INSTALLATION MANUAL

FIRE INSTALLATION INSPECTION

CAUTION!

Before starting the installation, make sure that clean water is flowing through the fire line.
All particles such as sand, gravel, welding slag, or construction debris that may be present in the piping system must be thoroughly cleaned.

If your system includes a fire pump or collector, ensure that an appropriate filter is installed at the inlet section.
Starting the installation before cleaning the line may cause remaining foreign materials in the system to pass through the valve, hose reel, and internal components of the cabinet, potentially damaging the seals and inner mechanisms.

Any failures or damages arising from unclean piping systems are not covered by the BESYANGIN® warranty.

SURFACE-MOUNTED CABINET INSTALLATION

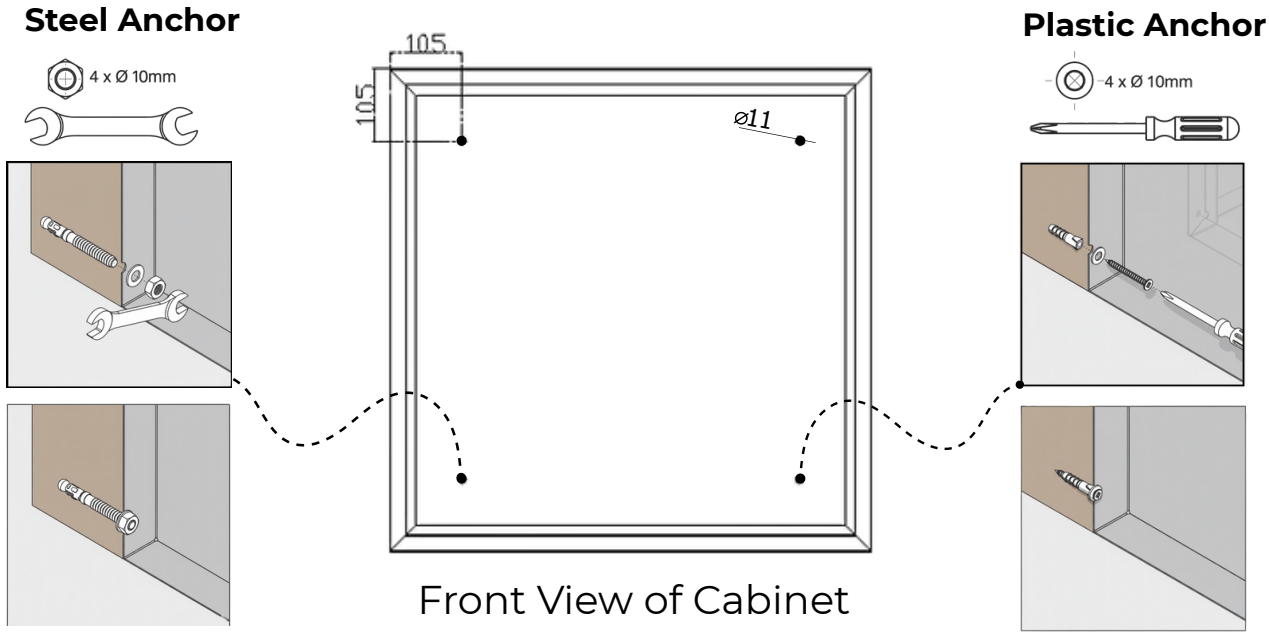
CAUTION!

Surface-mounted models of BESYANGIN® fire hose cabinets are identified with the "SU" suffix in their product codes.
Example: BYD-10-TK-SA-1P30H / BYD-10-DIK-SU-2P30H

1. Before installation, position the cabinet level and ensure that it fits flush against the wall surface.
2. Each cabinet body includes four Ø11 mm mounting holes prepared for installation.
3. Depending on the wall type, use the following appropriate fixing sets:

- 4 pcs Ø10 mm plastic anchor set (for concrete or brick walls)
- 4 pcs Ø10 mm steel anchor set (for industrial or heavy-duty applications)

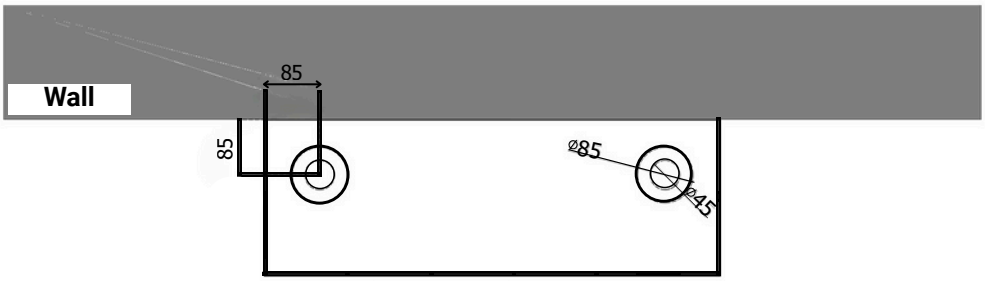
Securely fasten the cabinet to the wall.
During installation, ensure that the door opening direction (right/left) and water connection side (top/bottom) are consistent with the system layout.
After all connections are completed, it is recommended to perform a leakage test on the valve and hose line.



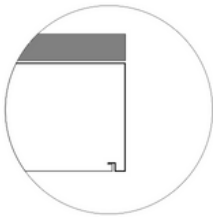
The mounting hole centers of BESYANGIN® fire cabinets with BYD code are positioned as shown in the diagram above, at a distance of 105 mm from the cabinet edges.

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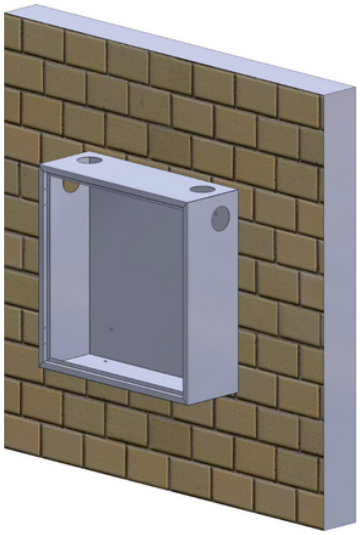
SURFACE-MOUNTED CABINET INSTALLATION



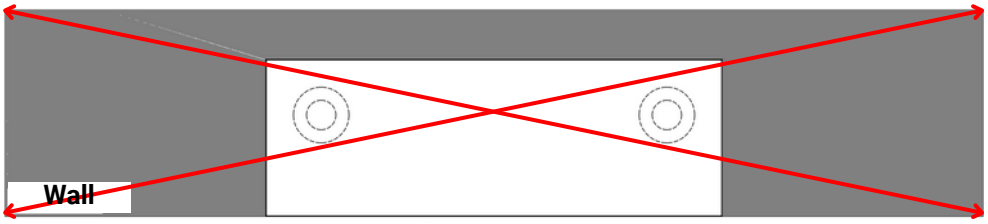
Top View



Surface-Mounted Cabinet and Door Detail

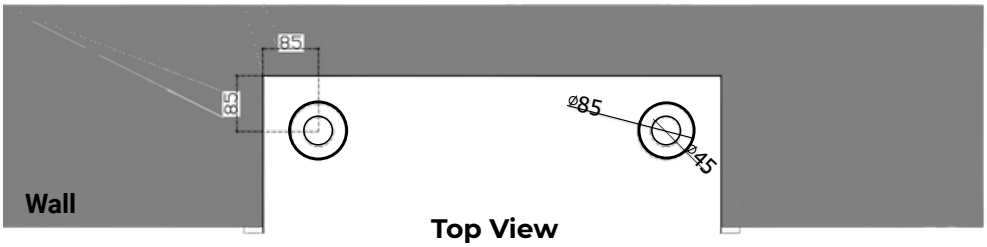


Incorrect Application

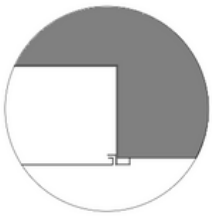


Top View

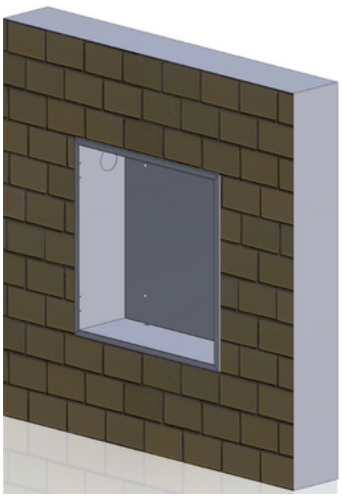
RECESSED (FLUSH-MOUNTED) CABINET INSTALLATION



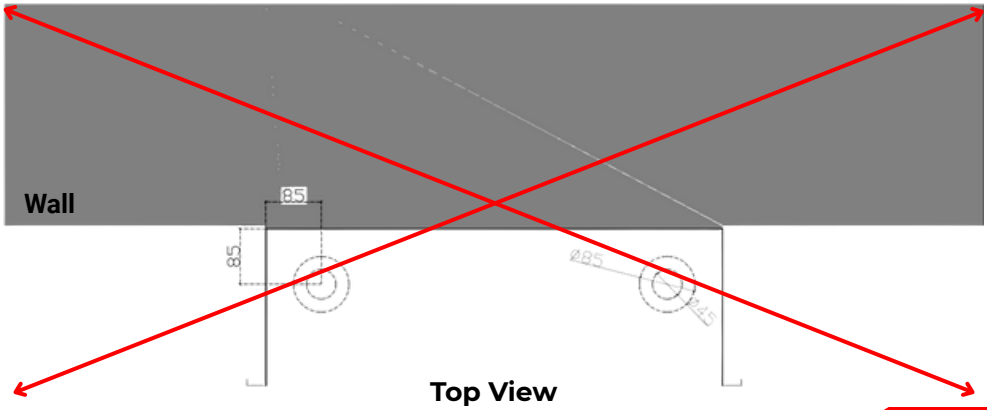
Top View



Recessed Cabinet and Door Detail



Incorrect Application

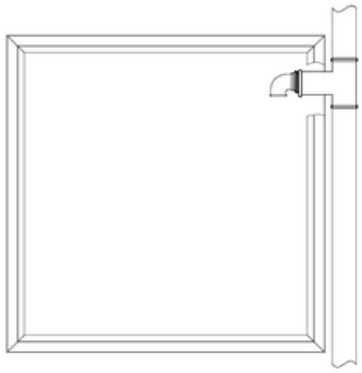


Top View

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1” VALVE AND REEL INSTALLATION – For BYD BESYANGIN®Cabinets

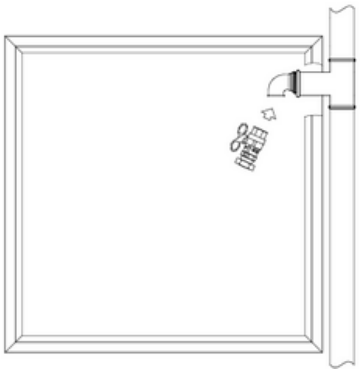
1



Elbow Installation

- According to the water connection direction, install the elbow fitting onto the fire pipeline when necessary.
- The connection must be aligned parallel to the pipeline and suitable for the valve outlet direction.
- Use a sealing gasket or PTFE (Teflon) tape to ensure leak-tightness during the connection.

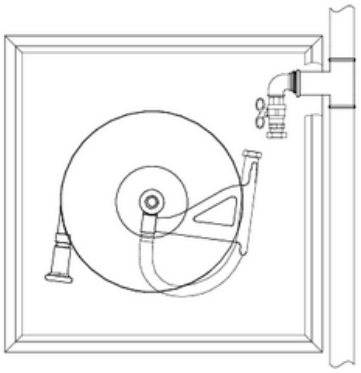
2



Valve Installation

- Carefully place the valve onto the pre-installed elbow fitting.
- Avoid damaging the valve threads. After hand-tightening, use an appropriate wrench to secure the connection without applying excessive torque.
- The valve handle should remain accessible, with the open/close direction clearly visible.

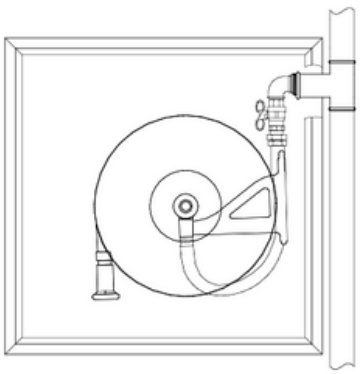
3



Reel Installation

- Insert the hose reel assembly inside the cabinet as shown in the diagram.
- The reel axis must be aligned with the valve outlet, ensuring smooth and unrestricted reel rotation.
- Tighten all mounting bolts evenly and make sure the reel is balanced horizontally.

4



Union Coupling Connection

- Connect the valve outlet union to the reel inlet union as illustrated.
- The connection must be tight and leak-free.
- After assembly, the hose should unwind freely from the reel, and once the valve is opened, water flow must be continuous and uniform.

⚠️ Installation Precautions

- Do not mix up the direction of elbow and valve connections.
- The outer body of the valve must remain outside the cabinet, and all sealing surfaces must be clean and intact.
- The reel direction must allow the hose to be pulled out easily.
- Do not reverse the union fittings or over-tighten the threads.
- After installation, perform a leak test and inspect all joints for potential leakage.

✅ Correct Installation Result

- The hose unwinds smoothly from the reel.
- Water flow is steady and uninterrupted.
- Valve and reel alignment are precise.
- The system operates in full compliance with EN 671-1 standards.

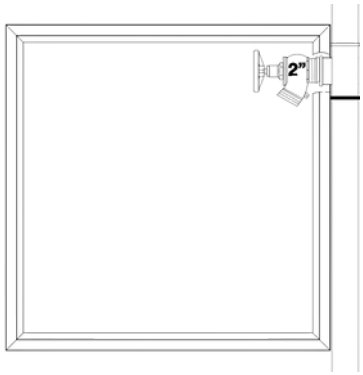
❌ Incorrect Installation Result

- If the elbow is mounted in the wrong direction, water flow is obstructed.
- If the valve is installed at an angle, the union may leak.
- If the reel is mounted unevenly, the hose may jam or fail to rotate.
- If the union is not properly seated, water leakage will occur.

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2” VALVE AND REEL INSTALLATION – For BYD BESYANGIN® Cabinets

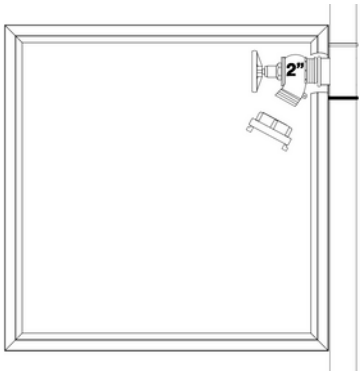
1



Valve Installation

- Install the valve using the appropriate connection opening, ensuring that the outer body remains outside the cabinet and aligns with the fire pipeline.
- The connection axis must be parallel to the pipeline and perfectly sealed against leakage.

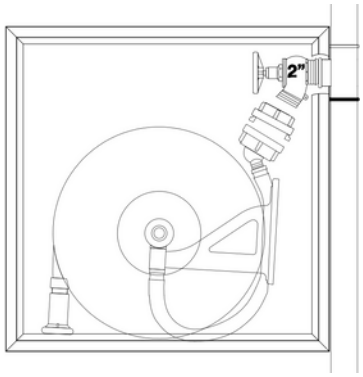
2



Union Installation

- After completing the valve installation, carefully attach the union fitting to the valve outlet.
- Do not damage the threads; use PTFE (Teflon) tape or an appropriate sealing compound to ensure leak-tightness.

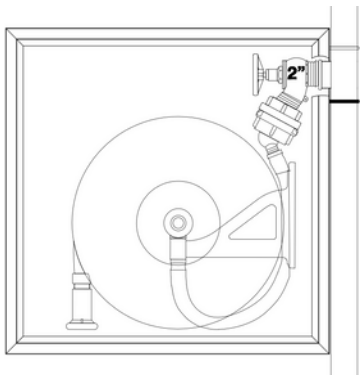
3



Reel Installation

- Place the hose reel assembly inside the cabinet as illustrated.
- During installation, make sure that the reel axis is aligned with the valve outlet and that the reel can rotate freely without obstruction.
- Ensure that all mounting bolts are properly tightened and that the reel is securely fixed.

4



Connecting the Unions

- Join both union ends as shown in the diagram.
- The connection must be tight and leak-free.
- After installation, the reel must rotate freely in the hose winding direction.

⚠ Important Precautions

- The valve must be installed in the correct direction along the fire line and be fully leak-proof.
- The reel direction must allow the hose to unwind easily during fire operation.
- Threads must not be damaged; avoid cross-threading or over-tightening.
- After installation, perform a leakage test on all connections.
- The valve handle must be clearly positioned and easily accessible, with the opening direction visibly indicated.

✅ Correct Installation Result

When the valve, union, and reel system are properly aligned:

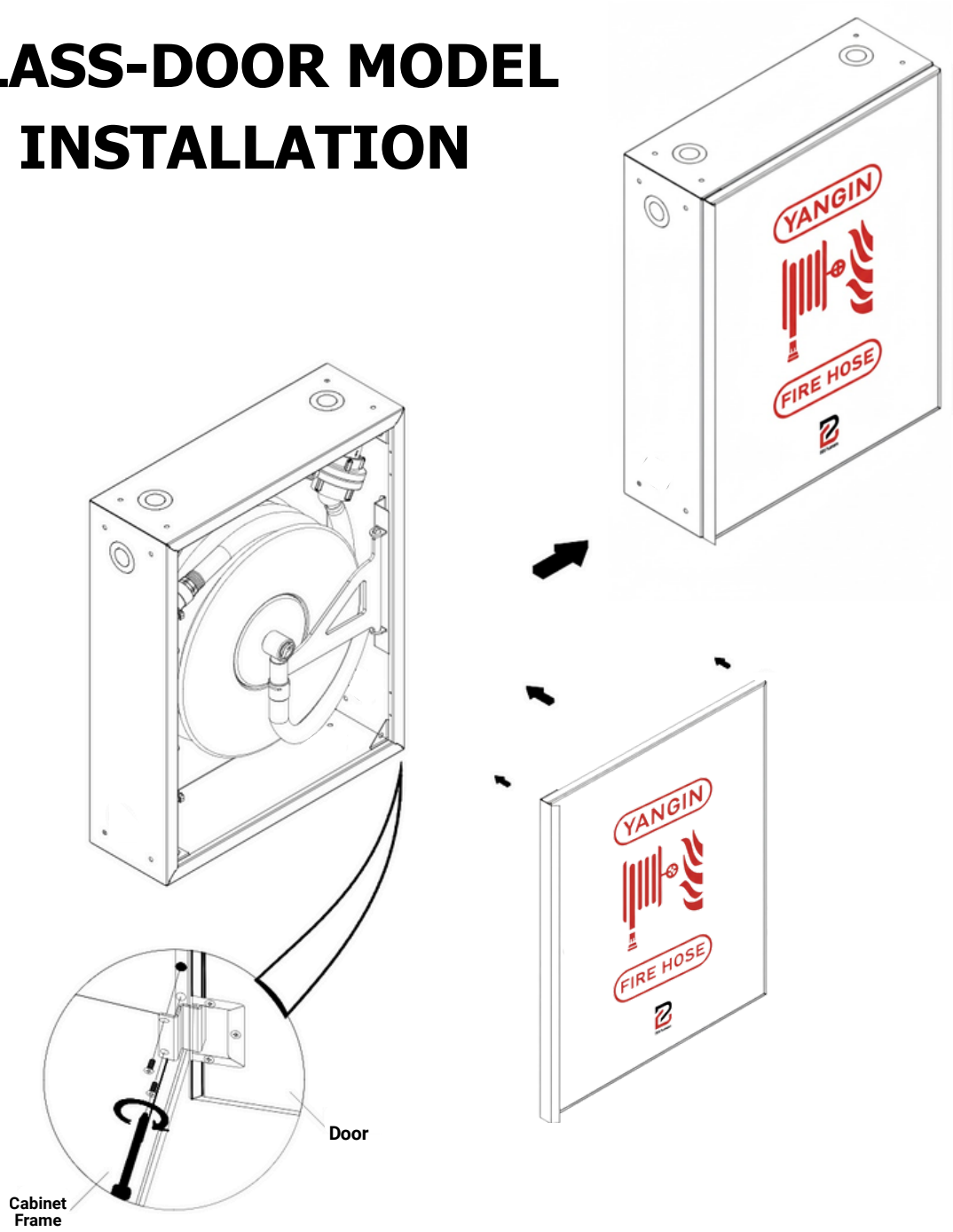
- The hose unwinds smoothly from the reel.
- Water flow is steady and uninterrupted.
- All joints are completely leak-tight.
- The system operates in full compliance with EN 671-1 standards.

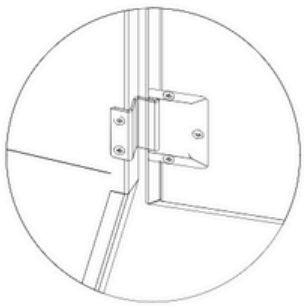
❌ Incorrect Installation Result

- If the valve is installed at an angle, the hose may twist or kink.
- If the union is not fully tightened, water leakage may occur.
- If the reel axis is misaligned, the hose may jam or fail to rotate.

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GLASS-DOOR MODEL INSTALLATION





- Align the pre-installed hinges on the door with the screw holes on the cabinet frame, as shown in the diagram, and secure the door in place.
- During installation, make sure that the hinges are positioned in the correct orientation and that no part of the hinge or screw comes into contact with the glass surface.
- After installation, the door should open and close smoothly, and its alignment with the frame should appear precise and even.

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