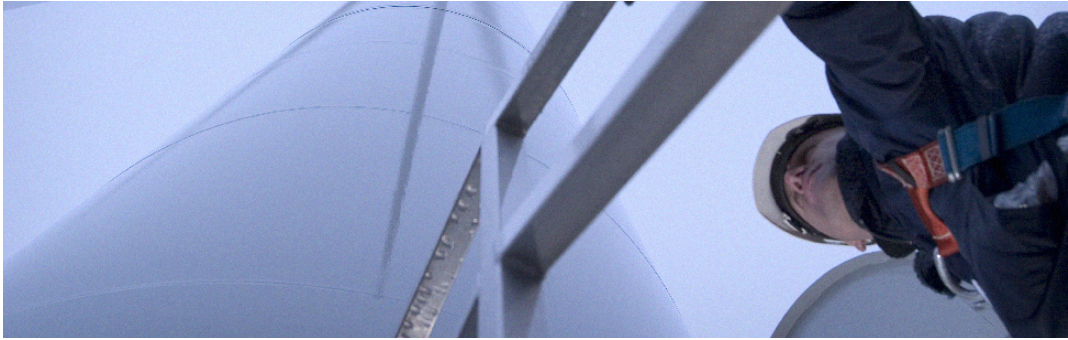


AVANTI STANDARDS APPROVALS AND TESTS - A SAFE INVESTMENT



AVANTI WIND SYSTEMS A/S
Høgevej 17-19
3400 Hillerød
Denmark

P: +45 4824 9024
F: +45 4824 9124

I: www.avanti-online.com
E: info@avanti-online.com

Health and safety issues have been brought on the agenda in the wind turbine industry. As wind turbines get higher and higher – and as they increase in number – focus is turned to safer equipment for people working with wind turbines. As the most recent initiative a new European standard makes demands on operation and maintenance of wind turbines. The Avanti Service Lift and other products have been tested by third parties and comply with the standards in Europe, the USA, Australia and New Zealand.

AVANTI WIND SYSTEMS SL
Poligono Industrial Centrovía
Calle Los Angeles nº88 Nave 1
50196 La Muela (Zaragoza)
Spain

P: +34 976 149 524
F: +34 976 149 508

AVANTI WIND SYSTEMS
Building 14
Weishi Industrial Park
No. 599 Zhongxin Road
Dagang Town
Songjiang District
201614 Shanghai
China

P: +86 21 5785 8811
F: +86 21 5785 8815

AVANTI WIND SYSTEMS, INC.
5145 South Emmer Drive
New Berlin
Wisconsin 53151
USA

P: +1 262 641 9101
F: +1 262 641 9161

AVANTI WIND SYSTEMS, GmbH
Weddingstedter Strasse 52
25746 Heide
Germany

P: +49 481 4215 70 - 0
F: +49 481 4215 70 - 29

(1) Tested by third party: TÜV

(2) Tested by third party: Force - EEC type examination

(3) UL-Classified Underwriters Laboratories

(4) ETRS 3. part Assessment (Australia and NZL)

(5) Design Report Certification by Barr Engineering

Please contact Niels Bramsen, nbr@avanti-online.com if you would like to see test results, certificates and approvals, which document the correctness of the above.

EUROPE:	Service Lift	Ladder	Fall protection	Climb Assist	Resting platform
EN1808	X (1)				
Machinery directive (CE) 98/37/EEC	X			X	
DS/EN 353-1			X		
DIN 18799-1		X			
EEC type examination			X (2)		
ISO / EN14122		X			X
AUSTRALIEN/ NEW ZEALAND:					
AS/NZS 1891.3:1997			X (4)		
USA:					
ANSI1322	X (3)				
ANSI1323	X (3)				
OSHA 1910.68 Powered Platforms	X				
ANSI A14.3-1992		X (5)			
ANSI Z359.1-1992			X (5)		
OSHA 29 CFR 1910.27 "Fixed Ladders"			X (5)		
OSHA 29 CFR 1926.502 Subpart M,			X (5)		
CANADA:					
CAN/CSA-Z271-98	X (3)				
CSA Z 259.2			X (5)		
ANSI A14.3-92		X (5)			



NEW EUROPEAN STANDARD

EN 50 308:

In February 2004 the EU passed the European Standard, which has been in the pipeline for six years and which is now on the way in all member countries. The European standard includes demands regarding protection equipment, guidelines for design, operation and maintenance. The Avanti Service Lift, ladder, climb assist, fall protection and resting platforms are constructed in accordance with the European standard. EN 50308, as the European standard is referred to, was established to harmonize and standardize regulations of safety in accordance with the Machinery Directive and attached EFTA regulation. Among others, the EN 50 308 has been prepared by an expert group consisting of people from wind turbine manufactures, insurance companies and a testing institutes with the status of notified bodies. It comprises regulation regarding protection equipment attached to the health and safety of employees in connection with operation and maintenance of wind turbines.

The general demands and objectives with regard to protection of employees have been established to avoid health and safety hazards.

This includes regulation regarding door openings, access roads, floors, platforms and rails, crash protected ladders, passage and working room, anchoring places and handles, lightning, protection of moving parts, protection against electric hazards, noise levels and thermal insulation.

In 2002 The Danish Working Environment Service introduced rules in Denmark stating that a lift system for transportation of service technicians and tools must be installed in wind turbines higher than 45m. The Danish demand has not been included in the European standard at this time. But the standard has been passed with the reservation that it must be revised. The demand is expected to be included in the European standard when a revision is made.

The rules of the Danish Working Environment Service also demand that the vertical ladder has a platform, on which the service technician can rest on his way up or down. According to the new European standard EN 50308, the ladder must also be equipped with a resting platform for each 9m for the entire height of the ladder.