

# Installation manual

## SCHOTT Termofrost® Retrofit AGD3 / T.AGD3



## Thank you

Congratulations and thank you for choosing a SCHOTT Termofrost® products.

We appreciate your trust in our high-quality products and services. Before starting each installation, please read the following instructions carefully and prepare the installation accordingly.

In case you need further support for installation please contact SCHOTT here:

mail: **nicolas.muller@schott.com**

phone: **+33 (0) 6 75 95 92 05**

## General

This manual covers the installation of SCHOTT Termofrost® **AGD3** and **TADG3**.

Before using the product, please continue reading the instructions covered in this installation manual and save it for future reference.

The manual is valid for the SCHOTT Termofrost® **AGD3** and **TADG3** only.

## Content

This manual describes the process of installing SCHOTT Termofrost® **AGD3** and **TADG3** and provides additional product related information.

1. General information
2. Content of a typical delivery
3. Recommended tools and accessories for the installation
4. Preparation of the installation
5. Installation
6. Controll of installation
7. Care and cleaning
8. Troubleshooting and problem solving
9. Spare parts
10. Position of serial numbers

## Disclaimer

READ THIS DOCUMENT BEFORE USING THE PRODUCT. IMPROPER USE OF THE PRODUCTS CAN CAUSE DAMAGE TO EQUIPMENT OR PROPERTY, SERIOUS PERSONAL INJURY, OR DEATH.

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS DOCUMENT ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS DOCUMENT ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

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## 1. General

### Basic product description

- An AGD3 and TAGD3 system typically consists of one frame and 2 doors
- Ergonomically-shaped aluminum or stainless steel handle for intuitive opening of doors
- Safe and smooth door closing movements due to gravity-closing mechanism
- Hold open function for safe and easy shelf filling
- Options:
  - SCHOTT CONTURAN® (anti-reflective glass)
  - Fluorescent T5 tube lighting
  - LED lighting (many color temperatures)
  - Price supports

## 2. Content of the delivery

Together with each SCHOTT Termofrost® AGD3 and TAGD3 retrofit set the following components are delivered

- Doors and frames
- Bottom and upper adapters
- L-console with screws, nuts and washers (delivered only for some fridges)
- Overview showing which frame and adapters is to be used for which line
- Accessories for the finishing on the sides: L-plates, plastic plates, tape

### Optional

- Lights (T5 or LED)
- Price holders

## Warnings

### Handling of Schott Termofrost glass doors

Take care when handling the Schott Termofrost doors. Do not place the glass doors on the floor without protection. When the door is placed on the floor, the **gravity system on the bottom must not touch the ground** to avoid the risk of damaging it.

### Protection of the cabinet during drilling / cutting processes

During drilling works that are done inside of the cabinet the **goods (if present) must be protected to avoid metal spans falling on them**. Schott recommends the usage of a protective film that serves as a curtain between the working areas and the inside of the cabinet.

Furthermore the **magnetic gasket should be protected by using the blue protective foam**, that can be clipped around the bottom gasket. Without this protection the metal spans will get stuck to the magnetic gasket and get rusty in the humid environment.














### Electrical installation instructions

Before installation, maintenance or cleaning, always first switch off or disconnect the power and follow appropriate safety procedures.

Installations and assemblies must be carried out by a professional electrician in accordance with the applicable and appropriate electrical codes and the instructions provided by SCHOTT.

### 3. Recommended tools and accessories for the installation

These parts are NOT part of the delivery

Name	Illustration
Hexagon Wrench 4 mm	
Measuring tape	
Rivets Alu Ø4,8x10 (4 rivets per system) Rivets Alu Ø4,8x25 (8 rivets per system) Rivets Alu Ø3x10 (6 rivets per line)	
Self drilling screws Ø4,8x30 (3 screws per system) Self drilling screws Ø3,9x15 (3 screws per system)	
<b>Important Remark:</b> Screws are not recommended by Schott but can be used in some particular cases!	
Riveter (electrical if possible!)	
Drilling machine	
Water level with electronic display	
Angle grinder	
Metal saw	
Classical tool box with hammer, cutter, file, etc.	
Ladders (the height of the cabinets is approx. 2,20m)	
Cleaning sponges and glass cleaner	
Hoover for cleaning the cabinets (-> metal spans !)	

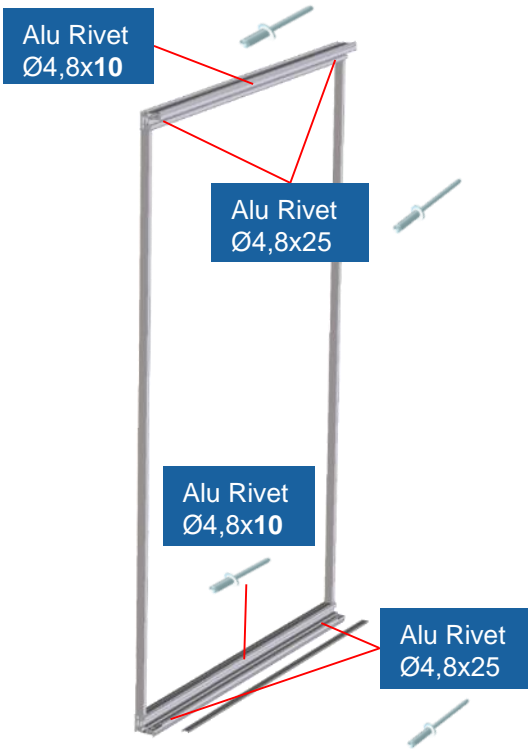


3. Recommended accessories for the installation

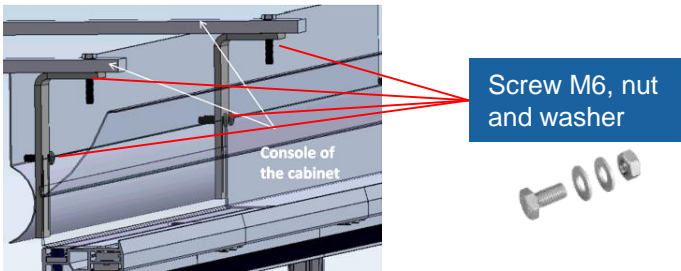
Fixation of the upper adapter to the cabinet. Check the drawing provided by Schott.  
**Rivets not provided.**



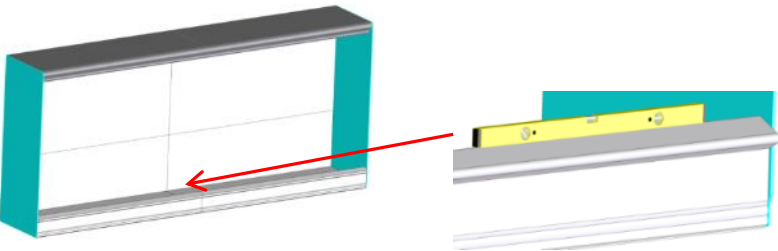
Fixation of the frame to the adapters.  
**Rivets not provided.**



Fixation of the upper adapter to the console of the cabinet. Check the drawing provided by Schott  
**Screws, nut and washer provided.**



4. Installation | Preparing the cabinet



**\*Warning:** Do move the cabinet upwards with care to avoid breaking the tubing at the back of the cabinet!

Check that the lower side of the cabinet is in correct horizontal position  
Use a water level tool to verify

Most of cabinets have feet which can be used to adjust the level and inclination. Use tools like monkey wrenches or universal lock pliers and control again with water level.




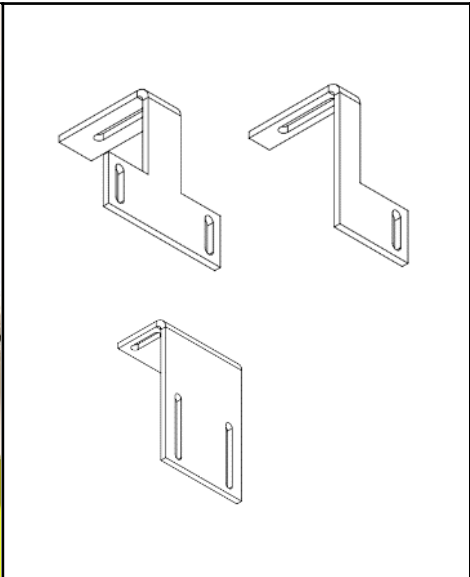
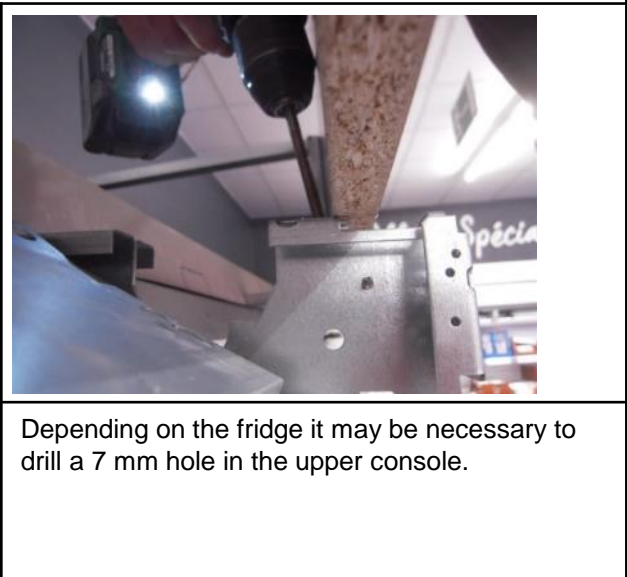
Remove the upper cover




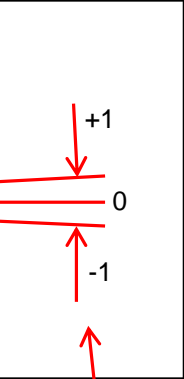
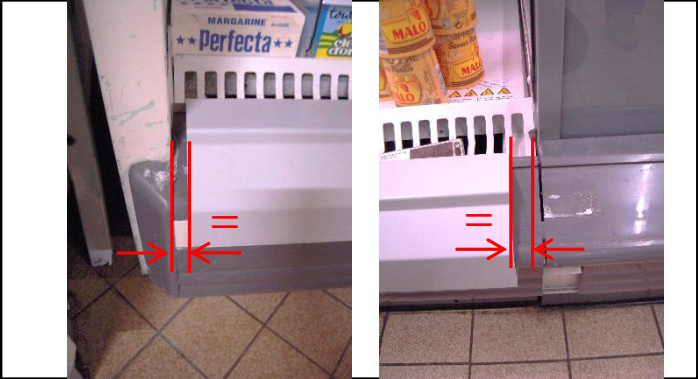


In case night curtains are in place remove them. If it doesn't interfere with the installation of the doors, disable the functionality by unplugging them.

4. Installation | Preparing the cabinet

**Important Remark:** L-consoles are provided only for some cabinets. Check on the overview if they are in the delivery. If not skip the below step.


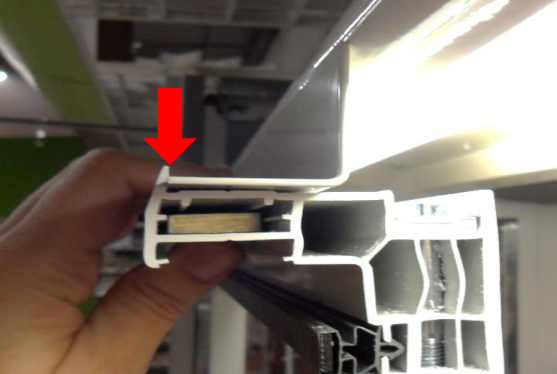
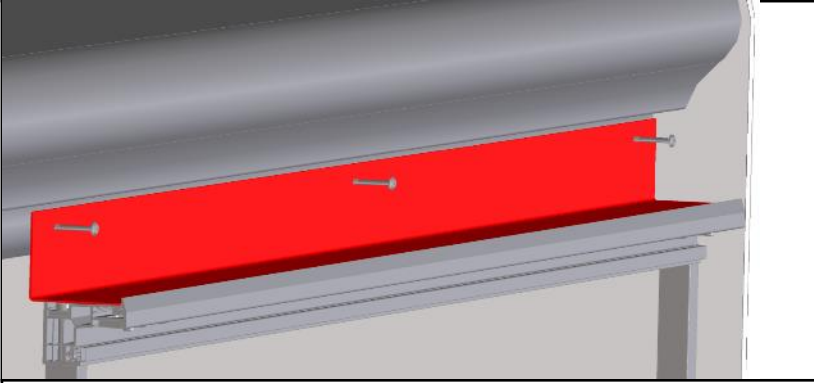
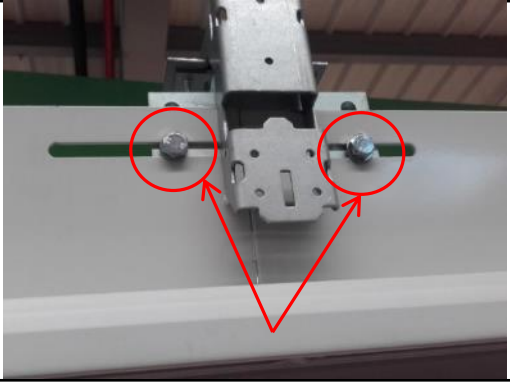

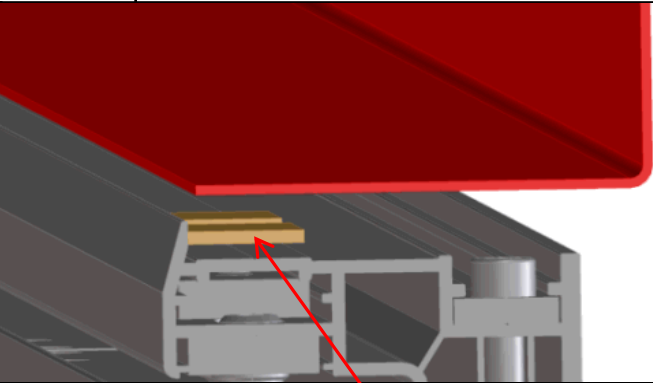
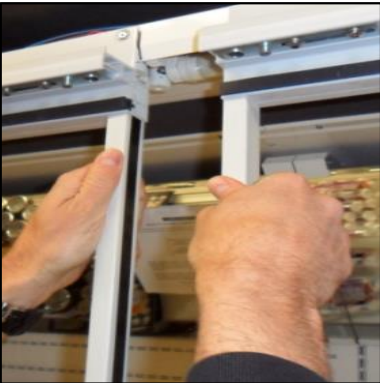


		
<p>Fix the L-console to the cabinet console with the provided M6 screw.</p>	<p>There are different L-consoles for different cabinets</p>	<p>Depending on the fridge it may be necessary to drill a 7 mm hole in the upper console.</p>

**Important Remark:** Schott provides with all deliveries a sketch showing where the adapter is fixed to the cabinet !

		
<p>Position the bottom adapters in level</p>		<p>Distribute the gap between adapters and sidewalls identically on both side</p>
	<p>Tolerance +/- 1° recommended*</p>	
<p>Fixing of the adapter from the front side using 3 alu rivets Ø4,8x25.</p>		



## 5. Installation | Upper Adapter and frame

		<p><b>Fix the upper adapter to the cabinet or to the L-console</b></p> <p>Use the frame as a measurement device for the correct height. Turn the L-shape in a way that the frame is leaning slightly inside the cabinet (between 90 and 91°). At a system height of 1780 this corresponds to 5 - 10 mm.</p>
<p>Start with a first frame flush with the lower adapter.</p>	<p>The adapter has to be aligned with the front of the frame.</p>	
		
<p>In case of fixation directly to the cabinet, drill and rivet 3 times for an adapter of 1250 mm. Use 3 rivets Alu Ø4,8x10.</p>	<p>In case of fixation to the L-console use screws and nuts M6</p>	
		
<p>Fix the upper part of the frame to the adapter with 3 rivets in the existing holes previewed in the frame. Use Alu Rivets Ø4,8x25 on the left and right and in the middle an Alu Rivet Ø4,8x10.</p>	<p>Make sure that the adapter is in level to avoid deformation when riveting. If this is not the case, use a plastic plate to bring it to contact. Use for example if delivered the plastic plate 2000 x 100 x 2 mm and cut out the size that you need.</p>	
		
<p>Install all frames of a line. Fix only the upper part as described on the previous page</p>	<p>Connect the vertical bars with the tape, which is always on the right side of a frame</p>	<p>Assure that the frames are properly aligned</p>

## 5. Installation | Doors of a line



Hang in the doors - The bottom of the frame does not need to be fixed at this stage  
Start with insert upper door hinge into the hinge plate bearing in top

Door (in open position) has to be in 90° towards frame



Unscrew the screw that is kept in the frame, then turn the gravity plate and put the door in the foreseen hole

Put the screw and washer back to secure the gravity system.  
Use max. force of 6N.

Important : To assure the installation put the foreseen screw



## 5. Installation | Adjusting the doors by sliding the frame on the bottom adapter

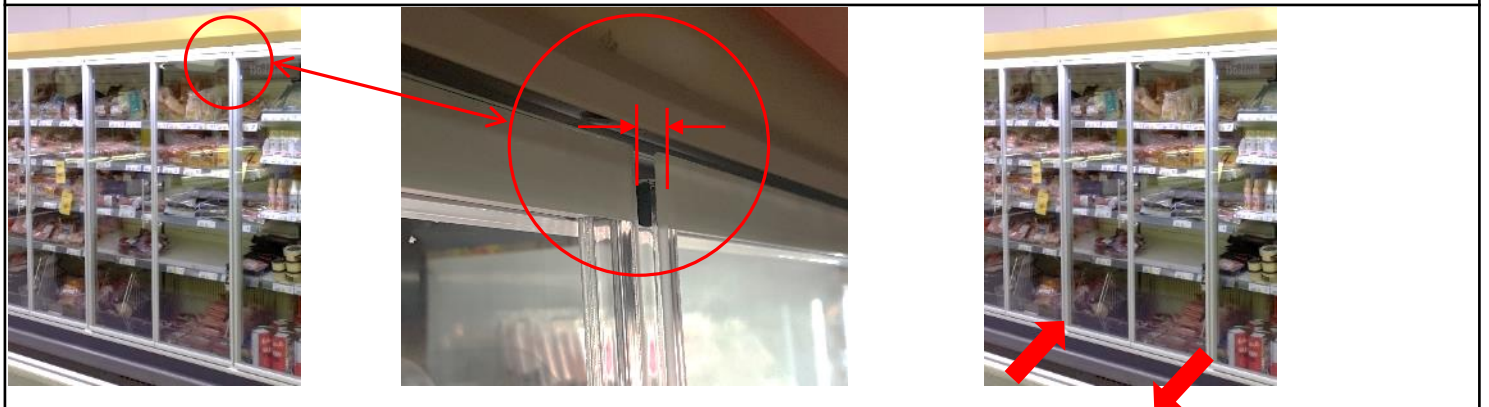


It may be necessary to slide all lower profiles in one or in the other direction to be able to adjust the level of the doors. If the sliding of the frames does not allow a perfect adjustment, make an average adjustment that can be refined later.



If the doors do not close themselves pull the frame slightly out.

**Important remark:** For a proper door closing the door must lean slightly inside the cabinet. Assure this during the adjustment procedure.



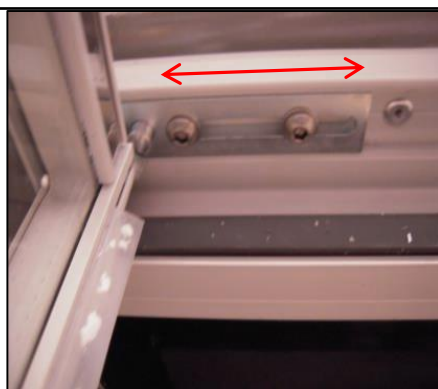
If the doors are not aligned in the internal/external direction, push slightly one corner of the frame in and pull the other corner out



Once the doors are adjusted and closing automatically via gravity, fix the frame with **3 Alu rivets (Ø4,8x25)** which are put through the foreseen holes in the frame.

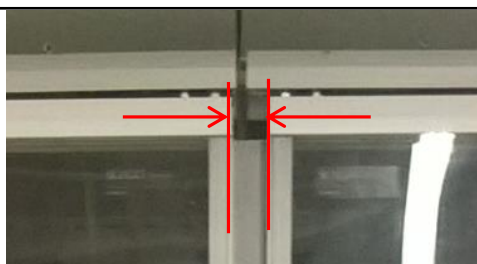
Close the bottom part with the delivered cover once the rivets are in place

## 5. Installation | Fine adjusting of the doors



In order to adjust the doors finely, use the upper hinge plate by unscrewing the 2 screws and then moving the door

### IMPORTANT NOTE FOR T.AGD3



**Warning : minimum distance between the doors is 16 mm**



First check that the distance between the doors on the hinge side is more than 16 mm. Then make sure that the glasses do not touch each other during opening at around 45° of the two doors at the same time.

**If the distance is less than 16 mm, don't open the doors at the risk of glasses touching each other and break, please modify slightly the adjustment on the upper slider (see above)**

## 5. Installation | Closing the cabinet on the sides using the delivered material

Schott provides different material to close the gap between the frames and the side walls. It can be different according cabinet type and position of the side wall to the frame. The standard delivery consist of a PVC L-profiles (19x19x1mm) and/or a PVC plates (2000 x 100 x 2 mm). For special cases and bigger gaps on the sides Schott provides specific and adapted material and a separate drawing



In case of the supply of PVC L-profile and PVC plate:  
1- Install the PVC plate flush with the front of the frame to hide the profile and rivet it in the vertical bar of the frame.  
2- Tape the L-profile in the angle between the PVC plate and the side wall

In case of the supply only PVC L-profile:  
Tape the L-profile in the angle between the PVC plate and the side wall

## 6. Control of installation

### Ensure that...

All cabinets are properly cleaned after the installation and no metal span can be found inside or outside the cabinet ☐

All glass doors have been cleaned with a suitable glass clear (e.g. Nano Cleaner from Schott) ☐

Doors are closing automatically via the gravity system ☐

Frames are properly aligned ☐

Doors are adjusted properly in the frame and screws are tightened ☐

Adapters are properly fixed to the cabinet and no movement can be found between adapters and cabinets ☐

The adapters are properly fixed with the frames ☐

The sides of the cabinets are properly closed with the delivered finishing materials (corners and plastic plates) ☐

Distance between stop pin and hinge plate is min 3 mm to guarantee a proper door stop function ☐

**For T.AGD3:** Open 2 doors which are next to each and assure, that they do not touch each other (see picture below) ☐





## 7. Care and cleaning

### Glass surfaces

Surfaces may be cleaned with household glass cleaner and a sponge, tissue or paper towel. Cleaners containing alcohol may be used but the alcohol content should be no greater than 30%-40% of the solution. Remove any oily contamination with a grease cutting cleaner.

### Door hinging

Greasing of the door hinging is not necessary. Clean dirt by wiping it away with a dry tissue.

### Aluminum material

Clean the surface by wiping with a soft cloth. Using hard materials such as a metal scraper or a scrubbing brush will damage the surface and cause corrosion.

The aluminum surface is treated with anti-corrosion anodic oxide coating. However, salt, acid, alkali or water containing such substances will cause corrosion when coming into contact with the aluminum surface. Therefore, immediately wipe away such substances.

### Plastic and rubber parts and magnetic sealings

Clean the plastic / rubber surfaces with a soft tissue or towel, that was slightly moistened with water. Do avoid organic solvents.

#### For Cleaning purposes do not use

- Razor blades or knives
- Cleaners which contain moisturizers, abrasives, strong acids, or caustic substances (e.g. Ajax, Scotch-Brite or similar cleaners)

## 8. Troubleshooting and problem solving

### General points

- Repairs and replacement must be conducted by professionals. Spare parts and guidance are available upon request
- Opening the door wider than the door stop position will cause parts to distort. This may interfere with correct opening/closing of the door or may result in system damages and causing injury
- During restocking, open the doors fully and load the goods, be careful not to scratch the glass
- Do not hang heavy items from the door or handle. Do not use the door as climbing aid. Also, do not stand or place your foot on the lower parts of the system
- Do not modify the product
- Abnormal operation may result in injury, electric shock or fire.

## 8. Troubleshooting and problem solving

### Frame height in front openings changed due to installation

outside

inside

Height is bigger than it should

Problem 1: door goes under the stop

Problem 2: door scrapes to the vertical bar of the frame because of the bending

Problem 3: door scrapes to the bottom horizontal frame

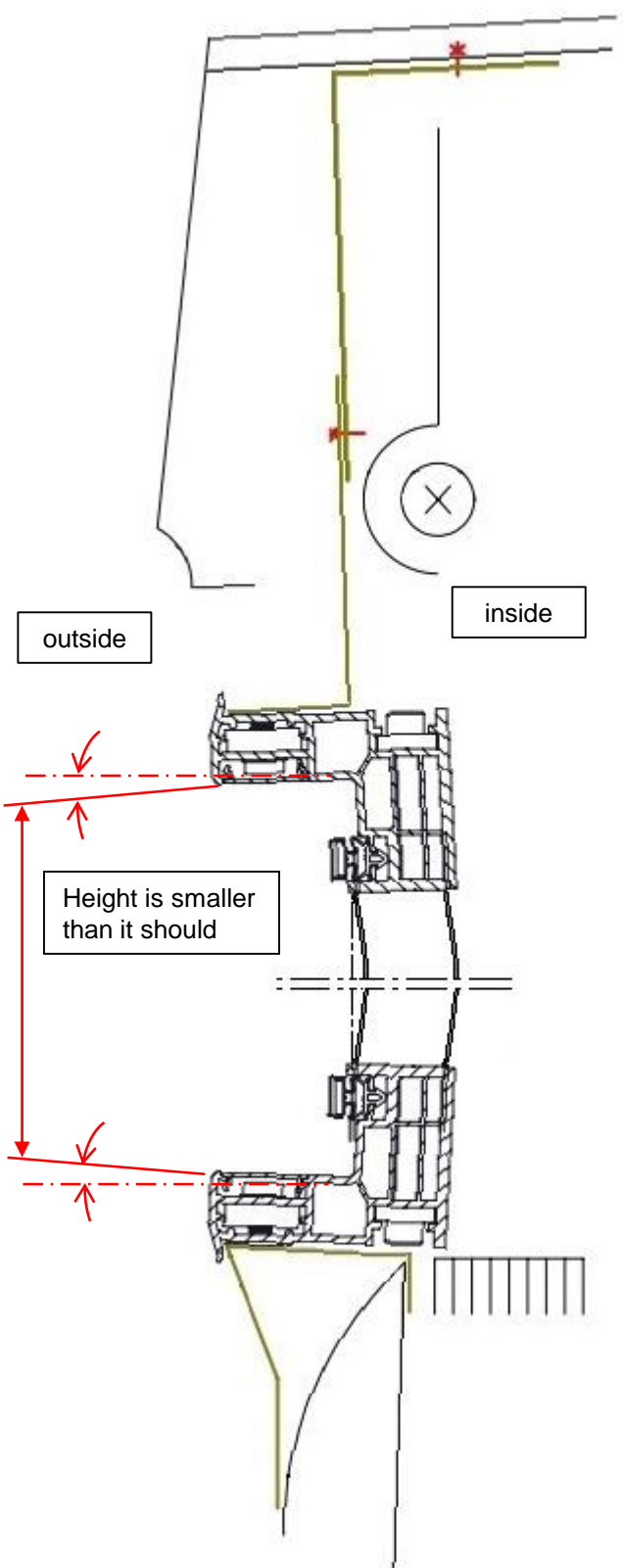

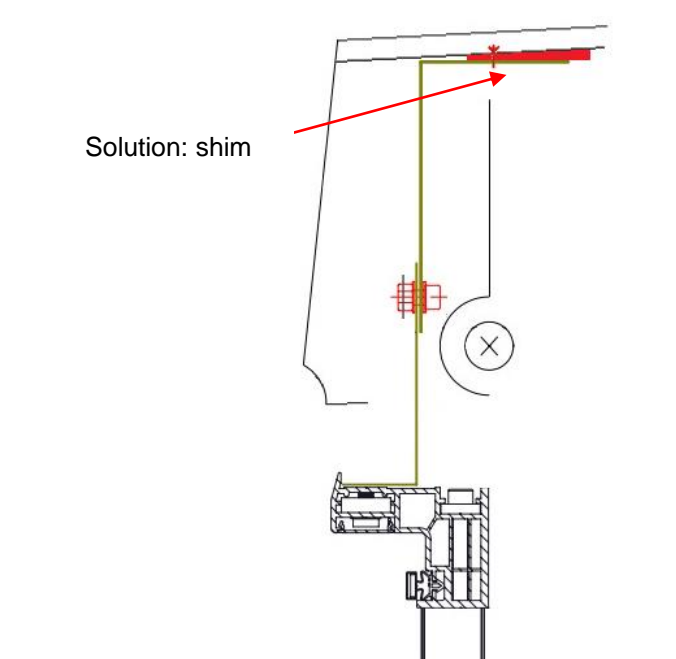
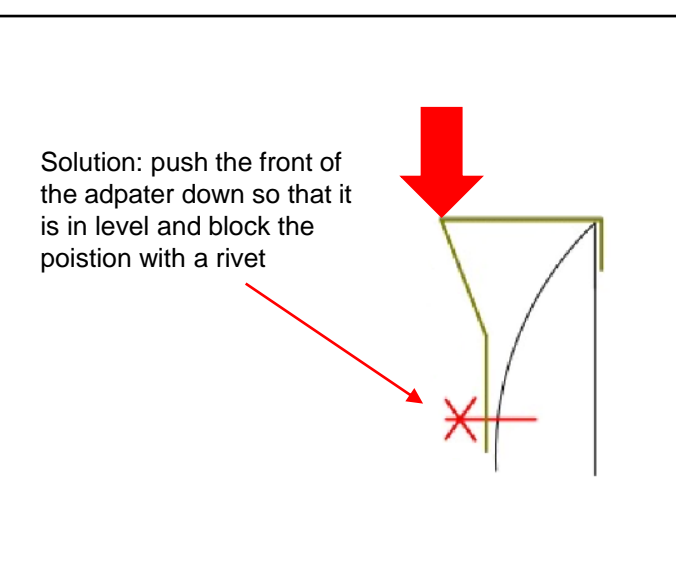
Solution: reposition the lower and upper adapters. It is possible to use shims to adjust the level.

shims

**Frame horizontals is bended apart.**  
 Stop function can get lost and/or door scrapes to the bottom horizontal and/or door door scrapes to the vertical bar of the frame

## 8. Troubleshooting and problem solving

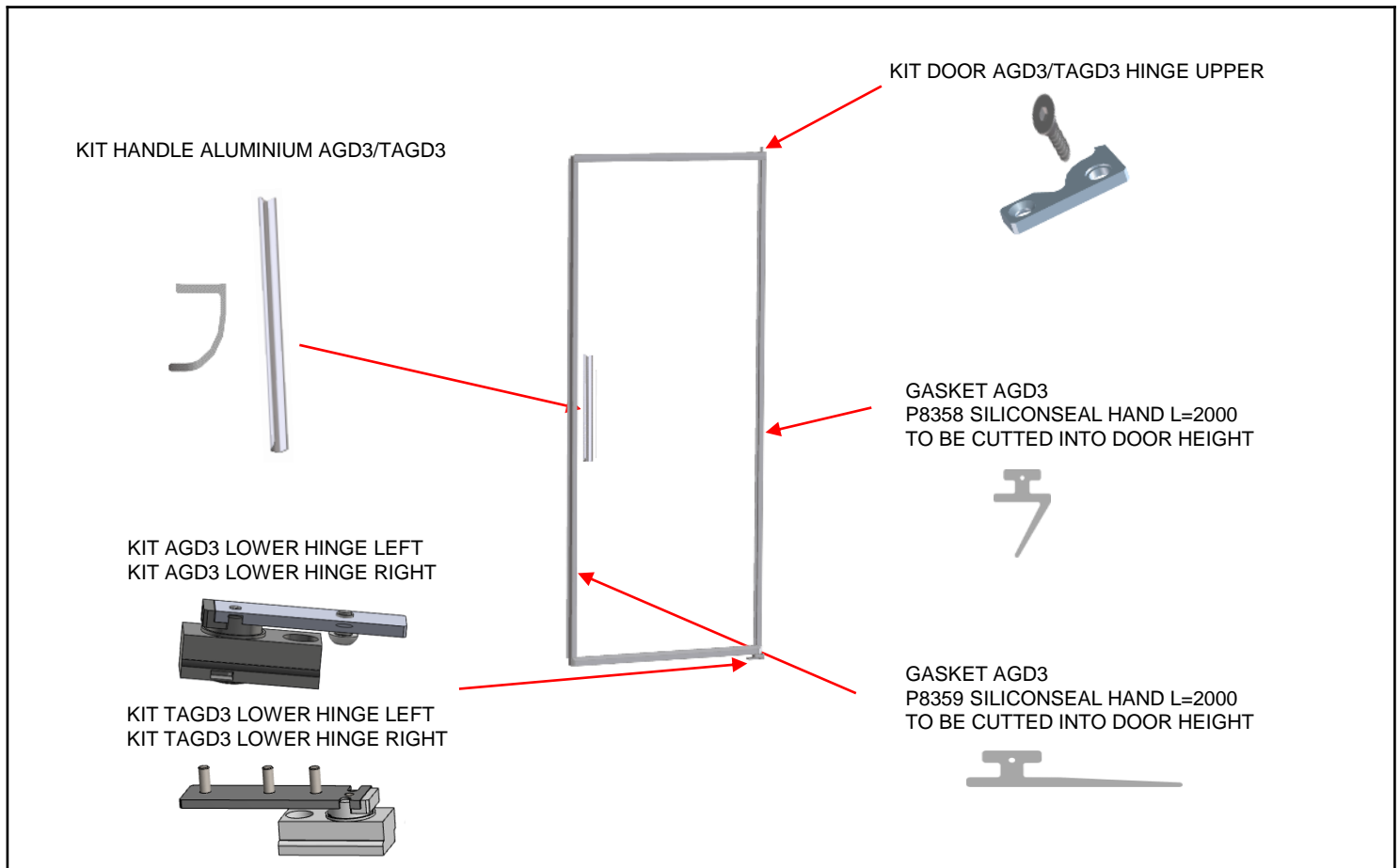
Frame height in front openings changed due to installation

 <p>outside</p> <p>inside</p> <p>Height is smaller than it should</p>	 <p>Problem: door doesn't close</p>  <p>Solution: shim</p>  <p>Solution: push the front of the adapter down so that it is in level and block the position with a rivet</p>
<p><b>Frame horizontals is pressed together.</b> Door is squeezed and can not close properly</p>	<p>Reposition the lower and upper adapters. It is possible to use shims to adjust the level.</p>

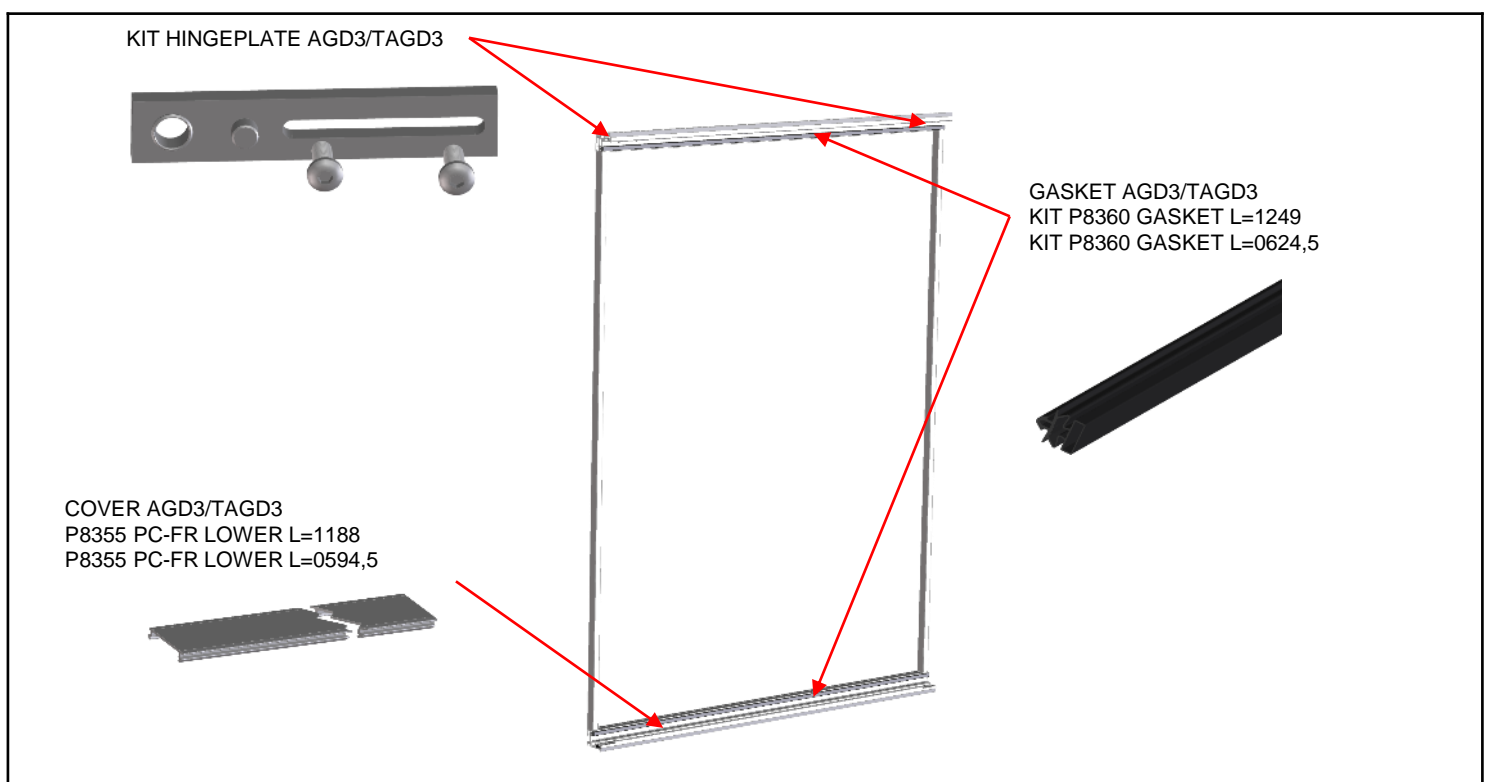


## 9.1 Spareparts for AGD3 door


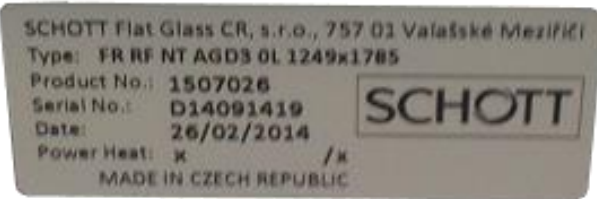
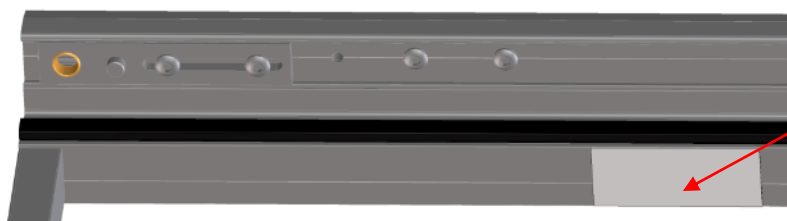



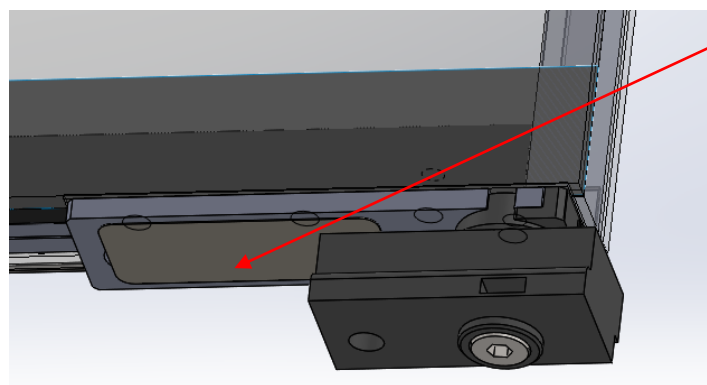

Spare parts needed for repair or maintenance operations can be obtained quickly and easily. Please feel free to contact SCHOTT Termofrost®, or your local dealer for a complete list of available spare parts.



## 9.2 Spareparts for Frame



## 10. Serial number and type for frame and doors

 <p>SCHOTT Termofrost®          TYPE: 1448044 INPUT: x          S/N: B14090320 POWER: x          DATE: 2014/02/26 MADE IN CZECH REP.          SCHOTT Flat Glass CR. s.r.o.</p>	 <p>SCHOTT Flat Glass CR, s.r.o., 757 01 Valašské Meziříčí          Type: FR RF NT AGD3 0L 1249x1785          Product No.: 1507026          Serial No.: D14091419          Date: 26/02/2014          Power Heat: K /K          MADE IN CZECH REPUBLIC</p>
Door label with type (article number for door) and Serialnumber (S/N)	Frame label with type (article number for frame) and Serialnumber (No)
  <p>On upper profile in left opening</p> <p>Place for serial number and type for frame</p>	
  <p>On upper side of the door profile close to hingeside.</p> <p>Place for serial number and type for door for AGD3</p>	
  <p>On bottom side of the door close to hinge side.</p> <p>Place for serial number and type for door T.AGD3</p>	