# BRATŘI HORÁKOVÉ S.r.o.



## CHILL AND FREEZER SLIDING DOORS

Chill sliding doors are used for closing refrigerated spaces down to temperatures as low as - 2°C; freezer sliding doors are used for closing freezer units down to temperatures as low as - 30°C.

Doors manufactured by our company can be supplied to open on the right side or on the left side. Their construction ensures that the required temperature differences are maintained, that there are no thermal bridges, and that hygiene standards are upheld.

### **Door Wings**

In the basic version, the door wing is covered with 0,8 mm thick, white lacquered, aluminum sheet metal. The doors are also available covered with 0.6 mm thick stainless steel metal sheets. The core is made of polyurethane foam (PUR) that adheres to the metal sheet and thus creates a very light self-supporting panel with excellent insulation properties.

The overall thickness of a door wing is 75 mm for chill doors and 125 mm for freezer doors. The rubber sealing system is fitted with a special plastic profile that ensures a precise fit precise fit and can easily be replaced.

The door is fitted with a safety opening system that allows persons, accidentally locked inside, to open the door from within.

The freezer door wing is heated along its entire perimeter by a conductor fitted inside a plastic lath. The power supply to the electric box (on the side of the wing) is a movable spiral conductor.





#### **Door Rails**

The door rail on a sliding door consists of a special eloxal coated aluminum profile, plastic ramps, and rubber stops at either end.

Along the track profiles move plastic track rollers that are fixed on the door wings. There are ramps in the track profiles that ensure a well fitted closure of the door wings.

#### **Door with Door Frames**

Doors are supplied with the following door frame types: PUR Door Frame or "P" Door Frame (Note: the "P" Door Frame cannot be used for freezer doors). Door frames are used for fitting the doors into corresponding openings in PUR panel walls or for fitting the doors into brick partitions.

**PUR Door Frames** have a construction similar to that of a door wing – i.e., it is filled with a hard polyurethane foam and fitted with a load-bearing steel frame with reinforcements to allow the mounting of curtains and safety lock latches. The construction consistently prevents heat loss. There are no thermal bridges. The freezer door frames, including the door thresholds, are fitted with a heating cable to prevent the wing gasket from freezing to the door frame. To ensure the proper function of the unit under special conditions, e.g. a closed space with inside temperatures below -30°C, it is necessary to heat not only the door frame but also the door wing beneath its gasket.

Heated doors must be fed by an independent 230V/50Hz line that depends on the size of the door. The input for heating is between 140 and 180 W. If the wing is heated along with the door frame, the power input is between 280 and 360 W.

The "P" Door Frames consist of a plastic profile upon which are placed the wing hinges and a closing latch.

Both door frame types, PUR and "P", can be fitted in the 75 mm or 125 mm panel wall, and it is also possible to manufacture door frames for different thicknesses of the PUR panel walls, per the customer's requirements.

Doors for constructed walls are used for units insulated by the construction (e.g. brick walls). These doors have only the external doorframe mounted into the wall by anchor elements. These doors require additional insulation to connect the door frame to the wall.

#### **Doors with Door Frame Panels**

These 800 mm width doors are used when the door frame panel is a fixed part of the chiller or freezer unit.

#### Threshold

Typically, doors are made with a recessed threshold and are sealed "to the threshold". Doors with door frames have thresholds made of stainless steel profiles (a part of the door frames) that fit with the lower part of the door wing when it is closed. For doors with door a frame panel, the threshold is part of the panel. The threshold on a freezer door is always heated; the heating conductor is hidden in the threshold cover sheet. If the door is to be fitted with recessed threshold, it is necessary to leave a space (groove) where the door threshold will be.

It is recommended to consider an access ramp for doors with non-recessed thresholds.

Only chill doors can be supplied without a threshold. When the door is closed, the lower sealing fits tightly to the floor.

#### Accessories fitted to the hinged door

All these types of doors can be fitted with PVC or air curtains for the reduction of heat loss. Energy can be saved by fitting the door with an end switch (i.e, a switch to turn off the ventilator on the refrigerating machine, the air curtain, or inside light). When requested by the

customer, we can supply a door wing with a peek-through window made of insulated double glass or triple glass. The door can also be fitted with a protection frame and railing.

## **Basic dimensions of sliding doors**

Most frequently used CHILL SLIDING doors							
Door clearance (wxh)	800x2000	1000x2000	1200x2000	1400x2000			
Door thickness in mm	75						
Weight of wing in kg, lacquered Al sheet metal	34.2	38.9	44.0	49.7			
Weight of wing in kg, stainless steel version	44.4	51.3	58.7	66.6			

Most frequently used FREEZER SLIDING doors						
Door clearance (wxh)	800x2000	1000x2000	1200x2000	1400x2000		
Door thickness in mm	125					
Weight of wing in kg, lacquered Al sheet metal	40.9	46.7	53.0	59.7		
Weight of wing in kg, stainless steel version	51.1	59.1	67.6	76.6		
Power input for heating of the door frame (W)	169+165.7	157.5+154.8	147.6+145.3	204.5+201.5		

We also offer sliding doors with machine drives, which are convenient to use and increase the speed of door operation.

More information can be sent upon request. The Sales and Technical department in Prague can provide information about other available dimensions and types of hinged doors.

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