



CERTIFICATE
NO 1027/47/OA/08/2018/A
OF PRODUCT COMPLIANCE
WITH REQUIREMENTS OF STRENGTH
AND DURABILITY

It is stated that according to the results of executed tests

**hinge hydraulic, flush door (ZM-HIHC070ZEO, ZM-HIHC070BEO)
hinge hydraulic, twin door (ZM-HIHC080ZEO, ZM-HIHC080BEO),
hinge hydraulic, lift-off door (ZM-HIHC090ZEO, ZM-HIHC090BEO)**

distributed by

GTV

ul. Przejazdowa 21 05-800 Pruszków Poland

meets the following requirements:

PN-EN 15570:2010 /EN 15570:2008 Hardware for furniture – Strength and durability of hinges and their component – Hinges pivoting on a vertical axis - IDT /.

Tests conducted according to

PN-EN 15570:2010, points 6.1 - 6.3.10, according 3 test level.

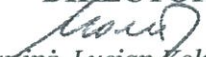
Tests were executed: 20.07.2018 – 07.08.2018

The Certificate contains test report /2 numbered pages/, which are an integral part of the Certificate.

**Engineering Centre For Creating
Product Quality „ATEST” Ltd
str. Bogusławskiego 16, 60-214 Poznań
tel. 61 - 8 652 689
Laboratory in Gruszczyń / Poznań
str. Leśna 12 62-006 Kobylnica**

Signed for and on behalf
“ATEST” Ltd”

DIRECTOR


mgr inż. Lucjan Kokorniak

Poznań, 08.08.2018





ENGINEERING CENTRE FOR CREATING
PRODUCT QUALITY
„ATEST” Ltd

Test report number 1027/47/OA/08/2018/A

Page 1

Article tested: hinge hydraulic, flush door ZM-HIHC070ZEO, ZM-HIHC070BEO hinge hydraulic, twin door ZM-HIHC080ZEO, ZM-HIHC080BEO hinge hydraulic, lift-off door ZM-HIHC090ZEO, ZM-HIHC090BEO

Test door type C, - particle board – height 1600 mm, width 600 mm, thickness 19 mm, distance from top to bottom edges 60 mm, according to Annex B PN-EN 15570:2010 Test parameters.

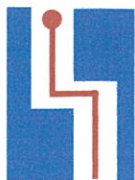
Overload tests

Table 1

EN 15338:2007 Hardware for furniture - Strength and durability hinges and their components - Hinges pivoting on a vertical axis				
6.2 Overload tests				
Number of test	Point of standard	Test	Parameters of test	Test result
1	6.2.1	Vertical static overload		
		hinge hydraulic, flush door ZM-HIHC070ZEO/BEO	Load 30 kg 10 full cycles /back and forth/	pass
		hinge hydraulic, twin door ZM-HIHC080ZEO/BEO		pass
		hinge hydraulic, lift-off door ZM- HIHC090ZEO/BEO		pass
2	6.2.2	Horizontal static overload		
		hinge hydraulic, flush door ZM-HIHC070ZEO/BEO	Load 80 N 10 times	pass
		hinge hydraulic, twin door ZM-HIHC080ZEO/BEO		pass
		hinge hydraulic, lift-off door ZM- HIHC090ZEO/BEO		pass

Positive test result - door and hinges did not detach after the test.

INŻYNIERSKI OŚRODEK
KSZTAŁTOWANIA JAKOŚCI WYROBÓW
„ATEST” - Spółka z o.o.
60-214 Poznań, ul. Bogusławskiego 16
tel./fax 61 865-26-89
NIP 779-206-14-74, Regon 630681995



Functional tests

Table 2

EN 15338:2007 Hardware for furniture - Strength and durability hinges and their components - Hinges pivoting on a vertical axis				
6.3 Functional tests				
Number of test	Point of standard	Test	Parameters of test	Test result
1	6.3.2.2	Closing force, hinges with self-closing mechanisms.	ZM-HIHC070ZEO/BEO 2,0 N	<i>pass</i> (<i>min. 0,5 N</i>)
			ZM-HIHC080ZEO/BEO 2,0 N	
			ZM- HIHC090ZEO/BEO 2,0 N	
2	6.3.2.3	Opening and closing forces	ZM-HIHC070ZEO/BEO 5 N, 2 N	<i>pass</i> (<i>< 20 N</i>)
			ZM-HIHC080ZEO/BEO 2 N, 2 N	
			ZM- HIHC090ZEO/BEO 4 N, 2 N	
3	6.3.3	Vertical static load test	Load 20 kg 10 full cycles /back and forth/	<i>pass</i>
4	6.3.4	Horizontal static load	Load 40 N 10 times	<i>pass</i>
5	6.3.5	Slam shut	Load (m 2) 4 kg 10 times	<i>pass</i>
6	6.3.7	Durability	two masses 1 kg 80 000 cycles	<i>pass</i>
7	6.3.8	Deflection (sagging) test	2,1 mm – 2,3 mm	<i>pass</i> (<i>max. 3,0 mm</i>)
8	6.3.9	Vertical static load test	Load 20 kg 10 full cycles /back and forth/	<i>pass</i>
9	6.3.10	Horizontal static load	Load 40 N 10 times	<i>pass</i>

Positive test result - hinges and their components fulfil their functions after the test.