ABS

Products type approvals

intertraco

Confirmation of Product Type Approval

Company Name: INTERTRACO (ITALIA) S.P.A.

Address: VIA E. AMALDI, 1/A-B SUZZARA, MANTOVA 46029 Italy

Product: Flexible Hose

Model(s): FlexIT 1T, FlexIT 2T, FlexIT SC117, FlexIT SK117, FlexIT SC216, FlexIT SK216, FlexIT SK244, FlexIT H4, FlexIT SHP, FlexIT 5000, FlexIT 6000

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	25-0264758-PDA	28-JUL-2025	27-JUL-2030
Manufacturing Assessment (MA)	21-4889778	06-AUG-2021	17-AUG-2026
Product Quality Assurance (PQA)	NA	NA	NA

Tier
3 - Type Approved, unit certification not required

Intended Service
Hydraulic Systems (mineral and vegetable oils, polyglycol base oils, water/oil emulsions and water)

Description
Oil resistant synthetic rubber hoses reinforced with one, two or four high tensile steel wire braids or spirals, covered with a synthetic rubber. For details see Manufacturer's data sheets.

Ratings
Pressure ratings, sizes and temperatures and approved end fittings for each family are listed in the attachement to this PDA Certificate.

Service Restrictions
1) Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

2) Hoses are to be completed with factory assembled end fittings or factory supplied end fittings installed in accordance with manufacturer's specifications.

3) End connections are to comply with applicable requirements and limitation in accordance with 4-6-2/5.7.3 (b), 4-6-4/Table 2, 4-6-5/Table 3, 4-6-5/Table 5, 4-6-7/5.3.2 & 4-6-7/Table 2 of the Marine Vessels Rules.

4) As per 4-6-2/5.7.4 of ABS Marine Vessel Rules Flexible hoses are to be limited to a length necessary to provide for relative movement between fixed and flexibly mounted items of machinery, equipment, or systems. Flexible hose assemblies are not to be installed where they may be subjected to torsion

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deformation (twisting) under normal operating conditions.

5) Not to be installed in applications where large amount of repeated flexing is expected in combination with pressure pulses.

6) As per 4-6-2/5.7.6 of ABS Marine Vessel Rules, flexible hoses are to be permanently marked by the manufacturer with the following details: Hose manufacturer's name or trademark, Date of manufacture (month/year), Designation type reference, Nominal diameter, Pressure rating, Temperature rating.

Comments
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Manufacturer recommended fittings: see attached Table

Notes, Drawings and Documentation
Drawing No. APPLICATION LIST FOR ABS - 15.06.2020, APPLICATION LIST FOR ABS - 15.06.2020,Revision:0, Pages: 1

Drawing No. BURST TEST REPORT - WITNESSED 1T, BURST TEST REPORT - WITNESSED 1T at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT 2T - BURST TEST REPORT - WITNESSED, FlexIT 2T - BURST TEST REPORT - WITNESSED at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT 2T - HOSE REPORT, FlexIT 2T - HOSE REPORT at Intertraco Plant dated 31 Jul 2019,Revision: 0, Pages: 1

Drawing No. FlexIT 5000 BURST TEST REPORT - WITNESSED, FlexIT 5000 BURST TEST REPORT - WITNESSED at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT 5000 HOSE REPORT, FlexIT 5000 HOSE REPORTat Intertraco Plant dated 31 Jul 2019,Revision: 0, Pages: 1

Drawing No. FlexIT 5000 BURST TEST REPORT - WITNESSED, FlexIT 5000 BURST TEST REPORT - WITNESSED at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT 5000 HOSE REPORT, FlexIT 5000 HOSE REPORTat Intertraco Plant dated 31 Jul 2019,Revision: 0, Pages: 1

Drawing No. FlexIT 5000 IMPULSE TEST, FlexIT 5000 IMPULSE TEST at Intertraco Plant dated 24 Oct2017,Revision: 0, Pages: 1

Drawing No. FlexIT 5000 IMPULSE TEST F500040 - S006I, FlexIT 5000 IMPULSE TEST F500040 - S006I at Intertraco Plant dated 11 July 2019, Revision: 0, Pages: 1

Drawing No. FlexIT 5000 IMPULSE TEST F500048 - S008I, FlexIT 5000 IMPULSE TEST F500048 - S008I at Intertraco Plant dated 04 Jan 2018, Revision: 0, Pages: 1

Drawing No. FlexIT 5000-40 HOSE REPORT, FlexIT 5000-40 HOSE REPORT at Intertraco Plant dated 08 Jan 2019, Revision: 0, Pages: 1

Drawing No. FlexIT 6000 BURST TEST REPORT - WITNESSED, FlexIT 6000 BURST TEST REPORT - WITNESSED at Intertraco Plant dated 31 Jul 2019 , Revision: 0, Pages: 1

Drawing No. FlexIT 6000 HOSE REPORT, FlexIT 6000 HOSE REPORT at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT 6000 IMPULSE TEST, FlexIT 6000 IMPULSE TEST at Intertraco Plant dated 12 Jul 2016, Revision: 0, Pages: 1

Drawing No. FlexIT H4 BURST TEST REPORT - WITNESSED, FlexIT H4 BURST TEST REPORT - WITNESSED at Intertraco Plant dated 31 Jul 2019 , Revision: 0, Pages: 1

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Drawing No. FlexIT H4 HOSE REPORT, FlexIT H4 HOSE REPORT at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT H4 IMPULSE TEST, FlexIT H4 IMPULSE TEST at Intertraco Plant dated 21 Aug 2018, Revision: 0, Pages: 1

Drawing No. FlexIT SC216 BURST TEST REPORT - WITNESSED, FlexIT SC216 BURST TEST REPORT - WITNESSED at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT SC216 HOSE REPORT, FlexIT SC216 HOSE REPORT at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT SC216 HOSE REPORT SC216-40, FlexIT SC216 HOSE REPORT SC216-40 at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT SC216 IMPULSE TEST, FlexIT SC216 IMPULSE TEST at Intertraco Plant dated 28 Jun 2016, Revision: 0, Pages: 1

Drawing No. FlexIT SHP BURST TEST REPORT - WITNESSED, FlexIT SHP BURST TEST REPORT - WITNESSED at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT SHP HOSE REPORT, FlexIT SHP HOSE REPORT at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT SHP IMPULSE TEST, FlexIT SHP IMPULSE TESTat Intertraco Plant dated 07 Apr 2016, Revision: 0, Pages: 1

Drawing No. FlexIT SK117 BURST TEST REPORT - WITNESSED, FlexIT SK117 BURST TEST REPORT - WITNESSED at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT SK117 HOSE REPORT, FlexIT SK117 HOSE REPORT at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT SK216 BURST TEST REPORT - WITNESSED, FlexIT SK216 BURST TEST REPORT - WITNESSED at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT SK216 HOSE REPORT, FlexIT SK216 HOSE REPORT at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. FlexIT SK216 IMPULSE TEST, FlexIT SK216 IMPULSE TEST at Intertraco Plant dated 10 Nov 2016, Revision: 0, Pages: 1

Drawing No. HOSE REPORT - FlexIT 1T, HOSE REPORT - FlexIT 1T at Intertraco Plant dated 31 Jul 2019,Revision: 0, Pages: 1

Drawing No. Hydraulic Hoses FlexIT 018_1T, Hose data sheet, Revision: 0, Pages: 1

Drawing No. Hydraulic Hoses FlexIT 018_2T, Hose data sheet, Revision: 0, Pages: 1

Drawing No. Hydraulic Hoses FlexIT 018_5000, Hose data sheet, Revision: 0, Pages: 1

Drawing No. Hydraulic Hoses FlexIT 018_6000, Hose data sheet, Revision: 0, Pages: 1

Drawing No. Hydraulic Hoses FlexIT 018_H4, Hose data sheet, Revision: 0, Pages: 1

Drawing No. Hydraulic Hoses FlexIT 018_SC216, Hose data sheet, Revision: 0, Pages: 1

Drawing No. Hydraulic Hoses FlexIT 018_SHP, Hose data sheet, Revision: 0, Pages: 1

Drawing No. Hydraulic Hoses FlexIT 018_SK117, Hose data sheet, Revision: 0, Pages: 1

Drawing No. Hydraulic Hoses FlexIT 018_SK216, Hose data sheet, Revision: 0, Pages: 1

Drawing No. Hydraulic Hoses FlexIT F500048 DRAFT, Hose data sheet, Revision: 0, Pages: 1

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Drawing No. IMPULSE TEST - FlexIT 1T, IMPULSE TEST - FlexIT 1T at Intertraco Plant dated 31 Jul 2019, Revision: 0, Pages: 1

Drawing No. Datasheet Hydraulic Hoses FlexIT SC117, Revision 0, Pages 1

Report No. D24-057, SC117 Impulse test booklet at Intertraco Plant dated 08 Feb 2021, Revision 0 pages 18

Report No. -, Hose report SC117 booklet at Intertraco Plant dated 27 Aug 2024, Revision 0 pages 9

Report No. 1338.0IS0110/24, Fire test on SC117 at LAPI dated 25 Jul 2024, Revision 0 pages: 31,

Report No.-, Static test booklet for SC117 at Intertraco Plant dated 27 Aug 2024, Revision 0 pages 4

Drawing No. Datasheet Hydraulic Hoses FlexIT F5000, Revision 0, Pages 1

Report No. D20-051, Flexit5000 Impulse test booklet at Intertraco Plant dated 28 Apr 2020, Revision 0 pages 2

Report No. -, Hose report Flexit5000-12 at Intertraco Plant dated 07 Jun 2023, Revision 0 pages 1

Report No.-, Static test Flexit5000-12 at Intertraco Plant dated 09 Jun 2023, Revision 0 pages 1

Drawing No. Datasheet Hydraulic Hoses FlexIT SK117, Revision 0, Pages 1

Report No. D19-185, SK117-10 Impulse test booklet at Intertraco Plant dated 12 Nov 2019, Revision 0 pages 2

Report No. -, SK117-10 Hose reportat Intertraco Plant dated 07 Jun 2023, Revision 0 pages 1

Report No.-, Static test SK117-10 at Intertraco Plant dated 09 Jun 2023, Revision 0 pages 1

Drawing No. Datasheet Hydraulic Hoses FlexIT SK216, Revision 0, Pages 1

Report No. D21-125, Flexit SK216-8 Impulse test booklet at Intertraco Plant dated 22 Dec 2021, Revision 0 pages 4

Report No. -, SK216-8 Hose reportat Intertraco Plant dated 09 Jun 2023, Revision 0 pages 3

Drawing No. Datasheet Hydraulic Hoses FlexIT SK244-06, Revision 0, Pages 1

Report No. D20-094, SK244-06Impulse test booklet at Intertraco Plant dated 11 May 2020, Revision 0 pages 2

Report No. -, SK244-06 Hose reportat Intertraco Plant dated 31 Jan 2020, Revision 0 pages 1

Report No.-, Static test SK244-06 at Intertraco Plant dated 31 Jan 2020, Revision 0 pages 2

Term of Validity
This Product Design Assessment (PDA) Certificate remains valid until 27/Jul/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules
Rules for Condition of Classification (2025): 1-1-4/7.7, 1-1-A3 and A4, which covers the following:

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- Rules for Building and Classing Marine Vessels (2025): 4-6-2/5.7

Rules for Conditions of Classifications – Offshore Units and Structures (2025): 1.1.4/9.7, 1-1-A2 and A3, which covers the following:

- Rules for Building and Classing Mobile Offshore Drilling Units (2025): 4-2-1/11.29
- Rules for Building and Classing Mobile Offshore Units - (2025): 4-2-1/11.29

International Standards
NA

EU-MED Standards
NA

National Standards
NA

Government Standards
NA

Other Standards
NA





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ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the “Intended Service” details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

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Confirmation of Product Type Approval

Company Name: INTERTRACO (ITALIA) S.P.A.

Address: VIA E. AMALDI, 1/A-B 46029 Italy

Product: Flexible Hose

Model(s): R1K, R2K & R2K+, 4ST, 4ST+ & 6ST, HST

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	21-2176600-PDA	19-NOV-2021	18-NOV-2026
Manufacturing Assessment (MA)	21-4889778	06-AUG-2021	17-AUG-2026
Product Quality Assurance (PQA)	NA	NA	NA

Tier
3 - Type Approved, unit certification not required

Intended Service
Hydraulic Oils, both Mineral and Biological, Polyglycol Base Oils, Water-Oil Emulsion and Water

Description
R1K: Synthetic rubber tube with one high tensile steel wire braid covered with synthetic rubber cover abrasion resistant type, MSHA flame retardant approved.

R2K & R2K+: Synthetic rubber tube with two high tensile steel wire braids covered with synthetic rubber cover abrasion resistant type, MSHA flame retardant approved.

4ST: Synthetic rubber tube with four high tensile steel wire spirals covered with synthetic rubber cover abrasion resistant type, MSHA flame retardant approved.

4ST+ &6ST: Synthetic rubber tube with four/six high tensile steel wire spirals covered with synthetic rubber cover abrasion resistant type, MSHA flame retardant approved.

HST: Synthetic rubber tube with four/six high tensile steel wire spirals covered with synthetic rubber cover abrasion resistant type, MSHA flame retardant approved.

Ratings
R1K: from DN 06 to DN 25, pressure from 250 bar to 120 bar.

R2K & R2K+: from DN 06 to DN 25, pressure from 420 bar to 210 bar.

4ST: from DN 16 to DN 63, pressure from 350 bar to 140 bar.

4ST+ & 6ST: from DN10 to DN 63, pressure from 450 bar to 350 bar.

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HST: from DN 19 to DN 31, pressure 500 bar.

For additional details see attached table.

Service Restrictions
Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

1) Hoses are to be completed with factory assembled end fittings or factory supplied end fittings installed in accordance with manufacturer's specifications.

2) End connections are to comply with applicable requirements and limitation of Rules (4-6-2/5.5.4, 4-6-2/5.5.5, 4-6-7/3.5.1, 4-6-7/5.3.2).

3) Hose assemblies are to be installed only where flexibility is required, in clearly visible and readily accessible locations, and are not to be subject to torsional deflection under normal conditions; hose length is to be limited to that required by flexibility only.

4) Not to be used in high pressure fuel oil injection systems, steam systems or oil supply lines to boilers.

5) Not to be used for installations where repeated and/or frequent flexing is expected.

6) Flexible Hoses are to be permanently marked by the manufacturer with the following details: Hose manufacturer's name or trademark, date of manufacturer (month/year), designation type reference, nominal diameter, pressure and temperature rating in accordance with Marine Vessel Rules 4-6-2/5.7.6.

7) The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.

Comments
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes, Drawings and Documentation
Test report No. 4ST - BURST TEST REPORT - WITNESSED (Mantova, Italy, 11-dec-2018)

Test report No. 4ST - HOSE REPORT (Mantova, Italy, 11-dec-2018)

Drawing No. 4ST - Hose data sheet - Hydraulic Hoses Europe 018

Test report No. 4ST - IMPULSE TEST (Mantova, Italy, 17-mar-2017)

Test report No. 4ST+ & 6ST - BURST TEST REPORT - WITNESSED (Mantova, Italy, 11-dec-2018)

Test report No. 4ST+ & 6ST - HOSE REPORT (Mantova, Italy, 11-dec-2018)

Test report No. 4ST+ & 6ST - IMPULSE TEST REPORT (MANTOVA, ITALY, 17-MAR-2017)

Drawing No. 4ST+ - HOSE DATA SHEET - Hydraulic Hoses Europe 018

Drawing No. 6ST - HOSE DATA SHEET - Hydraulic Hoses Europe 019

Drawing No. APPLICATION LIST FOR TYPE APPROVAL RENEW 2021

Drawing No. BRIDGESTONE RECAP ABS 2021

Drawing No. MEDB00005AX-Bridgestone

Test report No. HST - BURST TEST REPORT - WITNESSED (Mantova, Italy, 11-dec-2018)

Test report No. HST - HOSE DATA SHEET - Hydraulic Hoses Europe 019

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Test report No. HST - HOSE REPORT (MANTOVA, ITALY, 11-DEC-2018)

Test report No. HST - IMPULSE TEST REPORT (MANTOVA, ITALY, 17-MAR-2017)

Drawing No. HST COMPLETE RANGE

Test report No. R1K - BURST TEST REPORT - WITNESSED (Mantova, Italy, 11-dec-2018)

Drawing No. R1K - HOSE DATA SHEET - Hydraulic Hoses Europe 018

Test report No. R1K - HOSE REPORT (MANTOVA, ITALY, 11-DEC-2018)

Test report No. R1K - IMPULSE TEST REPORT (MANTOVA, ITALY, 17-MAR-2017)

Test report No. R2K - BURST TEST REPORT - WITNESSED (Mantova, Italy, 11-dec-2018)

Drawing No. R2K - HOSE DATA SHEET - Hydraulic Hoses Europe 018

Test report No. R2K - HOSE REPORT (MANTOVA, ITALY, 11-DEC-2018)

Test report No. R2K - IMPULSE TEST REPORT (MANTOVA, ITALY, 17-MAR-2017)

Term of Validity
This Product Design Assessment (PDA) Certificate remains valid until 18/Nov/2026 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules
2021 Rules for Conditions of Classification, 1-1-4/7.7 & 1-1 Appendix 3 and 4, which covers the following:

2021 Rules for Building and Classing Marine Vessels Rules: 4-6-2/5.7

2021 Guide for Building and Classing Yachts: 4-1-1/3.3, 4-4-1/9.19

2021 Rules for Conditions of Classification - Mobile Offshore Units, 1-1-4/9.7 & 1-1 Appendix 2 and 3, which covers the following:

2021 Guide for Classification of Drilling Systems: 4-2-1/11.29

2021 Rules for Conditions of Classification - High-Speed Crafts 2021 1-1-4/11.9, 1-1-Appendix 2 & 3, which covers the following:

2021 Rules for Conditions of Classification - High-Speed Crafts: 4-4-1/9.19

International Standards
NA

EU-MED Standards
NA

National Standards
NA

Government Standards

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NA

Other Standards
NA

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ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the “Intended Service” details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

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