



LGA QualiTest GmbH

Quality Certificate



The LGA QualiTest GmbH

confirms herewith that the company

Hawa AG

8932 Mettmenstetten / SCHWEIZ

has their product

**Fittings for sliding doors of glass and wood
HAWA-Variotec 150/GV, HAWA-Variotec 150/GR
HAWA-Variotec 150/H**

tested/inspected and permanently supervised within the scope of a surveillance agreement

Quality requirements	Standards	Details									
classification (see appendix)	DIN EN 1527 : 1998	-	6	3	0	-	0	-	1	3	
durability	DIN EN 1527 : 1998	100.000 cycles									
slam shut/open functional test	DIN 68859 : 2004	Requirements met									
slam shut/open overload test	DIN 68859 : 2004	Requirements met									
Quality assurance	ISO DIN 9001 2000:	Third party monitoring and self monitoring									

Nuremberg, 11.06.2001
modified, 21.06.2001, 16.06.2008
and 30.12.2009
translated, 01.07.2008



Quality Certificate no. **771**
LGA-Test Report no. 330 1449
and 332 1161

C. Sieber
Certification Body

Dipl.-Ing. (FH) R. Heym
Head of the Furniture Testing Institute

Classification acc. DIN EN 1527 : 1998

Category of use (1st digit):

No grade identified for these products

Durability (2nd digit):

grade 1 = 2500 cycles
 grade 2 = 5000 cycles
 grade 3 = 10000 cycles
 grade 4 = 25000 cycles
 grade 5 = 50000 cycles
 grade 6 = 100000 cycles

Door mass (3rd digit):

grade 1 = door up to 50 kg
 grade 2 = door from 51 to 100 kg
 grade 3 = door from 101 to 330 kg
 grade 4 = door over 330 kg

Fire resistance (4rd digit):

grade 0 = not approved for use on fire door assemblies
 grade 1 = suitable for use on fire door assemblies

Safety (5th digit):

No grade identified for these products

Corrosion resistance (6th digit):

Products are classified from 1 to 4 according to the five grades defined in EN 1670.
 Grade 0 is for products not tested.

Security (7th digit):

No grade identified for these products

Category of door (8th digit):

grade 1 = sliding door
 grade 2 = folding door (bi-fold type)
 grade 3 = multi-panel folding door

Initial friction (9th digit):

Three grades are defined:

Door mass	Up to 50 kg	51-100 kg	101-330 kg	> 330 kg
grade 1	50 N	80 N	100 N	5 % of the mass
grade 2	40 N	60 N	5 % of the mass	4 % der Türmasse
grade 3	30 N	40 N	4 % of hte mass	3 % der Türmasse