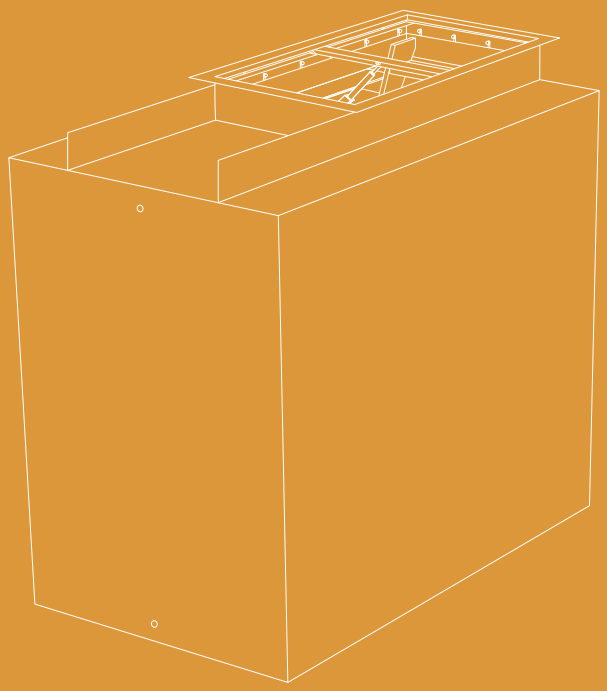
VINORAGE™



VINORAGE WINE CELLAR INSTALLATION GUIDE

FOR MODEL 700-1000 BOTTLES

Please read the entire manual before starting work!

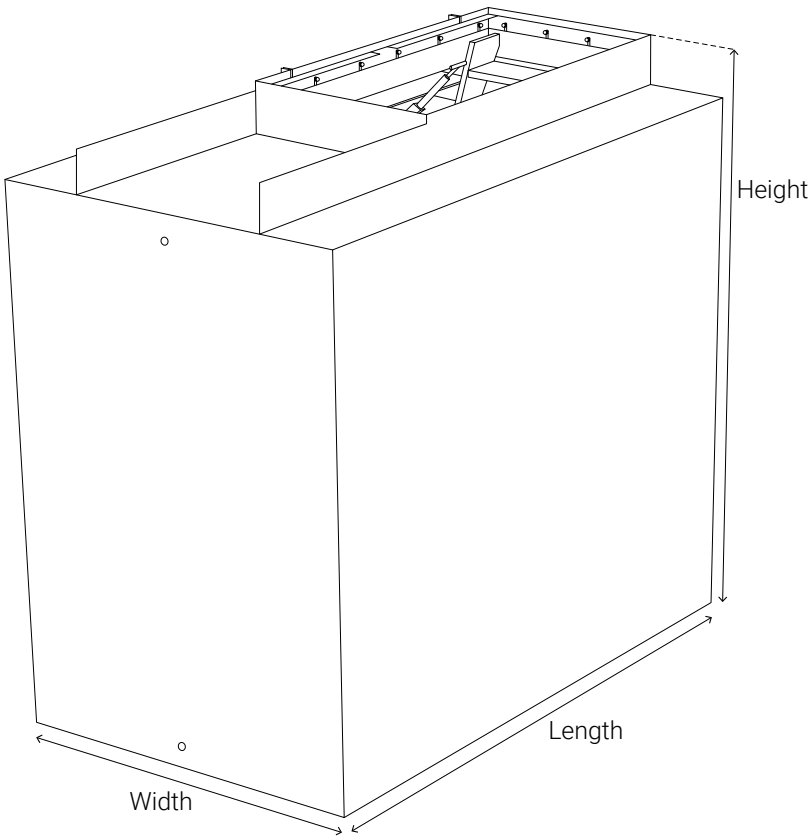
A Vinorage wine cellar should be installed on a flat floor surface – either ground or basement level – so the wine cellar can utilize the temperature from the ground. Placing the wine cellar in the ground means that a constant optimal temperature can be maintained. This technique is called passive cooling. In addition, choose a location with the option to run ventilation hoses all the way to the outer wall so that the air in the cellar can circulate.

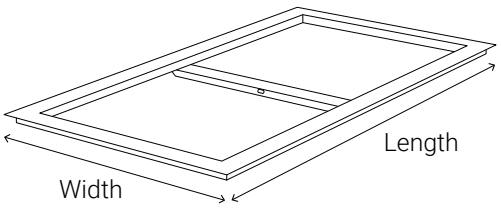
WINE CELLAR DIMENSIONS

The following table contains the outer dimensions for the wine cellar for 700-1000 bottles. These outer dimensions include ventilation connection and reinforcement.

The dimensions also serve as minimum requirements for excavation dimensions, but remember that a foundation may be laid under the wine cellar. In addition, an approx. 5 mm (±3 mm) margin between the cellar and finished floor level is required (see steps 4 and 9).

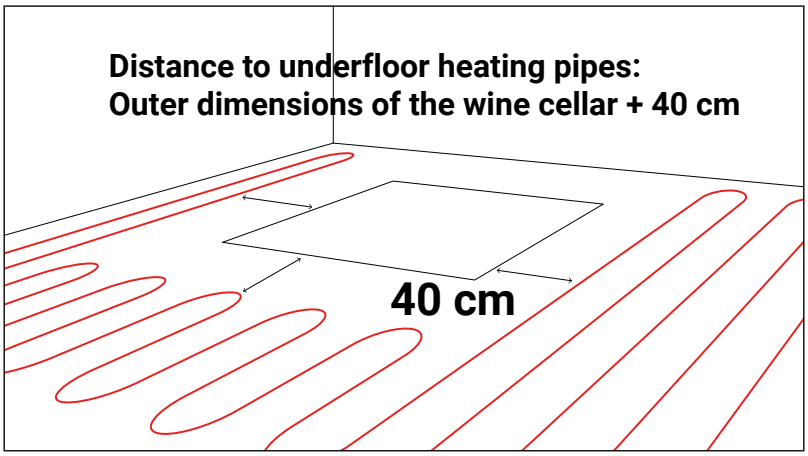
	Wine cellar outer dimensions (mm)			**Door size (mm)**		**Weight (kg)**
	Length	Width	Height	Length	Width	
Wine cellar for 700-1000 bottles	2700	1600	2400	1530	830	1200





1. BEFORE YOU START

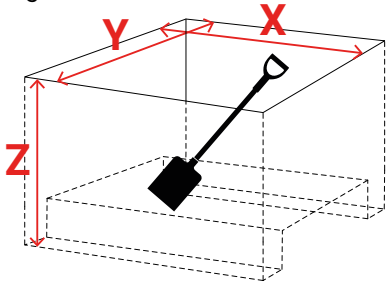
Make sure that any underfloor heating pipes can have a distance of at least 40 cm from the outer dimensions of the wine cellar as underfloor heating can affect the temperature in the cellar. It is also recommended to avoid placing the wine cellar in a location with direct sun.



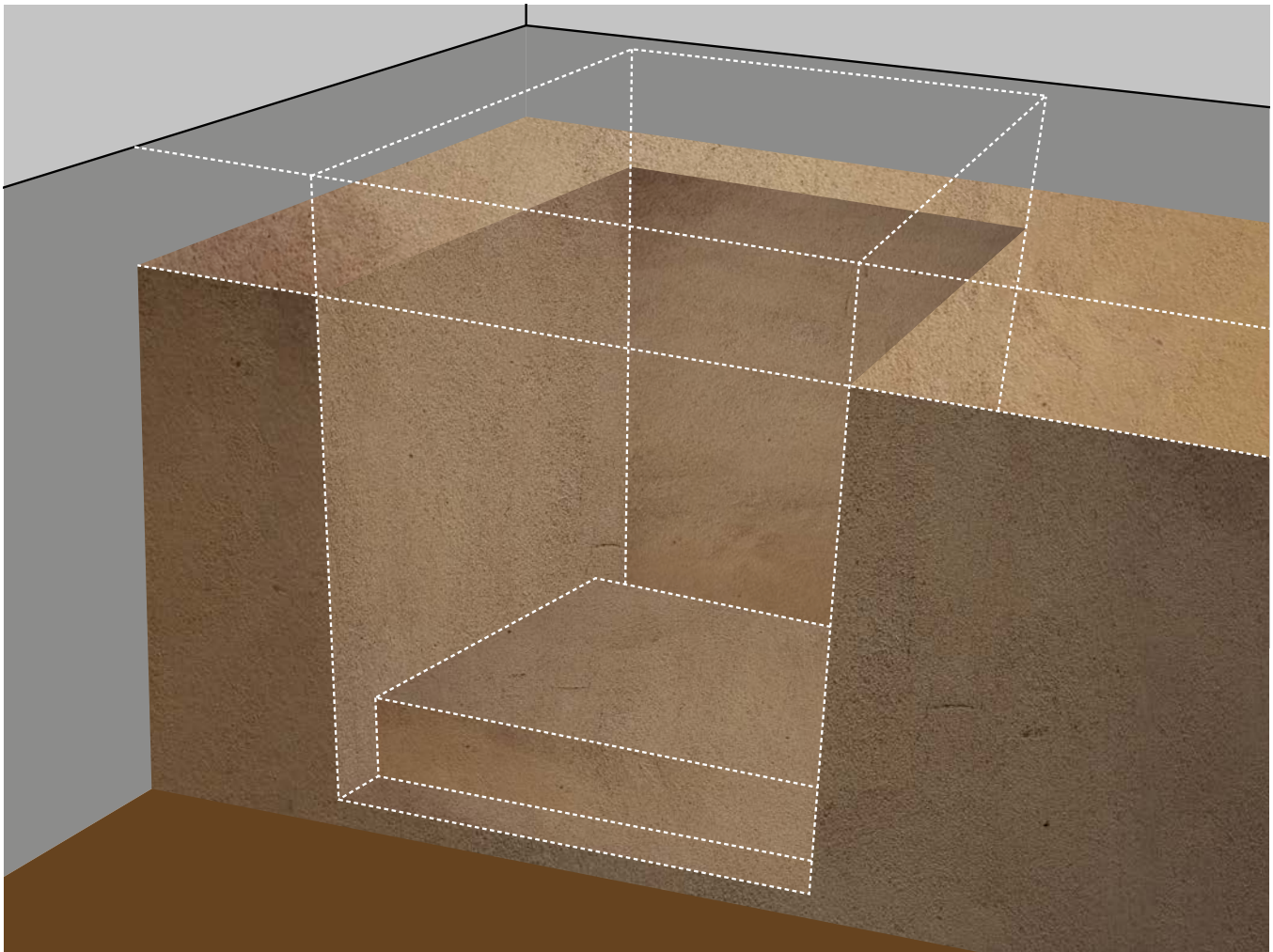
2. EXCAVATE THE REQUIRED SPACE AND LEVEL THE SOIL/SAND

We recommend digging a hole 100 cm wider/longer than the width and length of the wine cellar so that there is about 50 cm of air all the way around the wine cellar. In addition, dig a trench for ventilation and electricity, depending on where it needs to go.

X = wine cellar width + 500 mm = 2000 mm
Y = wine cellar length + 500 mm = 3000 mm
Z = wine cellar height + 5 mm + 500 mm cast foundation = 2855 mm
ATTENTION! Z-height is measured from finished floor level



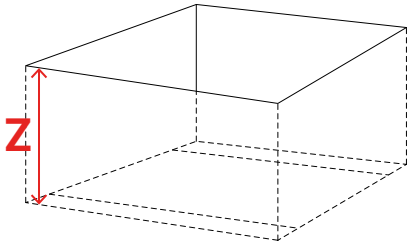
A foundation at both ends of the wine cellar is needed. Pour a foundation of approximately 20 cm in width and 50 cm in depth. The foundation must go in about 10 cm and support the wine cellar at each end, but no more than 15 cm due to the bracing under the cellar.

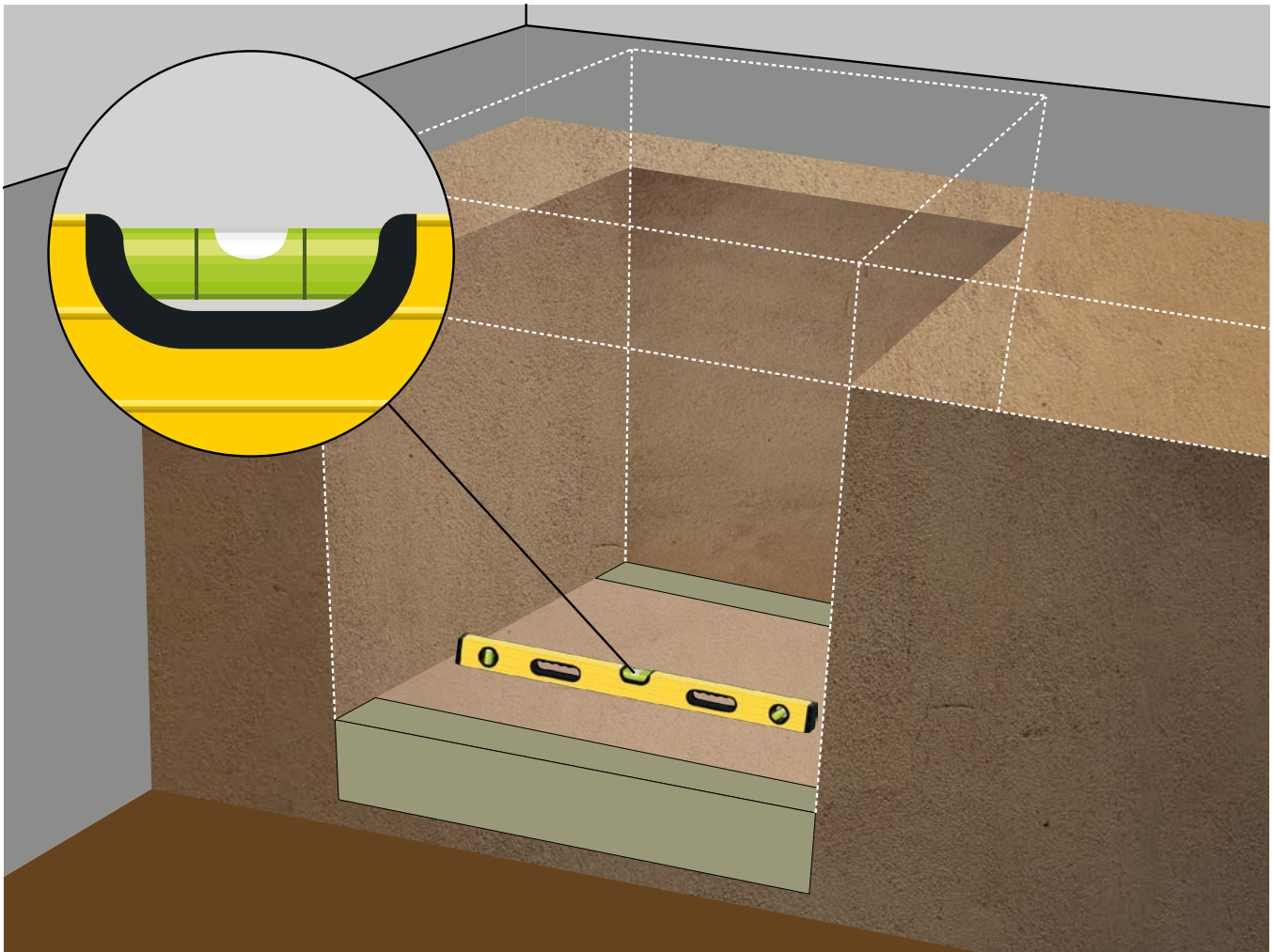


3. CHECK HEIGHTS

When the cast foundations have hardened, check that the foundations are level and that the depth is correct. Then level the soil/sand between the 2 foundations. If the soil/sand has been loosened, it is important to tamp it thoroughly so that the wine cellar is well supported.

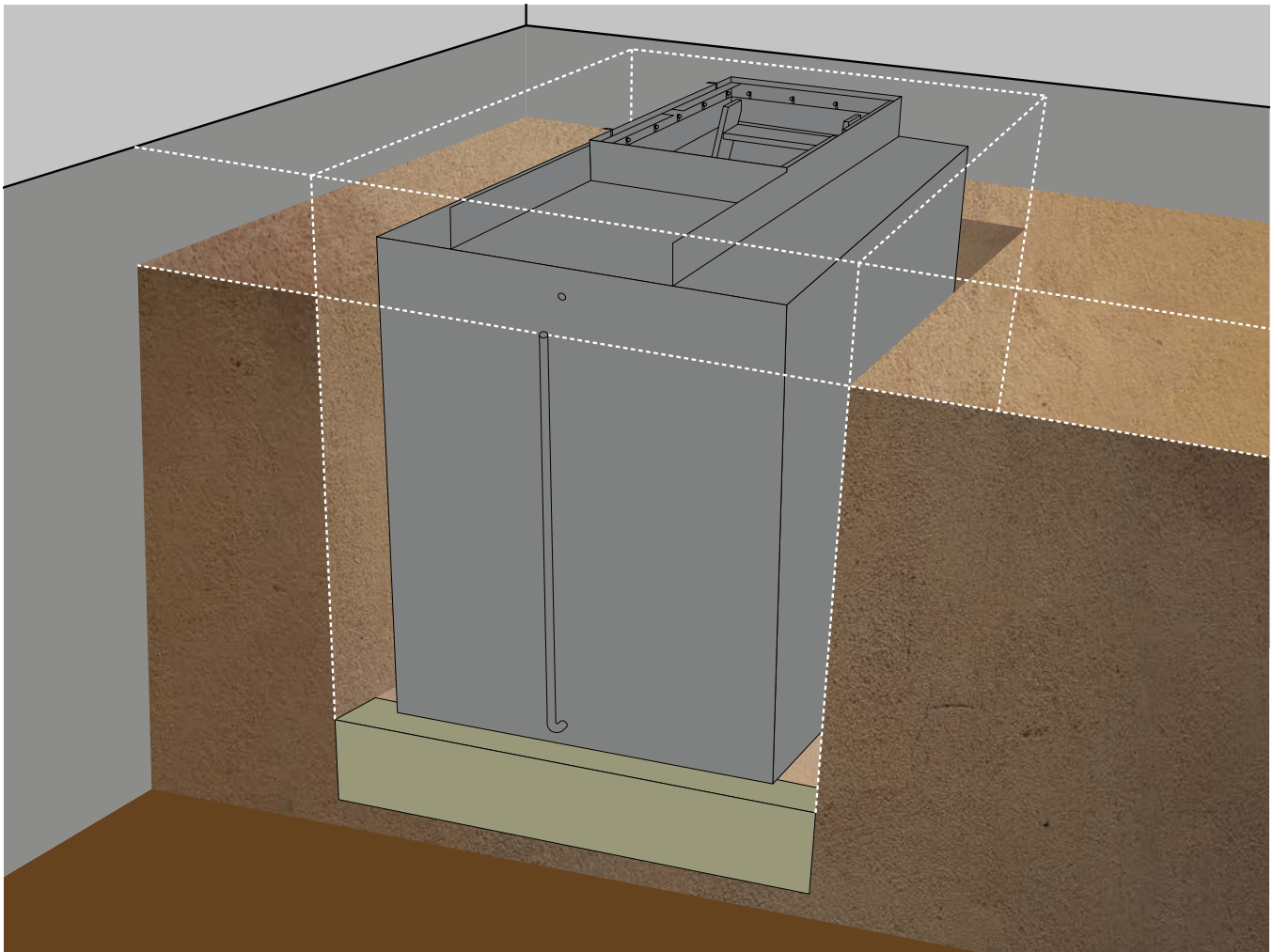
Z = wine cellar height + 5 mm = 2355 mm
ATTENTION! Z-height is measured from finished floor level





4. INSERTING THE WINE CELLAR

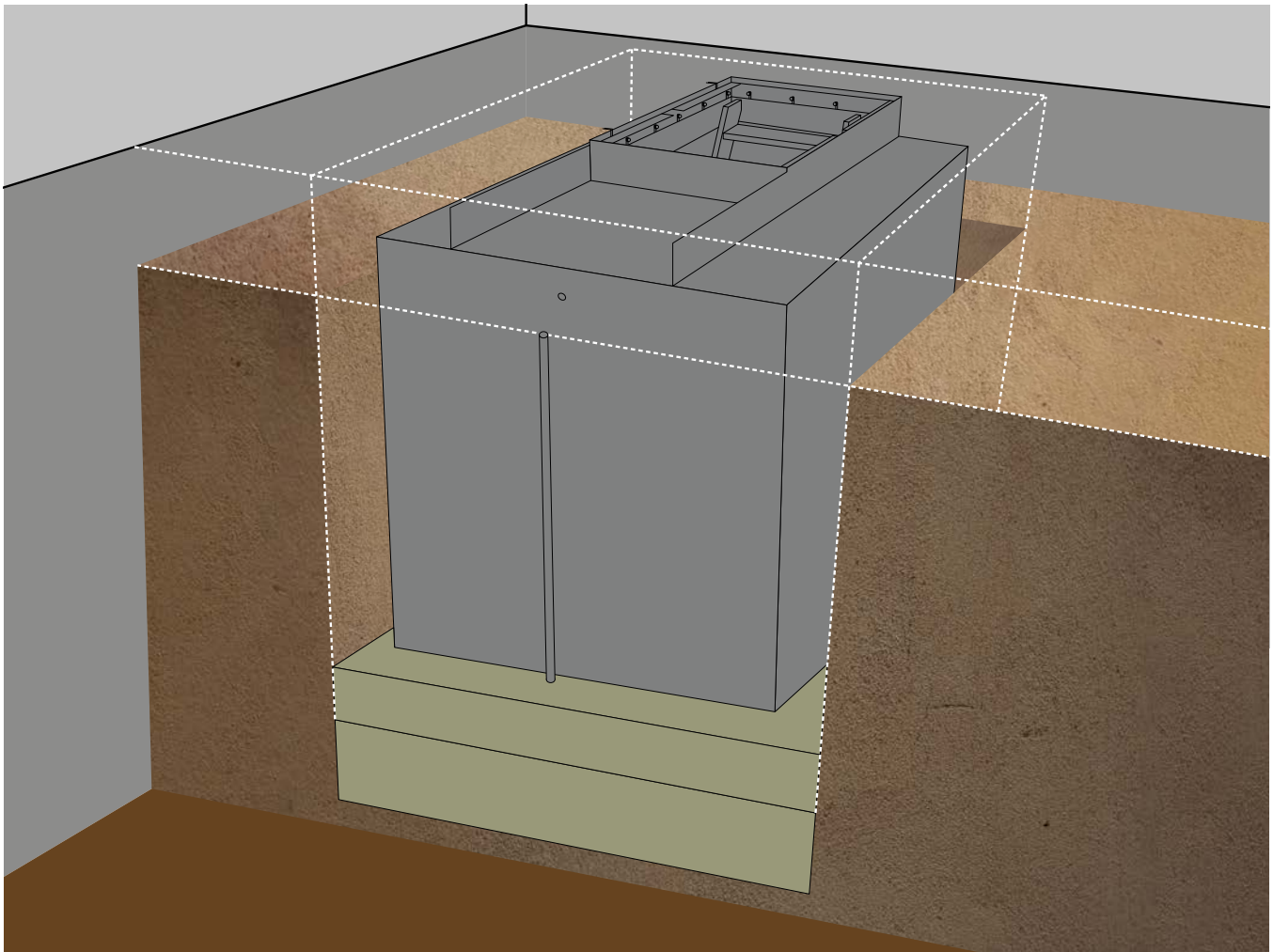
The wine cellar must be inserted so that it is approximately 5 mm (±3 mm) below the finished floor level **without** the glass door attached. The finished floor level is defined as the finished surface/ covering, such as a wooden floor or tiles (*see more details in step 9*).



5. CASTING FOR PROTECTION AGAINST BUOYANCY

Now that the wine cellar is placed on the plinth, a 500x500 mm ring foundation must be poured all the way around the wine cellar to secure the cellar against buoyancy.

It is important to have this ring foundation cast. If this concrete ring is not poured, the large volume of the wine cellar will cause natural buoyancy, which will push the wine cellar up to the surface and cause cracks in the finished floor.

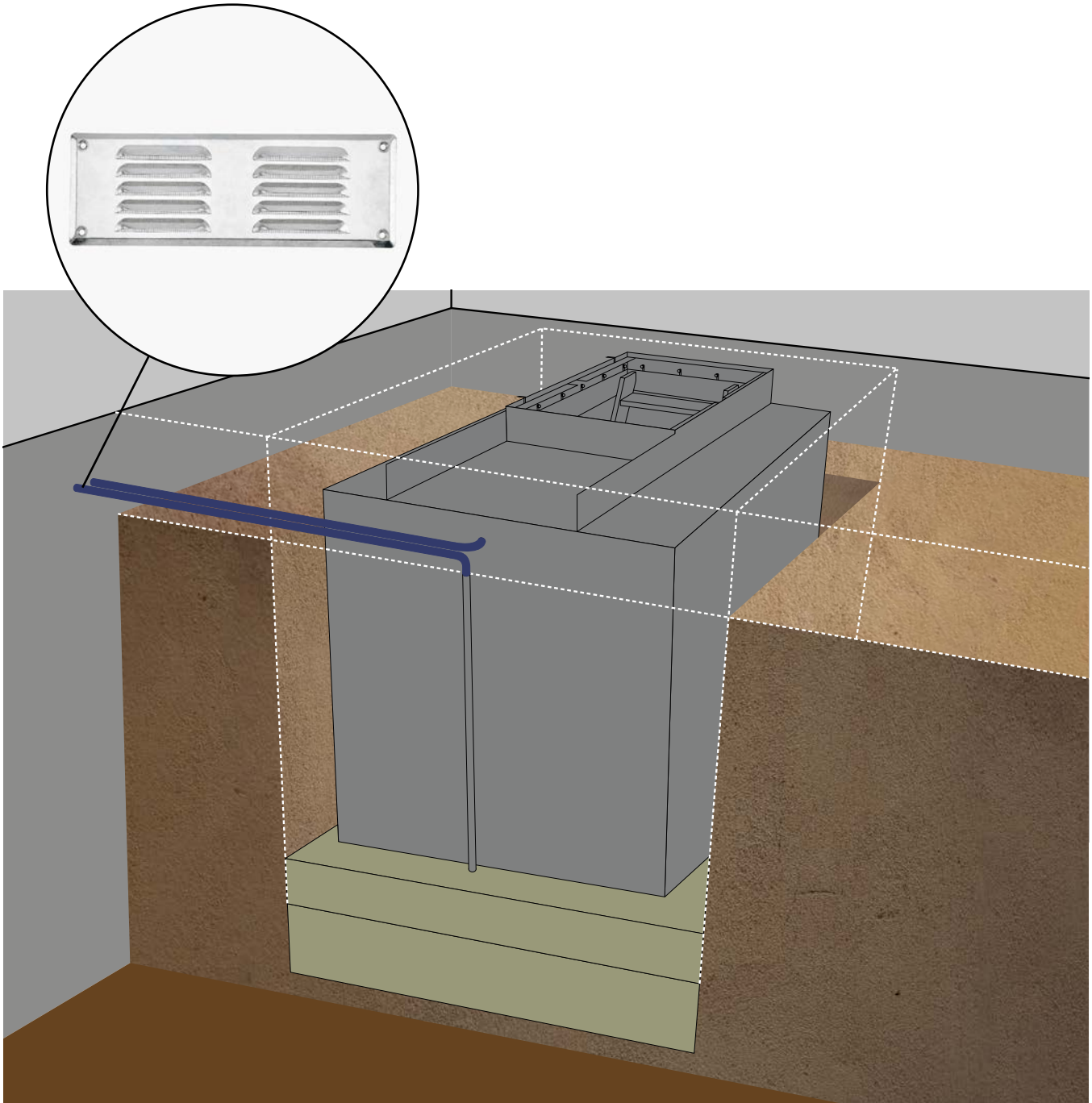


6. CONNECTING VENTILATION

The wine cellar is prepared with connectors for ventilation, where standard gray PVC pipes with Ø50 mm circumference are applied.

The pipes are connected to the dedicated openings in the wine cellar and run all the way to an external wall. Here they are attached and hidden behind the ventilation grill that comes with the wine cellar delivery.

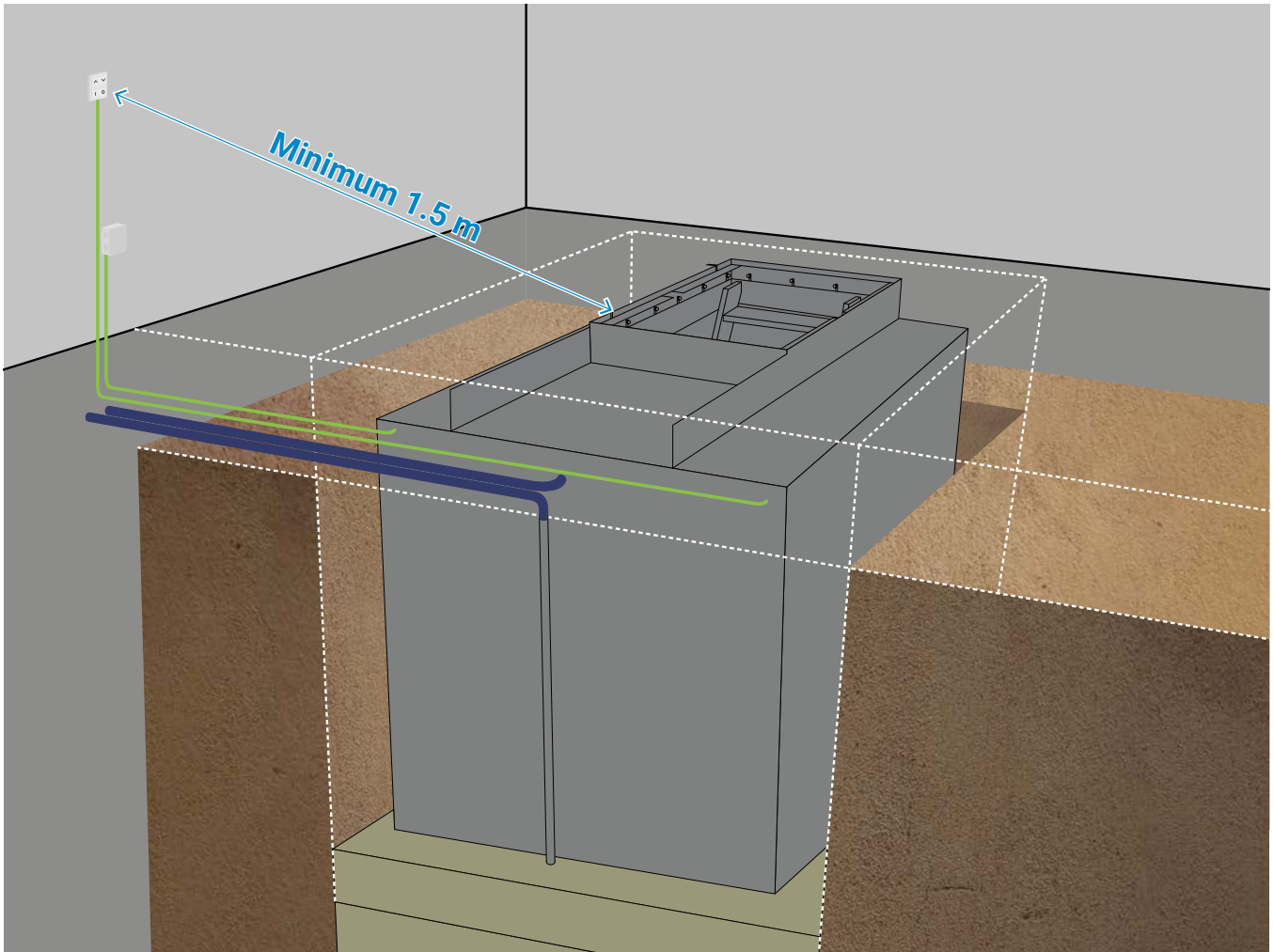
The purpose of the ventilation pipes is to ensure that the air in the wine cellar is constantly replaced. The wine cellar uses passive cooling and ventilation without the use of energy. It is therefore not a burden on the environment or electricity bills.



7. CONNECTING THE POWER CABLE

An electrical cable that supplies power to the Vinorage cellar is also included. Power is used to open and close the glass door and control the included LED lights.

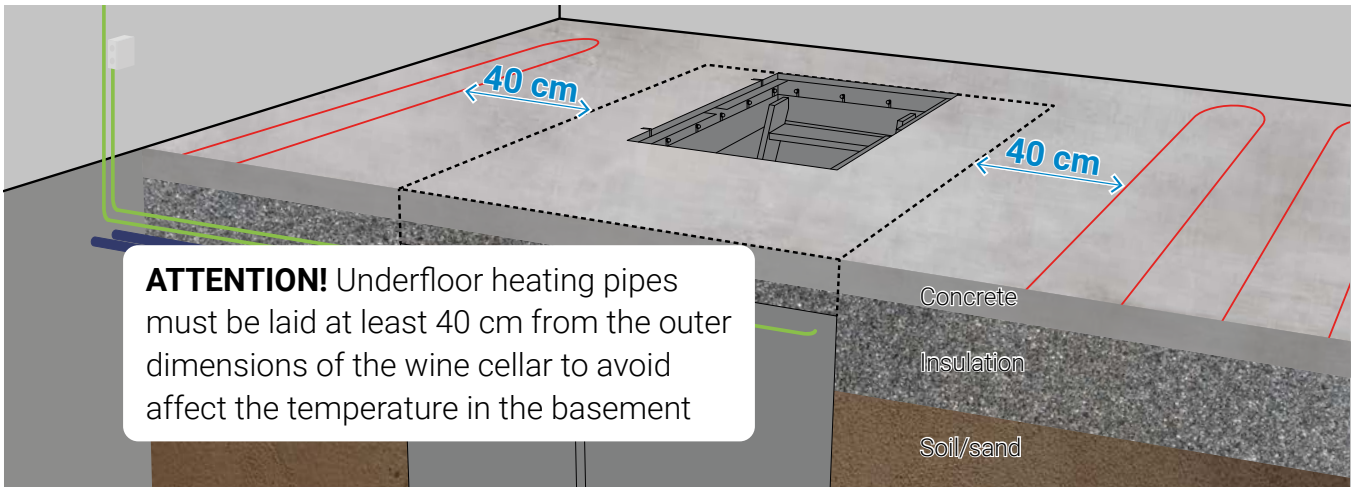
The power cable must be connected to the nearest 220V-240V power outlet and the wine cellar. The cable for the LED light and for opening and closing the wine cellar is routed to the wall and connected to a switch (FUGA low current) from which the cellar is to be operated. This switch must be located at least 1.5 meters from the wine cellar door (safety distance to the wine cellar).



8. FILLING THE CAVITY AROUND THE WINE CHAIN

All the necessary elements of the wine cellar are now connected and the cellar is ready for filling around the cellar walls. The filling ensures that the wine cellar remains in a correct position.

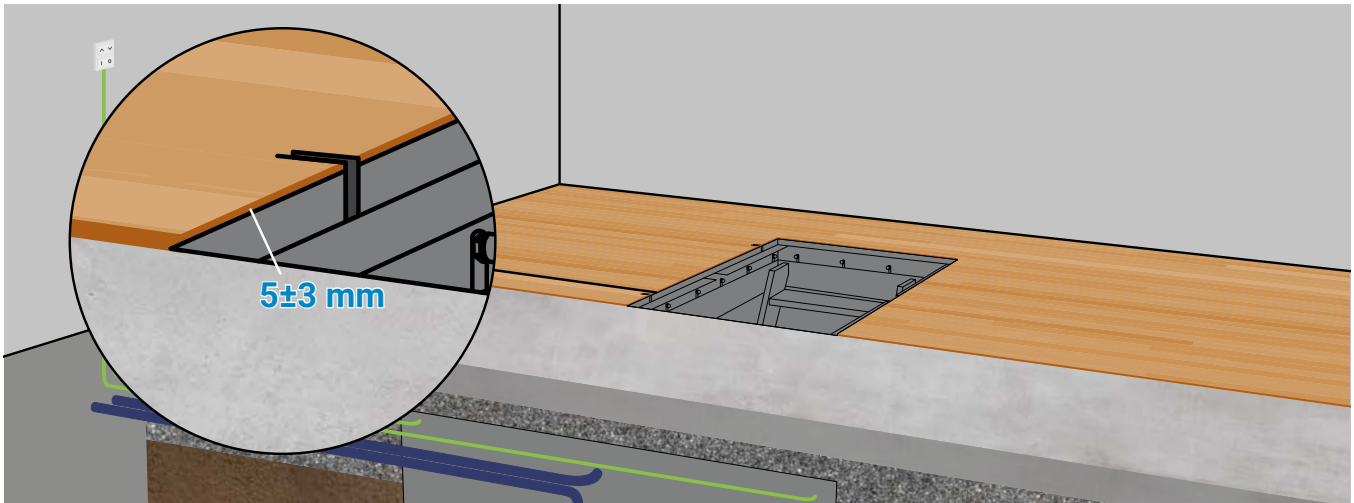
A typical installation of a Vinorage wine cellar involves embedding the cellar in a layer of soil or sand. Once the soil/sand is filled in around the wine cellar, insulation material can be installed. This is followed by a concrete layer in which underfloor heating pipes can be laid (at least 400 mm from the wine cellar).



ATTENTION! Underfloor heating pipes must be laid at least 40 cm from the outer dimensions of the wine cellar to avoid affect the temperature in the basement

9. FLOORING AROUND THE WINE CELLAR

The wine cellar is now installed and all necessary installations are connected. A margin has previously been left (in step 3) for the floor height, where the cellar is approximately 5 mm (±3 mm) below the finished floor level. This ensures that the floor can be laid at the same level as your new Vinorage wine cellar. Once the desired floor has been laid, the glass door to the wine cellar can be installed.

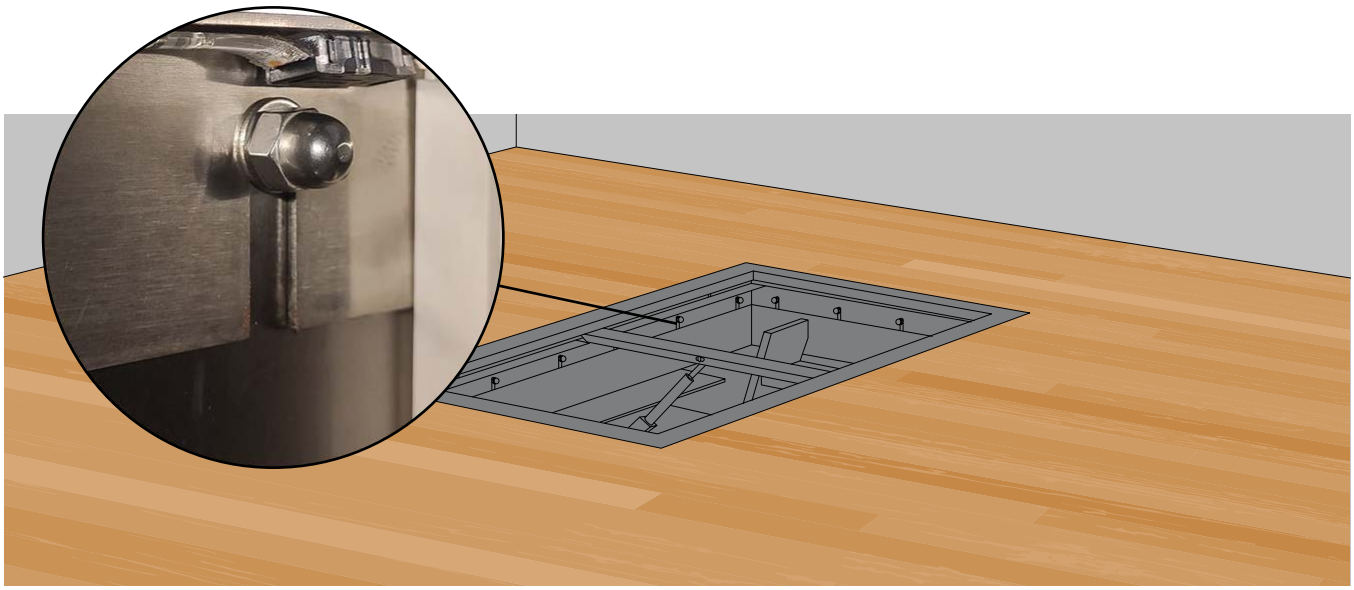


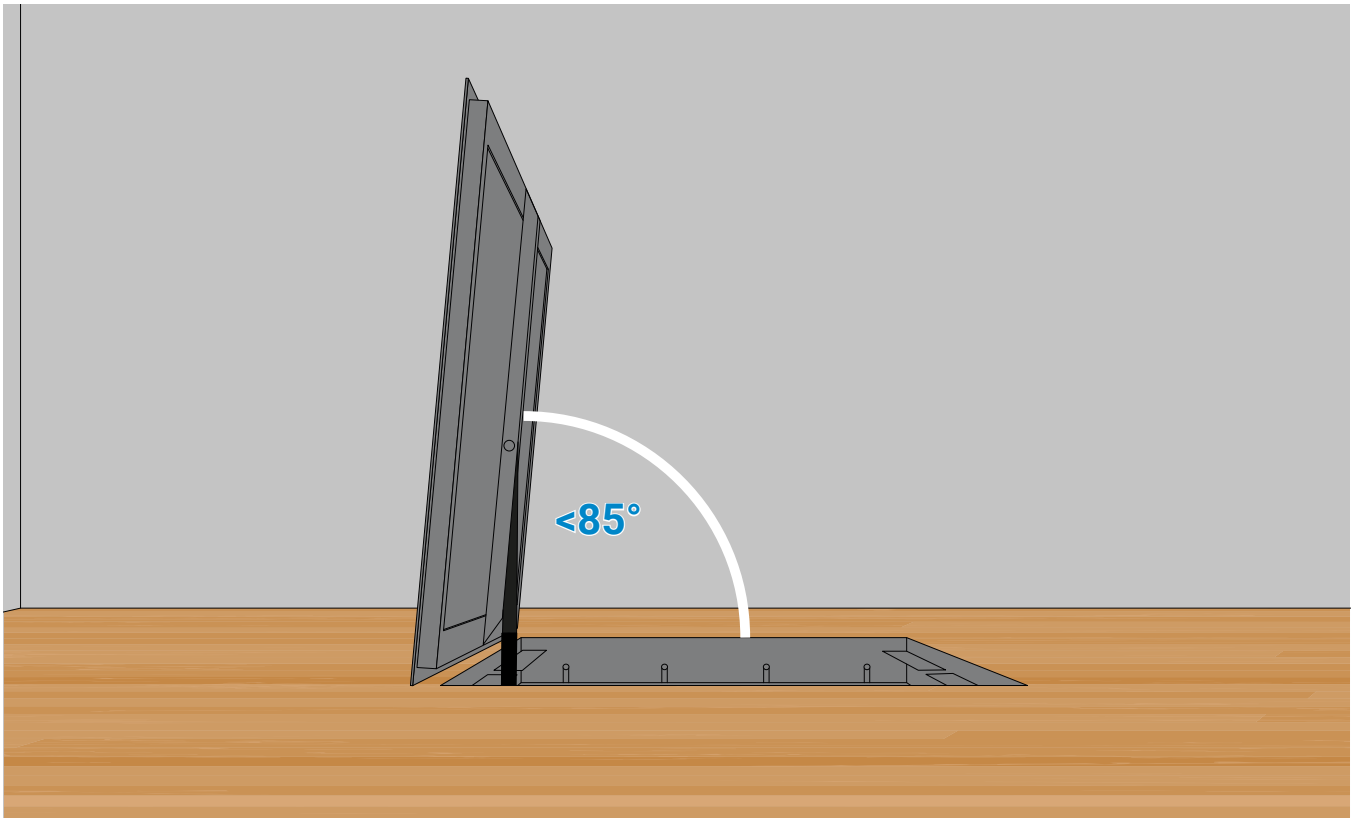
10. GLASS DOOR INSTALLATION

The door consists of a stainless steel frame that contains a floor glass that can support two adults. The glass is already mounted in the steel frame, making installation easy.

The height of the glass door can be adjusted via long cut-out holes in the steel frame that the door rests on. In this way, the glass door can be adjusted to fit the chosen floor height.

The electric motor is mounted inside the wine cellar and attached to the door. Finally, the motor is adjusted so that the door is at approximately 85 degrees (but not more than 85) to the floor when the piston is fully extended.





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