Type approval Survey Report, ESN-10-31050-4

Pewag Austria GmbH product certificate for chain slings Form No. 01-2AD.04.13/A-FB.

Tests carried out

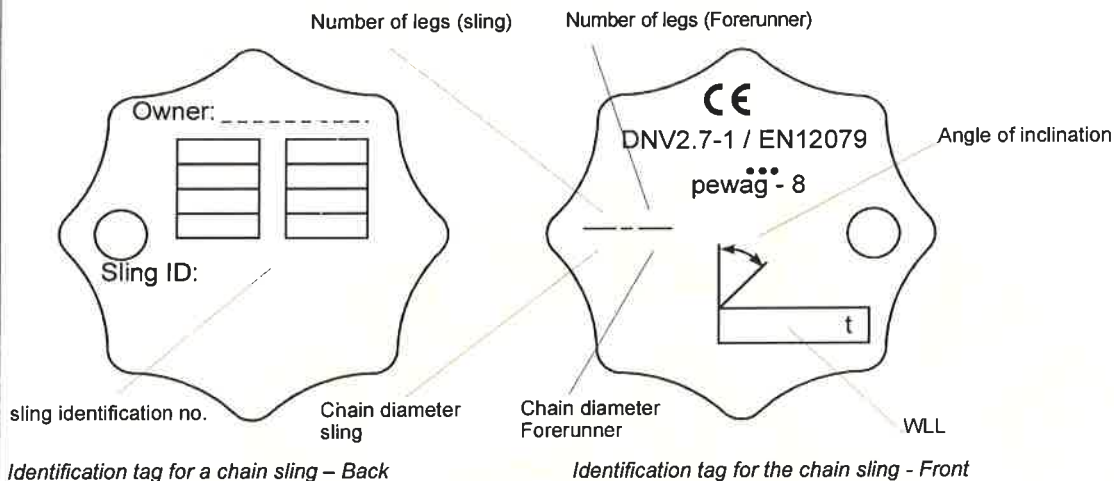
Prototype tests according to test reports.



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Marking of product

Slings are to be marked with certification tag according to DNV 2.7-1 Offshore Containers, Chapter 8, as shown below:



The certificate number shall be clearly stated on the identification tag (on the back).

Certificate Retention Survey

In order to maintain the validity of this type approval, certificate retention surveys are to be carried out according to DNV 2.7-1. Intervals are not to exceed 6 months.

END OF CERTIFICATE



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Appendix 1.

List of the range of component sizes to be covered by the type approval

Links AW / A / MW	AW 16,18,22,26,32,36,45,50,56 A 72 MW 18,22,26,32,36
Transition Links BW / B	BW 10,13,16,20,22,23,25,27,32,36,40,45 B 50
Chains Offsh Ni	9, 10, 13, 16, 19, 22, 26, 32
Chains WIN	9, 10, 13, 16, 19, 22, 26

1-leg slings										
	Master links	AW/A	16	18	22	26	32	36	45	50
	Transition links	BW/B	10	13	16	20	23	27	32	40
	Chains	Offsh Ni or WIN	9	10	13	16	19	22	26	32
	Transition links	BW / B	10	13	16	20	23	27	32	40

2-leg slings - also used in pairs as 4-leg slings										
	Master links	AW/A	18	22	26	32	36	45	50	56
	Transition links	BW/B	10	13	16	20	23	27	32	40
	Chains	Offsh Ni or WIN	9	10	13	16	19	22	26	32
	Transition links	BW/B	10	13	16	20	23	27	32	40

3- and 4-leg slings										
	Master link ass.	VW/V (AW/A + BW/B)	9 (22+16)	10 (26+22)	13 (32+22)	16 (36+26)	19 (50+32)	22 (54+36)	26 (56+40/45)	32 (72+50)
	Transition links	BW/B	10	13	16	20	23	27	32	40
	Chains	Offsh Ni or WIN	9	10	13	16	19	22	26	32
	Transition links	BW/B	10	13	16	20	23	27	32	40

4-leg slings with forerunner (combination between 4-leg sling and forerunner acc. WLL and angle of inclination)										
	Master links	AW/A	16	18	22	26	32	36	45	50
	Transition links	BW/B	10	13	16	20	23	27	32	40
	Chains	Offsh Ni or WIN	9	10	13	16	19	22	26	32
	Transition links	BW/B	10	13	16	20	23	27	32	40
	Master link ass.	VW/V (AW/A + BW/B)	9 (22+16)	10 (26+22)	13 (32+22)	16 (36+26)	19 (50+32)	22 (54+36)	26 (56+40/45)	32 (72+50)
	Transition links	BW/B	10	13	16	20	23	27	32	40
	Chains	Offsh Ni or WIN	9	10	13	16	19	22	26	32
	Transition links	BW/B	10	13	16	20	23	27	32	40

Special chain slings upon request										
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