

TEST REPORT No. MI17-0016120-01

CONDUIT SYSTEM FOR CABLE MANAGEMENT

performed in accordance with

EN 61386-1:2008

PRODUCT	Rigid Conduit (Rigid Pipe in ABS)	
MODEL(s) TESTED	TUBOABS0250M	
TRADE MARK(s)	CHT CAPONAGO	
APPLICANT	CHT s.r.l Via Maestri del Lavoro 8 - 20867 CAPONAGO - MB -I	

Tested by	Mascheroni Virginio [Laboratory Technician]	
Approved by	Primicerio Alessandro [Laboratory Manager]	

Revision Sheet

Release No.	Date	Revision Description
Rev. 0	2017-10-04	First edition

The results of tests and checks reported in this Test Report refer exclusively to the samples tested and described in the Report itself. This Report shall not be reproduced partially without the written approval of IMQ S.p.A.. The authenticity of this Test Report and its contents can be verified by contacting IMQ S.p.A., responsible for this Test Report.



GENERAL DATA

SAMPLE

Samples received on	2017-09-18		Item(s) sampled and sent by applicant
IMQ reference samples	BEM	87926	
Samples tested No.	15		
Samples accepted on	15		
Object under analysis recognition	Not carried out		
	Except where stated, characteristics of products were taken from clie description and were not verified by the laboratory		

TESTING LOCATION		
Testing dates	2017-10-02 ÷ 2017-10-04	
Testing laboratory	IMQ S.p.A Via Quintiliano, 43 – 20138 Milano	
Testing site	As above	

ENVIRONMENTAL CONDITION		
Parameter	Measured	
Ambient Temperature	20 ÷ 25 °C	
Relative Humidity	50 ÷ 60 %	
Atmospheric Pressure	900 ÷ 1000 mbar	



REFERENCE DOCUMENT

	DOCUMENT	DATE	TITLE
\boxtimes	EN/IEC	2008	EN 61386-1 :2008

SUMMARY OF CONTENTS

Attachment #	Description	Page
-	-	-

Note:

Attachments may include Schematics, Components information, Component test Reports, Particular Standard test Reports, Standard test Reports, Information from accompanying documents and similar.



EQUIPMENT UNDER TEST (EUT) DETAILS

MODEL (basic)	Description
TUBOABS0250M	Rigid Pipe \varnothing 25 mm : base classification : 1 - 1 - 3 - 1 (first four digits)
VARIANTS (derived)	Description
1	1

MANUFACTURER	CHT S.R.L VIA MAESTRI DEL LAVORO 8 - 20867 CAPONAGO - MB -I
ASSEMBLY PLANT(s)	

GENERAL PRODUCT INFORMATION:

Rigid Pipe \varnothing 25mm; Red Colour

COPY OF MARKING PLATE:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.





PRODUCT DOCUMENTATION		
Document	Reference	
-	-	

SUMMARY OF TEST

POSSIBLE TEST CASE VERDICTS:		
Test object does meet the requirement	P(ass)	
Test object does not meet the requirement	F(ail)	
Test case does not apply to the test object	N.A.	
Test object has not been checked	N.C.	

TEST PERFORMED	CLAUSE	ITEM NUMBER	
Compression test	10.2	1÷3	
Impact test	10.3	4÷15	

GENERAL REMARKS:

Throughout this report a point (coma) is used as the decimal separator.

Unless otherwise stated the uncertainties for the tests and measurements are evaluated in according to IMQ Operational Instruction IO-LAB-001 and IO-LAB-004

The uncertainties evaluation has been carried out in accordance with IEC Guide 115 "Application of Uncertainty of measurement's to Conformity Assessment Activity in the Electrotechnical Sector" and IECEE OD 5014.

Internal Procedure PG-037 ensure that the requirements for traceability of calibrations, of all test equipment requiring calibration, and calibration intervals are met.

The ability or reliability of this product to perform its intended function in a particular application has not been investigated.

Unless otherwise specified, warnings, installation instruction and/or user manual provided with the sample have been checked in Italian or English version only.

IMQ declines any responsibility derived from missing or wrong information provided aside by the applicant.



REQUIREMENTS AND TESTS

10.2	Compression test				
	3 samples of conduit, each (200 ± 5) mm long, subjected to a compression test at (23 ± 2) °C, using the apparatus shown in figure 1	See appended table 10.2	Р		
10.3	Impact test				
	12 samples of conduit, each (200 ± 5) mm in length, or 12 samples of conduit fittings subjected to an impact test using the apparatus shown in figure 2	See appended table 10.3	Р		
10.3.3	At least 9 of the 12 samples passed the test		Р		



TABLES

10.2	TABLE: Compression test								
	Classification (first digit) :				<u>1</u> /2/3/4/5			-	
Size	N° of sample	Ø _{bt} (mm)	F (N)	Ø _{at1} (mm)	[Ø _{bt} - Ø _{at1} / Ø _{bt}]100 ≤ 25 % (%)	Ø _{at2} (mm)	[Ø _{bt} - Ø _{at2} / Ø _{bt}]100 ≤ 10 % (%)	No visible cracks (P/F)	Verdict
25	1	25,02	129,7	0,11	0,45	0,16	0,66	Р	Р
25	2	25,01	134,9	0,51	2,04	0,18	0,72	Р	Р
25	3	25,06	134,4	0,22	0,89	0,22	0,88	Р	Р

Supplementary information:

F = Compression force, reaching the value shown in table 4 within (30 ± 3) s $Ø_{bt}$ = Outside diameter measured before the test $Ø_{at1}$ = Outside diameter measured after the force given in table 4 has been applied for (60 ± 2) s where flattening has taken place, without removing the force

 $Ø_{at2}$ = Outside diameter measured after the test where flattening has taken place, (60 ± 2) s after removal of the force given in table 4 and the intermediate piece

10.3	TABLE: Impact test							
	Classific	Classification (second digit) :				<u>1</u> /2/3/4/5		
	Test temperature (table 1) (°C) :				-15 °C			—
	Mass of hammer (table 5) (kg) :				0,5	0,5 kg		
	Fall heig	ht (table 5) (mm) :		100 mm			—
Size	N° of sample	Check of possil the gauge of fig through the sar N° of samples which passed the test	bility to pass pure 102 nple N° of samples which failed the test	No sign of visible crac N° of samp which pass the test	disint ks oles sed	egration / No N° of samples which failed the test	Total n° of samples which passed the test	Verdict
25	1-12	12	0	12		0	12	Р
Supplementary information:								



MEASUREMENT EQUIPMENT AND INSTRUMENTATION

Instrument	Manufacturer	Model	IMQ Ref.
VERNIER CALIPER	ΜΙΤUΤΟΥΟ	522-601	S03426
DIGITAL CRONOMETER	RS	STOP CLOCK 5500	S03414
DYNAMOMETER	INSTRON	4301	P00470
TEMPERATURE CAMERA	ACS ANGELANTONI	CHALLENGE TC 600	P02107



PHOTOGRAPHS

EUT IDENTIFICATION



END OF TEST REPORT