



The ceiling projection mirror mainly consists of a metal frame for installing projectors between the structural ceiling and the suspended/finished ceiling.

The video projector is fixed inside of the frame on a carrier plate. This plate can easily be taken out of the frame. This means that the projector can easily be mounted and removed.

The projection beam is directed from the ceiling to the screen by two mirrors. The second, adjustable mirror drives down for projection. The final position can be set easily by the adjustable dead stop. The first, fixed mirror is adjusted to the lens position and can be easily adjusted to the correct optical axis by its three point support.

**Performance Features**

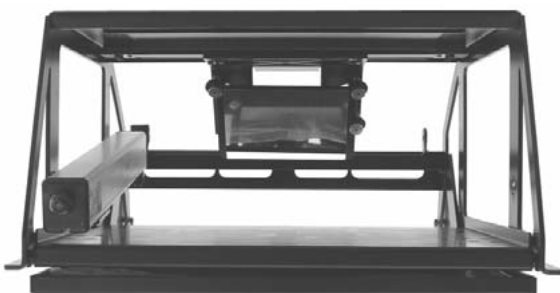
- The projector is invisible - it doesn't disturb the room design, it is protected against damages and the sound of the fan is muffled
- In the closed position, the opening is covered by the mirror flap. It can easily be adapted to the ceiling design
- The ceiling opening is smaller than a ceiling plate of standard pattern ceilings
- Both mirrors are high quality surface mirrors made of glass
- Easy adjustment of the projected image to the screen
- Externally controllable via contact closure using remote control systems

- The projector can easily be removed through the ceiling opening for maintenance. An additional service opening is not necessary
- Low mounting height - it can be used even in tight spaces between the raw and finished ceiling

**Architectural specifications**

The architectural specifications are at your disposal on the Internet under [www.comm-tec.de](http://www.comm-tec.de) or can be asked for from COMM-TEC directly.

**Type: ProFLECT**  
**Manufacturer: COMM-TEC**



**Important!**

**Please note the following when selecting the projector:**

1. The projector is mounted in an upright position. You should use projectors that have fixing points on the bottom side of the housing.
2. The lens of the projector should be fixed to project in the middle of the adjustable mirror for optimum results. Please consider this when using projectors with lenses mounted in extraordinary positions and the width of which is near the maximum width. The slimmer the projector, the better the middle axis can be set with the position of the projector or the small fixed mirror. In order to better center the lens position, the drive motor of the mirror flap can be mounted on the left or the right side.
3. According to the height of the projector or if the housing has very rounded or slanted back edges, the max. length may be longer. You can also mount longer projectors with ceilings that allow for an access to the front side (the side that is toward the screen) of the ProFLECT.

The mounting / removal of the projector is then effected through the ceiling in front of the ProFLECT ceiling mirror.

4. Please check where the power cord and the signal line are plugged in on the projector. The manufacturer's indication of the size are usually those of the housing only. Mounted cables can enlarge the size by a few centimeters.
5. Ventilation openings should not to be blocked.
6. Using projectors with Tele lenses may cause image distortion due to the fact that the lenses do have sharpness problems. Therefore we don't recommend the use of this kind of lenses in combination with the ProFLECT without prior testing, since the effect may differ from lens to lens.

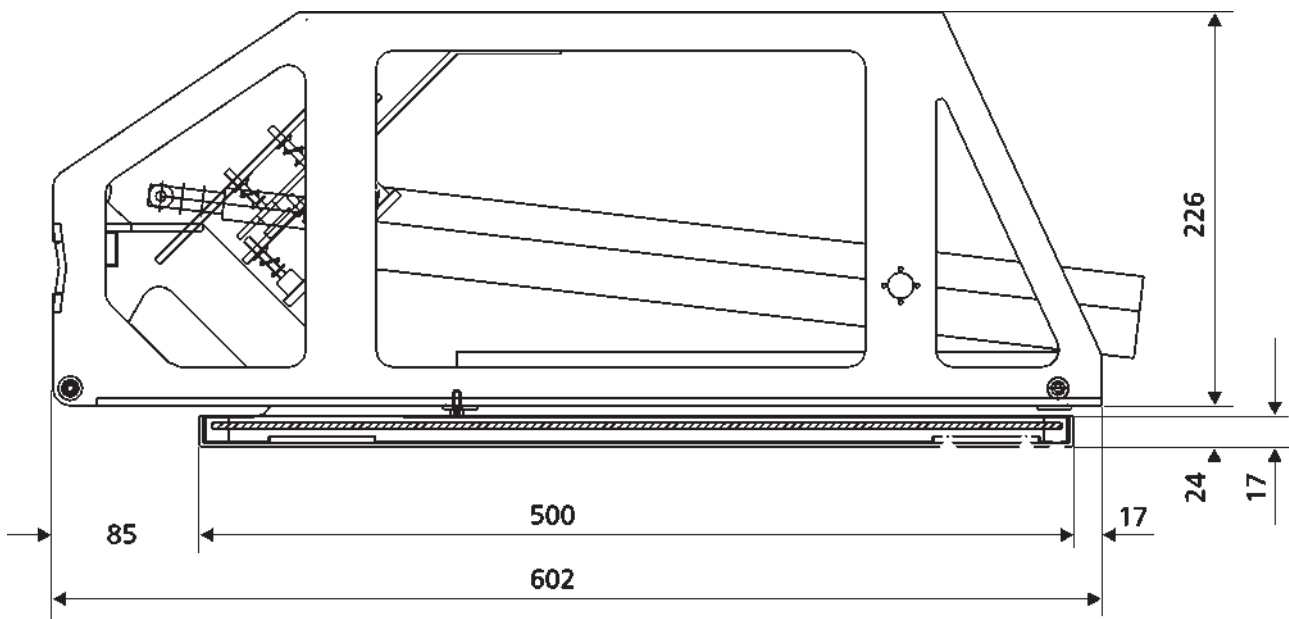
**Please consider the following points when planning and mounting the ProFLECT Ceiling Mirror:**

1. The middle axis of the image of the projector should be in the middle of the screen, image adjustments to the side are only possible to a limited extent.

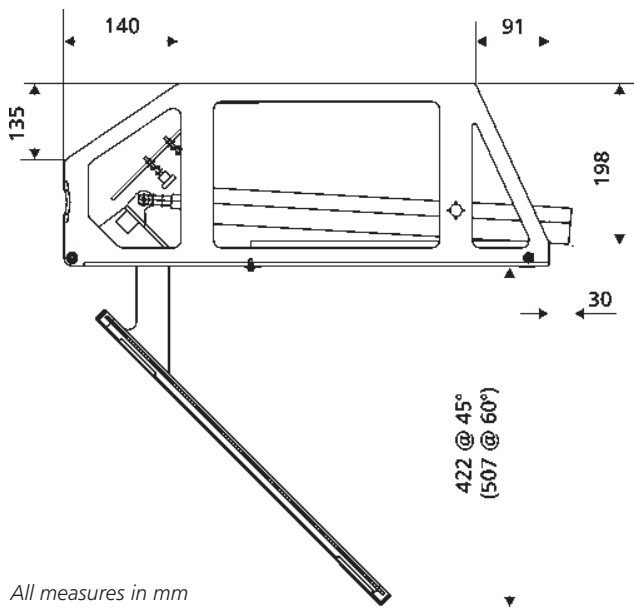
As the lens position is not necessarily in the middle of the ProFLECT it is possible that the ceiling mirror has to be mounted outside the middle of the screen.

For patterned ceilings it is recommended to mount the ceiling projection mirror in one ceiling element and to plan the position of the screen centered to the middle axis of the image.

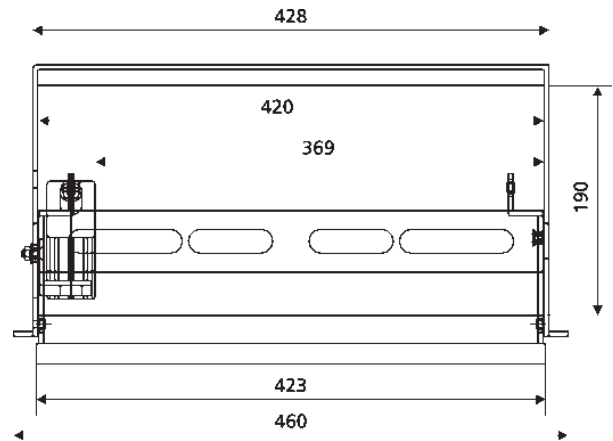
2. The distance between the upper edge of the image and the lower edge of the ceiling should not be too large. A keystone distortion of the image could result.
3. The image size can be adjusted by the zoom function with most projectors. Nevertheless, you should be aware that the adjusted image size can also be shown on both mirrors without losses. It is preferable to choose the mounting site further away from the screen (long focal width).
4. If the ceiling projection mirror is mounted in an enclosed ceiling opening, adequate ventilation should be provided for.



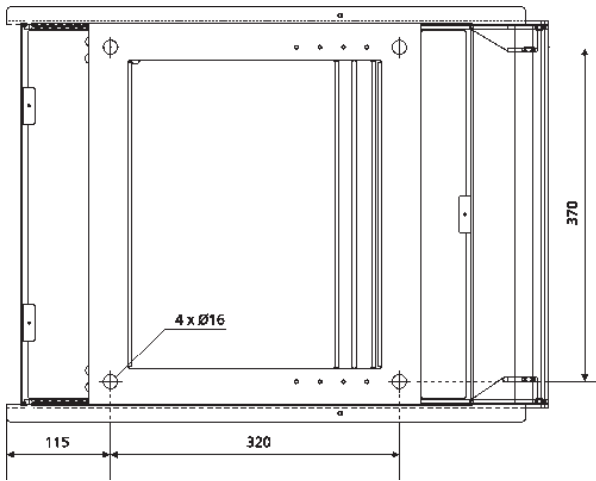
All measures in mm



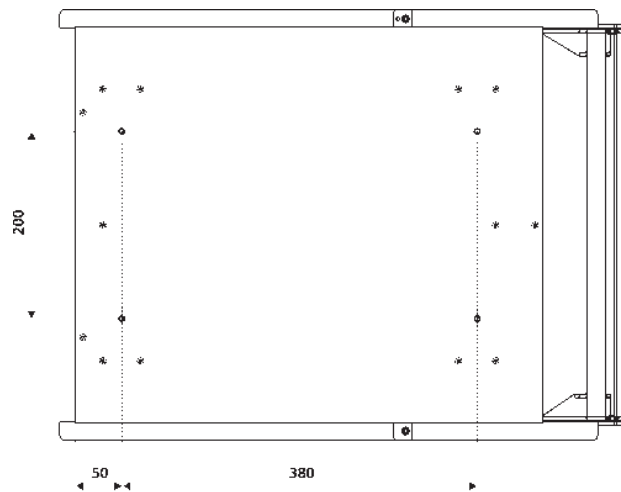
All measures in mm



All measures in mm



4 drilled holes  $\varnothing 16$  for fixing the ProFLECT to the ceiling.  
All measures in mm



Threaded holes (4 x M6) at the bottom of the mirror flap; for fixing the ceiling pattern.  
All measures in mm

### Technical specifications

|   |   |                                 |
|---|---|---------------------------------|
| <b>Type</b>   | ProFLECT  |                                 |
| <b>Description</b>                                      | Ceiling Projection Mirror   |                                 |
| <b>Cat.-No.</b>   | 706010  |                                 |
| <b>Drive</b>  | Electric spindle drive with mechanical overload, can be mounted on the right or on the left side  |                                 |
| <b>Operating voltage</b>                                | 230 V, 50 Hz  |                                 |
| <b>Power supply</b>                                     | 0,15 A  |                                 |
| <b>Power cord</b>                                       | 3 x 0,75 mm <sup>2</sup> (Color: blue, brown, black) without GN/YE (Jacket PVC)   |                                 |
| <b>Control</b>  | Phase is being switched for rotation direction; 2 dry contact closures required   |                                 |
| <b>Protection class</b>                                 | IP65  |                                 |
| <b>Rated Service time</b>                               | 30 minutes  |                                 |
| <b>Temperature range</b>                                | -20° to +70° C  |                                 |
| <b>Operating time</b>                                   | downward app. 11 sec, upward app. 12 sec.   |                                 |
| <b>Design</b>   | Metal frame, welded, color black  |                                 |
| <b>Overall dimensions</b>                               | <p>Framework: 460 mm x 226 mm x 602 mm (W x H x D)</p> <p>Mirror flap: 423 mm x 17 mm x 500 mm (W x H x D)</p> <p>On the front side, the motor sticks out over the frame of about 30 mm.</p> <p>The lower edge of the mirror flap has a distance from the frame of 24 mm when the ceiling mirror is closed.</p> <p>The overall dimensions are: 460 mm x 250 mm x 632 mm (W x H x D)</p> |                                 |
| <b>Weight</b>   | 17 kg   |                                 |
| <b>Mirror</b>   | Surface mirror made of glass  |                                 |
| <b>Plane</b>  | according to DIN 3140, part 5 up to 3/0,5   |                                 |
| <b>Surface flaws</b>                                    | according to DIN 3140, part 7 up to 3/1 x 0.016   |                                 |
| <b>Abrasion resistance, adhesiveness and durability</b> | according to MIL-M 13508 C  |                                 |
| <b>Dimensions</b>                                       | Small mirror  | 115 mm x 150 mm (H x B), at 45° |
|   | Large mirror  | 485 mm x 406 mm (H x B), at 45° |
| <b>Maximum projector dimensions:</b>                    |   |                                 |
| <b>Height</b>   | 180 mm  |                                 |
| <b>Depth</b>  | 420 mm  |                                 |
| <b>Width</b>  | 365 mm  |                                 |

Specifications are subject to change without notice. Mechanical dimensions may vary.