



**ORGANISMO NOTIFICATO
PER LA CPD N° 1600**

BFT S.p.A.
Via Lago di Vico, 44
36015 - Schio (VI)



Test report n° 151/05



Composed of 5 pages of test report and 75 of attachment

- date 2005-07-04

- request 117

- date 2005-04-21

Refers to

- subject Gate with VIRGO motor

- main characteristics	Width and height	3,960X1,150 m
	Weight gate	200 kg
	Motor power	230 V dc
	Sensing edge	Not present

- model -----

- constructor BFT S.p.A.
Via Lago di Vico, 44 - 36015 Schio (VI)

- registration n° CERT 0117/05

- date of arrival ---

- date of tests 2005-05-25

Sede Legale:

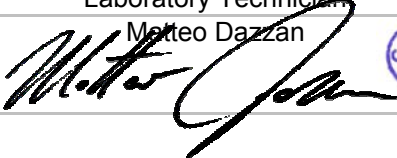

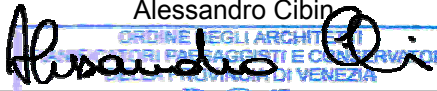

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Measurement of force - UNI EN 12453(2002) point 5

- Environmental conditions of test: Temperature: 30,0 °C
Humidity: 33,0 % U.R.
- Set-up of test sample: Opening torque: 80 %
Closing torque: 80 %
Opening slow-down torque: 50 %
Closing slow-down torque: 50 %

Opening of the wing 50 mm, between the primary edge and the opposite edge				
	Test n°	Dynamic force [N]		
		Point 1	Point 2	Point3
	1	194	278	368
	2	219	258	368
	3	188	231	353
	Average	200,3	255,7	363,0
	Test n°	Static force [N]		
		Point 1	Point 2	Point3
	1	12	11	12
	2	12	14	12
	3	12	10	8
	Average	12,0	11,7	10,7
	Test n°	Final force [N]		
		Point 1	Point 2	Point3
	1	0	0	3
2	1	2	2	
3	0	0	0	
Average	0,3	0,7	1,7	
Test n°	Dynamic time [s]			
	Point 1	Point 2	Point3	
1	0,13	0,10	0,09	
2	0,14	0,11	0,08	
3	0,12	0,12	0,08	
Average	0,13	0,11	0,08	

The average forces found are within the limits defined in the UNI EN 12453(2002) reg.

Opening of the wing 50 mm, between the primary edge and the opposite edge				
	Test n°	Dynamic force [N]		
		Point 4	Point 5	Point 6
	1	112	155	222
	2	95	168	204
	3	112	159	206
	Average	106,3	160,7	210,7
	Test n°	Static force [N]		
		Point 4	Point 5	Point 6
	1	18	1	6
	2	8	3	7
	3	14	1	20
	Average	13,3	1,7	11,0
	Test n°	Final force [N]		
		Point 4	Point 5	Point 6
	1	4	1	0
2	0	3	0	
3	0	1	6	
Average	1,3	1,7	2,0	
Test n°	Dynamic time [s]			
	Point 4	Point 5	Point 6	
1	0,00	0,00	0,04	
2	0,00	0,01	0,04	
3	0,00	0,01	0,04	
Average	0,00	0,01	0,04	

The average forces found are within the limits defined in the UNI EN 12453(2002) reg.

- Machines / equipment used: Force tester Microtronics BlueForce.
- Description of the test: The test was carried out according to the UNI EN 12445(2002) regulation Point 5 and UNI EN 13241-1(2004) regulation Point 4.3.3.
- Notes: The test was carried out on a specimen prepared and installed by the firm BFT S.p.A. via Lago di Vico 44 - 36015 Schio (VI).
- Date of test: 2005-05-25

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Humidity: 33,0 % U.R.
- Set-up of test sample: Opening torque: 80 %
Closing torque: 80 %
Opening slow-down torque: 50 %
Closing slow-down torque: 50 %

Opening of the wing 300 mm, between the primary edge and the opposite edge				
	Test n°	Dynamic force [N]		
		Point 7	Point 8	Point 9
	1	267	384	302
	2	370	331	328
	3	350	382	369
	Average	329,0	365,7	333,0
	Test n°	Static force [N]		
		Point 7	Point 8	Point 9
	1	8	9	5
	2	8	11	8
3	11	6	6	
Average	9,0	8,7	6,3	
Test n°	Final force [N]			
	Point 7	Point 8	Point 9	
1	0	0	0	
2	0	4	1	
3	2	0	0	
Average	0,7	1,3	0,3	
Test n°	Dynamic time [s]			
	Punto 7	Punto 8	Punto 9	
1	0,06	0,09	0,06	
2	0,06	0,09	0,06	
3	0,06	0,09	0,24	
Average	0,06	0,09	0,12	

The average forces found are within the limits defined in the UNI EN 12453(2002) reg.

Opening of the wing 300 mm, between the primary edge and the opposite edge				
	Test n°	Dynamic force [N]		
		Point 10	Point 11	Point 12
	1	139	146	185
	2	297	149	176
	3	137	139	215
	Average	191,0	144,7	192,0
	Test n°	Static force [N]		
		Point 10	Point 11	Point 12
	1	10	23	15
	2	12	25	11
3	14	22	16	
Average	12,0	23,3	14,0	
Test n°	Final force [N]			
	Point 10	Point 11	Point 12	
1	0	3	1	
2	5	1	0	
3	0	2	0	
Average	1,7	2,0	0,3	
Test n°	Dynamic time [s]			
	Point 10	Point 11	Point 12	
1	0,00	0,00	0,04	
2	0,08	0,00	0,04	
3	0,00	0,00	0,05	
Average	0,03	0,00	0,04	

The average forces found are within the limits defined in the UNI EN 12453(2002) reg.

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Humidity: 33,0 % U.R.
- Set-up of test sample: Opening torque: 80 %
Closing torque: 80 %
Opening slow-down torque: 50 %
Closing slow-down torque: 50 %

Opening of the wing 500 mm, between the primary edge and the opposite edge				
	Test n°	Dynamic force [N]		
		Point 13	Point 14	Point 15
	1	249	280	393
	2	170	231	380
	3	181	290	426
	Average	200,0	267,0	399,7
	Test n°	Static force [N]		
		Point 13	Point 14	Point 15
	1	7	7	6
	2	8	6	6
	3	8	8	9
	Average	7,7	7,0	7,0
	Test n°	Final force [N]		
		Point 13	Point 14	Point 15
1	0	0	1	
2	0	0	0	
3	1	1	2	
Average	0,3	0,3	1,0	
Test n°	Dynamic time [s]			
	Point 13	Point 14	Point 15	
1	0,10	0,09	0,05	
2	0,09	0,07	0,05	
3	0,09	0,09	0,05	
Average	0,09	0,08	0,05	
The average forces found are within the limits defined in the UNI EN 12453(2002) reg.				

Opening of the wing 500 mm, between the primary edge and the opposite edge				
	Test n°	Dynamic force [N]		
		Point 16	Point 17	Point 18
	1	199	189	278
	2	188	237	295
	3	191	199	293
	Average	192,7	208,3	288,7
	Test n°	Static force [N]		
		Point 16	Point 17	Point 18
	1	10	7	12
	2	11	8	6
	3	8	7	7
	Average	9,7	7,3	8,3
	Test n°	Final force [N]		
		Point 16	Point 17	Point 18
1	0	0	0	
2	0	0	0	
3	0	0	1	
Average	0,0	0,0	0,3	
Test n°	Dynamic time [s]			
	Point 16	Point 17	Point 18	
1	0,01	0,03	0,04	
2	0,08	0,04	0,05	
3	0,01	0,04	0,05	
Average	0,03	0,04	0,05	
The average forces found are within the limits defined in the UNI EN 12453(2002) reg.				

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Humidity: 33,0 % U.R.
- Set-up of test sample: Opening torque: 80 %
Closing torque: 80 %
Opening slow-down torque: 50 %
Closing slow-down torque: 50 %

Opening of the wing 500 mm, between the back edge and the adjacent sides		
	Test n°	Dynamic force [N]
		Point 19
	1	164
	2	140
	3	138
	Average	147,3
	Test n°	Static force [N]
		Point 19
	1	9
	2	28
	3	25
	Average	20,7
	Test n°	Final force [N]
	Point 19	
1	6	
2	3	
3	1	
Average	3,3	
Test n°	Dynamic time [s]	
	Point 19	
1	0,66	
2	0,00	
3	0,00	
Average	0,22	
The average forces found are within the limits defined in the UNI EN 12453(2002) reg.		

Opening of the wing 500 mm, between the primary edge and the opposite edge		
Point chosen by the laboratory		
	Test n°	Dynamic force [N]
		Point 20
	1	267
	2	227
	3	251
	Average	248,3
	Test n°	Static force [N]
		Point 20
	1	8
	2	6
	3	8
	Average	7,3
	Test n°	Final force [N]
	Point 20	
1	0	
2	0	
3	0	
Average	0,0	
Test n°	Dynamic time [s]	
	Point 20	
1	0,08	
2	0,08	
3	0,09	
Average	0,08	
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