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For the attention of: Mr A McMahon

# Technical Report

Subject: EN 362: 1992 CORROSION RESISTANCE TESTING OF MOBILE MAN  
ANCHOR

Your ref:

Our ref: SPC0194005/1117

Date: 9 May 2011

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Report signed by: Nathan Wright  
Position: PPE Technologist  
Department: Safety Product Centre

## WORK REQUESTED

Samples of components from a mobile man anchor device were received by SATRA on 28 April 2011, for corrosion resistance testing in accordance with EN 362: 1992 Clause 4.4 (as required by EN 795: 1996 clause 4.2)

## CONCLUSIONS

SAMPLE REFERENCE	STANDARD	CLAUSE / TEST	PASS / FAIL
Mobile man anchor	EN 362: 1992	4.4 Corrosion resistance	PASS

## TESTING

Testing was carried out in accordance with EN 362: 1992 between 4 & 5 May 2011

Samples were tested as received, and were not subject to any pre-conditioning processes other than those stated in individual test clauses



Figures 1 & 2 – Mobile man anchor components

## TEST RESULTS

Table 1 – Testing of mobile man anchor in accordance with EN 362: 1992 Corrosion Protection

EN 362: 1992 CLAUSE / TEST	EN 362: 1992 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.4 Corrosion resistance  (EN 364: 1992 Clause 5.13)	No corrosion to be evident that could affect the function of the device (white scaling or tarnishing is acceptable)	Corrosion test in accordance with ISO 9227: 1990 – 24 hours Neutral Salt Spray, followed by 1 hour drying  Temperature: 35 °C Fall out rate: 1.6 ml/hr pH of test solution: 7.5 Specific gravity of test solution: 1.028 (see note 3)  Evidence of large amounts of white scaling on all surfaces. No visual evidence of rust present	See table 2 See note 2	PASS

## ADDITIONAL INFORMATION / NOTES

Table 2 – Additional uncertainty of measurement information (see note 1)

CLAUSE	TEST / COMPONENT	UoM (see note 1)
4.7 Corrosion resistance	Temperature	± 0.99 °C
	Fall-out rate of collected solution	± 2.25 ml (± 0.04 ml/hour for 24 hours)
	Specific gravity of collected solution	± 0.0010 g/ml
	pH value of collected solution	± 0.1
	Angle of sample mounting (if applicable)	± 1.44°

Note 1 – ‘UoM’ denotes estimated Uncertainty of Measurement for stated test results. This uncertainty value is based on a standard uncertainty multiplied by a coverage factor  $k = 2$ , which provides for a confidence level of approximately 95%

Note 2 – Estimated uncertainty of measurement applied at point of test (e.g. to applied force or to tolerance limits) to ensure product meets requirements of the standard

Note 3 – pH value and specific gravity of test solution was found to be outside the requirements of ISO 9227: 1990. This was not considered to significantly influence results however.

\*\*\*\*\* END OF REPORT \*\*\*\*\*

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