PROTON technology

TEST REPORT
issued by an accredited Testing Laboratory

103163 Test Report for IKEA and IKEA suppliers

This report is valid no more than one year from report date. To comply with IOS-MAT-0066, the supplier shall have the test renewed within one year.

IKEA supplier name	STALMOT S.A.
IKEA supplier number	STALMOT S.A.
Address	ul. Sienkiewicza 2
Postal code, city, country	13-100 Nidzica, Poland
VAT no (invoice company)	984 01 04 410
Invoice company and address (if other than above)	Fabryka Okuć Meblowych STALMOT S.A., ul Sienkiewicza 2, 13-100 Nidzica
Client name	Monika Karolak
Phone	48 089 625 66 90 (11)
Mail	monika.karolak@stalmot.com
Part/Article name, number & amount	PEG FOR CATCH AZ 610, 5 items
Date stamp or production date	14.02.2011
Type of base material	steel
Type of coating and batch number	Zinc plating
Coating/Covering producer, trade name and identification code.	Fabryka Okuć Meblowych STALMOT S.A.
Minimum coating thickness (µm)	
How and where were the samples taken?	Order number 0672
Test method	☒ X-ray and NSS (Parts need to pass X-ray before test in NSS) ☐ X-ray and AASS (Parts need to pass X-ray before test in AASS) ☐ X-ray and Dip (Passed X-ray is needed to continue test in Dip) ☐ Gauge meter and Dip test (ED-, liquid- and powder coating) ☐ X-ray only (Pre-galvanized) ☐ Gauge meter only (Anodized or Hot dip galvanized) ☐ NSS only (Zink coating on base material Zamak) ☐ Dip test only (martensitic stainless steel) ☐ Dip test only (ferritic & austenitic stainless steel)
Test standard	NSS ISO 9227:2006
Version of IOS-MAT-0066 standard	AA – 163938 - 7
Service Condition (1, 3 or 5)	1
Significant surface and other requirements	If no significant surface is stated the part(s) will be evaluated according to standard
Other information for the report:	
Pictures included in the report?	☒ Yes If the box is not checked no pictures will be included in the report

IKEA will be given access to all test results. Complete test data are available at Proton Technology AB. The test methods NSS and AASS as per ISO 9227 are accredited methods according to ISO/IEC 17025. Evaluation according to ISO 10289:1999 is not accredited.

The laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005.

Certified according to ISO 9001:2000 and ISO 14001:2004; Lloyd certificate no GBG6003132

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Sample(s) arrived:	2011-02-23	
Sample(s) were named by Proton Technology:	1-5	
Test report version:	3 (new address)	
Start date of test:	2011-02-25	
Objects passed:	Yes	
Report date:	2011-03-22	
Test performed by: (name, phone no., email)	Joakim Ekström, +46(0)36-37 38 53 joakim.ekstrom@proton.se	**Signature:**
Approved by: (name, phone no., email)	Johan Wristel +46(0)36-37 38 56 Johan.wristel@proton.se	**Signature:**

The results below are only valid for the objects with test no. 103163.

Coating thickness measurement

For the test object to pass the coating thickness measurement minimum 80% of the areas measured have to fulfil the requirement. A divergence of -10% from the obtained value is always acceptable. If the coating thickness requirement is not fulfilled the client can proceed the corrosion test by choice.

Minimum coating thickness requirement: -
Requirement fulfilled: -

The results from the coating thickness measurements are presented below.

Object	Mean (µm)
1	7,39
2	6,89
3	7,05
4	7,04
5	7,66

Corrosion test

If the initiating coating thickness test is performed and all of the objects pass ≥ 80% of the objects also have to fulfil the minimum requirement regarding corrosion resistance to pass. If only between 80% and <100% of the areas measured for coating thickness are within the accepted span all of the areas tested for corrosion resistance have to measure up to the minimum requirements.

Test duration	6 hr(s)
Requirements	**For NSS tested objects** R_A ≥5 according to ISO 10289:1999
Test result	Objects 1-5: R_A 7
Requirement fulfilled	Yes

The rating of the corrosion resistance was done according to ISO 10289:1999. See table below:

Protection- (R_P) or Appearance- (R_A) *rating*

Area of defects *A* (%)	**Rating** R_p *or* R_A
No defects	10
0< *A* ≤ 0,1	9
0,1 < *A* ≤ 0,25	8
0,25 < *A* ≤ 0,5	7
0,5 < *A* ≤1,0	6
1,0 < *A* ≤ 2,5	5
2,5 < *A* ≤ 5,0	4
5,0 < *A* ≤ 10	3
10 < *A* ≤ 25	2
25 < *A* ≤ 50	1
50 < *A*	0

Pictures

Picture 1. The object(s) before the corrosion test was started. From the left object no. 1-5. The markings indicate where the coating thickness measurements were made.

Picture 2. The object(s) when the corrosion test was finished. From the left object no. 1-5.