

BANDSAW 350W
POWX180

1 APPLICATION

This machine is designed for the longitudinal cut and lateral cutting of wood and similar materials.
It is not designed for commercial use.

WARNING! Read this manual and general safety instructions carefully before using the appliance, for your own safety. Your power tool should only be passed on together with these instructions.

2 DESCRIPTION (FIG. 1 – 3)

1. Machine foot
2. Machine casing
3. Extractor connector
4. Motor
5. ON/OFF switch
6. Saw bench
7. Securing screw
8. Securing screw
9. Locking handle
10. Graduated scale
11. Lock nut for top saw band roller
12. Setting screw for top saw band roller
13. Clamping screw
14. Saw band
15. Side cover
16. Sealing screw
17. Top saw band roller
18. Bottom saw band roller
19. Top guide bearing
20. Top support bearing
21. Bottom support and guide bearing
22. Saw band guide
23. Saw band guide securing screw
24. Saw band guard
25. Rubber treads on the saw band rollers
26. Bench insert
27. Parallel stop
28. Parallel stop clamping bar
29. Lateral stop
30. Lateral stop securing screw

3 PACKAGE CONTENT LIST

- Remove all packing materials
- Remove remaining packaging and transit supports (if existing)
- Check the completeness of the packing content
- Check the appliance, the power cord, the power plug and all accessories for transportation damages.
- Keep the packaging materials as far as possible till the end of the warranty period. Dispose it into your local waste disposal system afterwards.

WARNING Packing materials are no toys! Children must not play with plastic bags! Danger of suffocation!

Bandsaw 350W
Lateral stop
Parallel stop
hex key
push stick
Instruction manual

When parts are missing or damaged, please contact your dealer.

4 SYMBOLS

In this manual and/or on the machine the following symbols are used:

	Read manual before usage		Wear noise protection
	Warning / Danger		In accordance with essential requirements of the European directive(s)
	Wear gloves		Wear eye protection

5 GENERAL POWER TOOL SAFETY WARNINGS

Read all safety warnings and all instructions. Failure to follow all warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

5.1 Work area

- Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

5.2 Electrical safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

5.3 Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used whenever conditions require will reduce personal injuries.

- Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

5.4 Power tool use and care

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or sticking of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to stick and are easier to control.
- Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could lead to a hazardous situation.

5.5 Service

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

6 ASSEMBLY

Important. Pull the mains plug before starting any servicing, adjustment and assembly work.

6.1 Saw bench assembly

- Unscrew the securing screw (8) (Fig. 4).
- Unscrew the locking handle (9) using a screwdriver (Fig. 4).
- To do this, pull the handle towards yourself and turn the screw anti-clockwise using the screwdriver.
- Remove the securing screw (7) on the saw bench (6) (Fig. 5).

- Push the saw bench (6) from the right on to the machine casing (2). Ensure that the saw band (14) is in the centre of the saw bench (6). Ensure that the graduated scale (10) on the saw bench (6) is positioned in the guide on the machine casing (2) (Fig. 6).
- Insert the securing screw (8) again and tighten it.
- Fit the locking handle (9) again and tighten it using a screwdriver (Fig. 7).
- To do this, pull the handle towards yourself and turn the screw clockwise using the screwdriver.
- Insert the securing screw (7) in the saw bench (6) again and tighten it. Ensure that the wing nut on the securing screw (7) is below the saw bench (6).

WARNING! You must remove the plate (A) via loosening the two screws (C) with the screwdriver when tiliting the working table up to 35 degree. If not, the frame (B) will interfere with the working table (Fig. a-c)

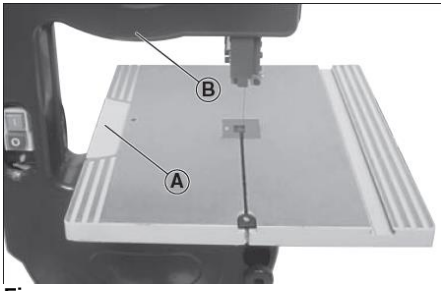


Fig. a

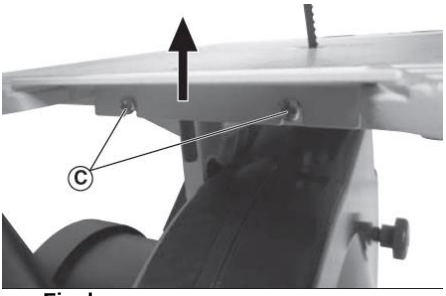


Fig. b

Fig. c

6.2 Tension the saw band

Important. If the machine is at a standstill for a lengthy period of time, the tension in the saw band (4) must be released. It is therefore important that you check the saw band tension before switching on the machine.

- First of all undo the lock nut (11) on the setting screw (12) for the top saw band roller (17) (Fig. 8).
- Turn the clamping screw (13) clockwise to tension the saw band (Fig. 9).

You can find the correct tension for the saw band (14) by pressing both saw band rollers against the saw band (14) approximately in the centre.
It should only be possible to press the saw band (14) a maximum of 1 – 2 mm (Fig. 10).
Important. If the tension is too high, the saw band (14) may tear. Danger of injury!
If the tension is too low, the saw band roller (17) may simply turn whilst the saw band (14) remains at a standstill.

- Tighten the lock nut (11) for the top saw band roller (17) again (Fig. 8).

6.3 Adjust the saw band

Important. The saw band (14) must be at the correct tension before you make any adjustments to it.

- Open the left side cover (15) by unscrewing the sealing screws (16).
- Undo the locking screw (11) on the top saw band roller (17) (Fig. 8).
- Turn the top saw band roller (17) clockwise (Fig. 1). The saw band (14) must run in the centre of the saw band rollers (17) (18) (Fig. 12). If this is not the case the angle of the top saw band roller (17) must be corrected.

In the event that the saw band (14) runs towards the rear of the saw band roller (17) (towards the machine casing (2)), turn the setting screw (12) anti-clockwise to correct it. As you do this turn the saw band roller (17) clockwise slowly and continuously to enable you to check the position of the saw band (14).
In the event that the saw band (14) runs towards the front edge of the saw band roller (17), turn the setting screw (12) clockwise to correct it. As you do this turn the saw band roller (17) clockwise slowly and continuously to enable you to check the position of the saw band (14).
After you have adjusted the top saw band roller (17) check the bottom saw band roller (18). The saw band (14) must run in the centre of this saw band roller (18) as well. If this is not the case the top saw band roller (17) must be adjusted again.
Please note that adjusting the top saw band roller (17) will not affect the bottom roller (18) until the saw band has completed several revolutions.
Tighten the lock nut (11) for the top saw band roller (17) again (Fig. 8).

- Seal the left side cover (15) and tighten the sealing screws (16) again.

6.4 Adjust the saw band guide

Important. The support and guide bearings must be adjusted each time the saw band is changed.

6.4.1 Adjust the top support and guide bearing

- Open the left side cover (15) by unscrewing the sealing screws (16).
- Remove the top front saw band guard (24) by undoing the Philips screws (Fig. 13).
- Undo the Allen screws (A) (B) (Fig. 14).
- Slide the guide bearing (19) so that the saw band (14) is in the centre of the front and the rear bearings (Fig. 15).
- Tighten the Allen screws again (A) (B) (Fig. 14).
- Now undo the screw on the top support bearing (20) (A) using an Allen key (Fig. 15).
- Slide the support bearing (20) until it is approximately 1 mm behind the saw band (14).
- Tighten the Allen screw again (A) (Fig. 15).

6.4.2 Adjust the bottom support and guide bearing

- Open the left side cover (15) by unscrewing the sealing screws (16).
- Undo the Allen screw (A) (Fig. 16).
- Slide the support and guide bearing (21) so that the saw band (14) is in the centre of the front and the rear bearings (Fig. 17).
- Tighten the Allen screw again (A) (Fig. 16).

Important. The saw band (14) must not touch the bearings when it is idling. Check the adjustment times.
After you have completed the adjustment work, fit the saw band guard (24) again on the saw band guide (22) (Fig. 13).

6.4.3 Adjust the top saw band guide

- Undo the securing screw (23).
- Lower the saw band guide (22) as far as possible on to the workpiece (approx. 2 – 3 mm over the workpiece) (Fig. 18).
- Tighten the securing screw (23) again

6.5 Adjust saw bench

- Slide the saw band guide (22) as far upwards as possible.
- Undo the securing screw (8).
- Undo the locking handle (9).
- Tile the saw bench (6).
- Adjust the required angle. (0° on the graduated scale (10) on the machine casing (2) corresponds to a 90° cut) (Fig. 19) (Fig. 20).
- Tighten the locking handle (9) again.

6.6 Change the saw band

Important. Always wear safety gloves when working on the saw band

- Remove the securing screw (7) on the saw bench (6) (Fig. 21).
- Move the saw band guide (22) as far upwards as possible.
- Undo the locking screw (11) on the top saw band roller (17).
- Open the left side cover (15) by unscrewing the sealing screws (16).
- Turn the clamping screw (13) anti-clockwise to loosen the saw band (Fig. 9). Turn the clamping screw (13) until the saw band (14) can be taken off the saw band roller (17) easily (Fig. 22).
- Take the saw band (14) off the saw band rollers (17) (18) and pull it out through the slot on the saw bench (6).
- Now place the new saw band (14) on the centre of the two saw band rollers (17) (18). Ensure that the teeth on the saw band (14) point towards the saw bench (6) (Fig. 23).
- Insert the securing screw (7) in the saw bench (6) again and tighten it. Ensure that the wing nut on the securing screw (7) is below the saw bench (6).
- Now tension the new saw band (14) as described in section “Tension the saw band”.

Criteria for selecting the correct saw band.
Narrow saw bands: Suitable for cutting tight radii.
Wide saw bands: Suitable for long straight cuts in wood. Narrow saw bands have a tendency to follow the grain in the wood.
Saw band teeth: Fine teeth produce a fine, but slow cut.
Coarse teeth produce a coarse, but fast cut.
The saw band supplied with the machine is a universal saw band.

6.7 Replace the rubber treads on the saw band rollers

- First remove the saw band (14) as described in “Change the saw band”.
- Raise the rubber tread (25) on the top saw band roller (17) using a small screwdriver and pull it off the saw band roller (Fig. 24).
- Proceed in the same way on the bottom saw band roller (18).
- Pull the new rubber treads (25) on to the saw band rollers (17) (18).
- Ft the saw band (14) again as described in “Change the saw band” and close the side cover (15).

6.8 Replace the bench insert

The bench insert (26) must be replaced if it suffers wear or damage since otherwise it will pose a great risk of injury.

- Remove the securing screw (7) on the saw bench (6).
- Unscrew the securing screw (8).
- Unscrew the locking handle (9) using a screwdriver (Fig. 7).

- Pull the saw bench (6) off the machine casing (2).
- Press the old bench insert (26) out of the saw bench (6) from underneath (Fig. 25).
- Fit the new bench insert (26) into the saw bench (6) from above (Fig. 26).
- Assemble the saw bench (6) again following the above instructions in reverse.

7 BEFORE USING THE TOOL FOR THE FIRST TIME

- Please note that the tool must be placed in a stable position on a workbench or on bolted to a solid sub-frame.
- There are holes in the machine foot (1) for securing it.
- Before starting the machine, check that all covers and safety equipment are correctly fitted.
- Ensure that the saw band (14) moves freely.
- Before you switch on the tool, ensure that all the moving parts move easily and that the saw band is installed correctly.
- Before connecting the tool to the power supply, ensure that the data on the rating plate are identical to the mains data.
- Check the workpiece you intend to cut for foreign bodies such as nails or screws and remove them if necessary.

8 OPERATION

8.1 Dust extraction

For a better dust extraction of the working surface, your machine can be connected to the ordinary vacuum cleaner for house-use. Ask your vacuum cleaner distributor for the correct dust bag connector.

8.2 Switch on/off

- Start the bandsaw by pressing the green “I” button (5) (FIG 1).
- Stop the bandsaw by pressing the red “0” button (5) (FIG 1).

Important. The bandsaw is fitted with a safety switch to prevent its restarting after a power failure.

8.3 Lateral stop

- Slide the lateral stop (29) into one of the two grooves on the saw bench (6).
- Undo the securing screw (30) on the lateral stop (29).
- Set the required angle on the scale.
- Tighten the securing screw (30) again.

8.4 Parallel stop

- Press the clamping bar (28) on the parallel stop (27) towards the outside. This will open the clamping jaws on the parallel stop (27).
- Slide the parallel stop (27) from the right or from the left on to the saw bench (6).
- Set the required dimension and press the clamping bar (28) downwards to secure the parallel stop (27) to the saw bench (6). If the tension on the clamping bar (28) is in adequate, open the clamping bar (28) again, turn it clockwise a few turns and then press the clamping bar (28) downwards again.
- Please note that the parallel stop (27) must always run parallel to the saw band (6).

8.5 Angled cuts

The saw bench (6) can be angled from 0° to 45° to the outside for making angled cuts.

- Undo the securing screw (8) and the locking handle (9) under the saw bench (6).
- Tip the saw bench (6) towards the outside until you reach the angle you require (FIG 20).
- Tighten the locking handle (9) and securing screw (8) again.

Important. To secure workpieces whose size allows to prevent them sliding away, the parallel stop (27) must always be fitted on the outside right of the saw bench (6) for making angled cuts.

9 WORKING WITH THE BANDSAW

Important. After you have completed all the adjustments, it is advisable to carry out a test cut to ensure that all the dimensions you have set are correct.

- When working with the bandsaw always move the top saw band guide (22) as close as possible to the workpiece.
- Press the workpiece as flat as possible on to the saw bench (6) to prevent the saw band (14) from jamming.
- Guide the workpiece at a uniform feed speed so that the saw band (14) can cut through the material easily and without jamming.
- Use the parallel stop (27) or lateral stop (29) for all cuts on which they can be used.
- Always guide your workpiece from the longest side whilst sawing it.
- Always complete cuts in one operation wherever possible.
- If you have no choice but to pull back a workpiece, you must first switch off the bandsaw and wait for the saw band (14) to reach a standstill.

9.1 Making longitudinal cuts (Fig. 28)

Cut a workpiece longitudinally.

- If possible fit the parallel stop (27) to the lefthand side of the saw bench (6).
- Lower the saw band guide (22) as far as possible on to the workpiece.
- Switch on the bandsaw.
- Press the workpiece against the parallel stop (27) with your right hand. Press the workpiece flat on to the saw bench (6) with your other hand.
- Now Slide the workpiece against the saw band (14) at a uniform feed speed.

9.2 Making cross cuts (Fig. 29)

Cut a workpiece laterally.

- Push the lateral stop (29) into one of the two grooves on the saw bench (6) and set the required angle on the scale on the lateral stop (29).
- Lower the saw band guide (22) as far as possible on to the workpiece.
- Switch on the bandsaw.
- Press the workpiece firmly against the lateral stop (29) with your right hand. Press the workpiece flat on to the saw bench (6) with your other hand.
- Now Slide the workpiece against the saw band (14) at a uniform feed speed.

9.3 Making angled cuts (Fig. 30)

Cut a workpiece longitudinally at an angle.

- Undo the securing screw (8) and the locking handle (9) under the saw bench (6).
- Tip the saw bench (6) towards the outside until you reach the angle you require.
- Tighten the locking handle (9) and securing screw (8) again.
- If the workpiece size allows, fit the parallel stop (27) on the outside right of the saw bench (6).
- Lower the saw band guide (22) as far as possible on to the workpiece.
- Switch on the bandsaw.
- Press the workpiece against the parallel stop (27) with your left hand. Press the workpiece flat on to the saw bench (6) with your other hand.
- Now Slide the workpiece against the saw band (14) at a uniform feed speed.

9.4 Making double mitre cuts (Fig. 31)

Angled cutting of a workpiece.

- Undo the securing screw (8) and the locking handle (9) under the saw bench (6).
- Tip the saw bench (6) towards the outside until you reach the angle you require.
- Tighten the locking handle (9) and securing screw (8) again.
- Push the lateral stop (29) into one of the two grooves on the saw bench (6) and set the required angle on the scale on the lateral stop (29).
- Lower the saw band guide (22) as far as possible on to the workpiece.
- Switch on the bandsaw.
- Press the workpiece firmly against the lateral stop (29) with your right hand. Press the workpiece flat on to the saw bench (6) with your other hand.
- Now Slide the workpiece against the saw band (14) at a uniform feed speed.

9.5 Making free-hand cuts (Fig. 32)

The most outstanding feature of a bandsaw is its facility that enables you to complete free-hand cuts.

- Lower the saw band guide (22) as far as possible on to the workpiece.
- Switch on the bandsaw.
- Press the workpiece flat on the saw bench (6) and slide it slowly up to the saw band (14).
- Use a low feed speed for all free-Hand cuts since this will enable you to follow the required line more easily.
- in some cases you may have to make a coarse cut approximately 5 – 10 mm away from the actual cutting line.
- If the curve you wish to cut is too tight for the saw band (14) you are using, you must first make auxiliary cuts up to the front edge of the curve so that these pieces of wood will fall away when you have sawn the final radius.

10 MAINTENANCE AND CARE

Attention ! Before performing any work on the equipment, pull the power plug.

10.1 Cleaning

- Keep the ventilation slots of the machine clean to prevent overheating of the engine.
- Regularly clean the machine housing with a soft cloth, preferably after each use.
- Keep the ventilation slots free from dust and dirt.
- If the dirt does not come off use a soft cloth moistened with soapy water.

Never use solvents such as petrol, alcohol, ammonia water, etc. These solvents may damage the plastic parts.

10.2 Lubrication

Oil the saw band guides (19) (20) (21) (top and bottom) at regular intervals..

11 TECHNICAL DATA

Mains voltage	230 V~
Mains frequency:	50 Hz
Rating:	350 W
Saw band speed	15,50 m/s
Blade length:	1425 mm
Blade width:	6.25 mm
Max. Cutting depth:	80mm
Max. Cutting width:	190mm
Bench size:	300 x 300mm
Mitre:	0°-45°
Weight:	19 kg

12 NOISE

Noise emission values measured according to relevant standard. (K=3)

Acoustic pressure level LpA	68 dB(A)
Acoustic power level LwA	84 dB(A)

ATTENTION! Wear hearing protection when sound pressure is over 85 dB(A).

13 SERVICE DEPARTMENT

- Damaged switches must be replaced by our after-sales service department.
- If the connecting cable (or mains plug) is damaged, it must be replaced by a particular connecting cable which is available from our service department. Replacement of the connecting cable must only be carried out by our service department (see last page) or by a qualified person (qualified electrician).

14 STORAGE

- Thoroughly clean the whole machine and its accessories.
- Store it out of the reach of children, in a stable and secure position, in a cool and dry place, avoid too high and too low temperatures.

15 WARRANTY

- This product is warranted for a 36-month period effective from the date of purchase by the first user.
- This warranty covers all material or production flaws excluding : batteries, chargers, defective parts subject to normal wear & tear such as bearings, brushes, cables, and plugs, or accessories such as drills, drill bits, saw blades, etc. ; damage or defects resulting from maltreatment, accidents or alterations; nor the cost of transportation.
- Damage and/or defects resulting from inappropriate use also do not fall under the warranty provisions.
- We also disclaim all liability for any bodily injury resulting from inappropriate use of the tool.
- Repairs may only be carried out by an authorised customer service centre for Powerplus tools.
- You can always obtain more information at the number 00 32 3 292 92 90.
- Any transportation costs shall always be borne by the customer, unless agreed otherwise in writing.
- At the same time, no claim can be made on the warranty if the damage of the device is the result of negligent maintenance or overload.
- Definitely excluded from the warranty is damage resulting from fluid permeation, excessive dust penetration, intentional damage (on purpose or by gross carelessness), inappropriate usage (use for purposes for which the device is not suitable), incompetent usage (e.g. not following the instructions given in the manual), inexpert assembly, lightning strike, erroneus net voltage. This list is not exhaustive.
- Acceptance of claims under warranty can never lead to the prolongation of the warranty period nor commencement of a new warranty period in case of a device replacement.
- Devices or parts which are replaced under the warranty therefore remain the property of Varo NV.
- We reserve the right to reject a claim whenever the purchase cannot be verified or when it is clear that the product has not been properly maintained. (Clean ventilation slots, carbon brushes serviced regularly, etc.).
- Your purchase receipt must be kept as proof of date of purchase.
- Your appliance must be returned undismantled to your dealer in an acceptably clean state, (in its original blow-moulded case if applicable to the unit), accompanied by proof of purchase.

16 ENVIRONMENT

Should your appliance need replacement after extended use, do not discard it with the household rubbish but dispose of it in an environmentally safe way.
Waste produced by electrical machine items should not be handled like normal household rubbish. Please recycle where recycle facilities exist. Check with your Local Authority or retailer for recycling advice.

17 DECLARATION OF CONFORMITY

VARO N.V. **Vic. Van Rompuy N.V.** Joseph Van Instraat 9 BE2500 Lier BELGIUM, declares that,

product : Bandsaw 350W
trade mark : POWERplus
model : POWX180

is in conformity with the essential requirements and other relevant provisions of the applicable European Directives, based on the application of European harmonized standards. Any unauthorized modification of the apparatus voids this declaration.

European Directives (including, if applicable, their amendments up to the date of signature);

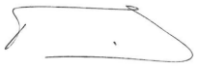
2011/65/EU
2006/42/CE
2014/30/CE
2000/14/EC Annex V LwA
Measured 81dB(A)
Guaranteed 84dB(A)

European harmonized standards (including, if applicable, their amendments up to the date of signature);

EN61029-1 : 2009
EN61029-2-5 : 2011
EN55014-1 : 2017
EN55014-2 : 2015
EN61000-3-2 : 2014
EN61000-3-3 : 2013

Keeper of the Technical Documentation : Philippe Vankerkhove, VARO – Vic. Van Rompuy N.V.

The undersigned acts on behalf of the company CEO,



Philippe Vankerkhove
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Lier, 10/04/2020