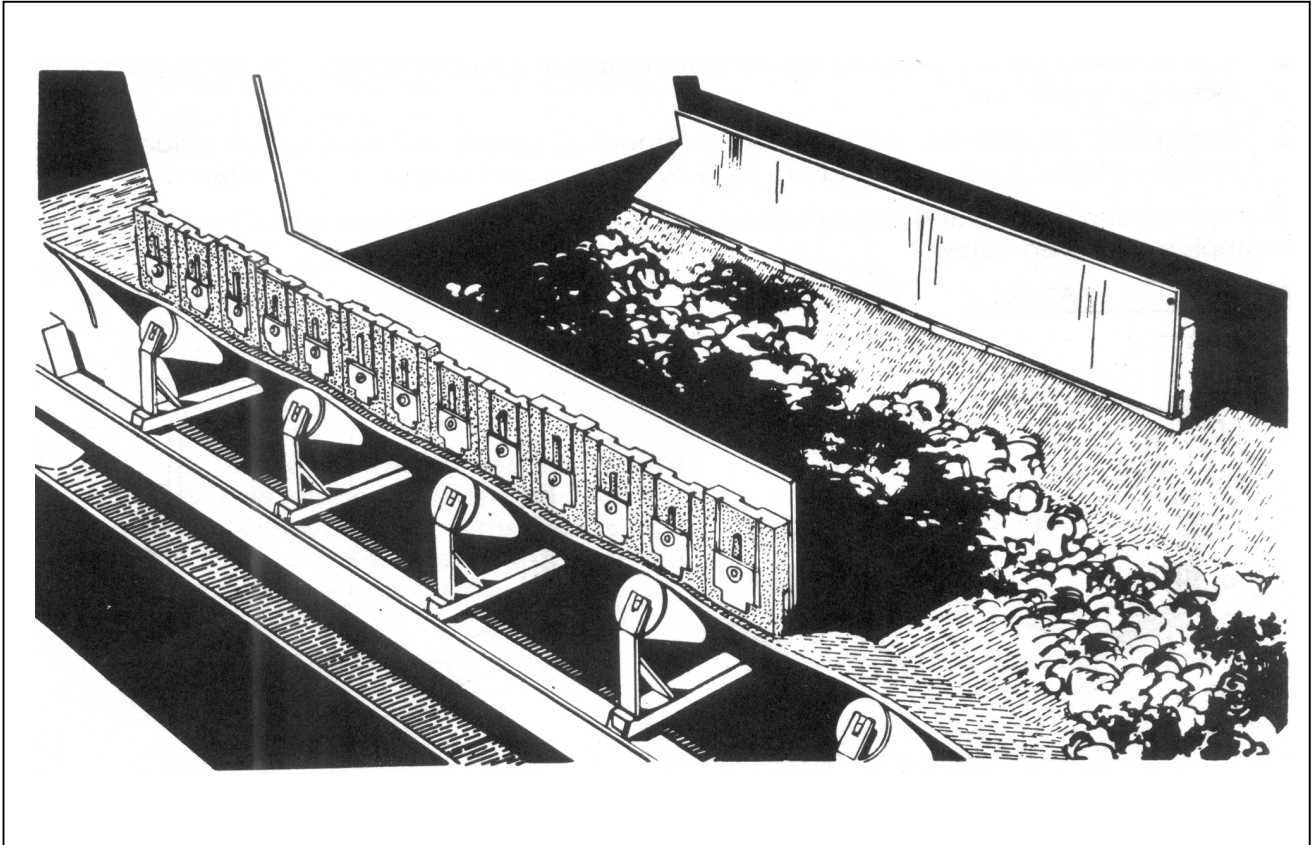




# SKIRTBOARD SEALING SYSTEM



**“SPILL-EX”**

**SKIRTBOARD SEALING SYSTEM**

**INSTALLATION AND MAINTENANCE MANUAL**



## SKIRTBOARD SEALING SYSTEM

### GENERAL

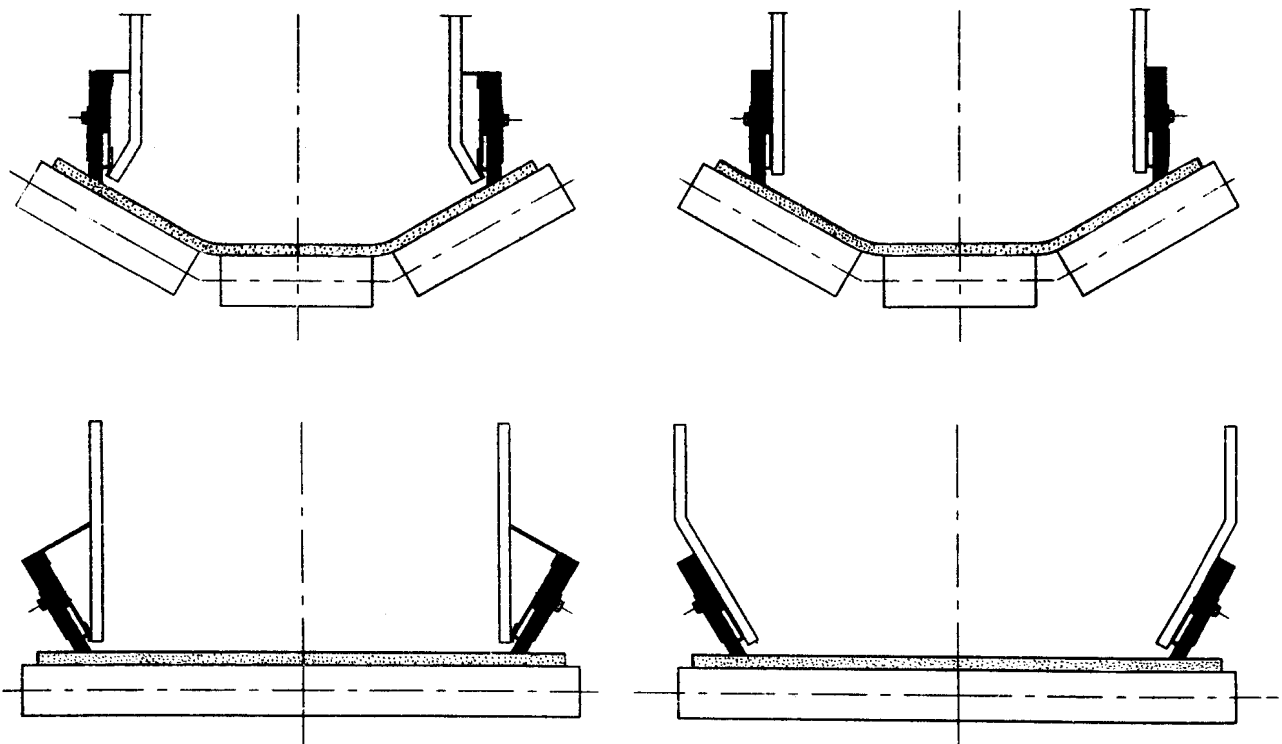
The "SPILL-EX" skirtboard sealing system provides a complete and continuous dust-tight seal and allows adjustment for wear in small increments at any point along the conveyor belt, using only a hammer. No special tools or extensive trained personnel are needed.

The "SPILL-EX" skirtboard sealing system eliminates spillage at conveyor belt transfer points, reducing maintenance and operating costs at the same time. The system consists of the following three basic components.

- The easy to install backing plate, which is permanently fixed to the skirt plate of the conveyor belt.
- The serrated clamp, allowing the rubber skirtblock to move down towards the belt and locking it in position.
- The rubber skirtblocks, as replaceable modules, simply slide along the guides of the backing plate on one side and are held by the serrated clamps on the other.

The system can be mounted on any belt conveyor, due to its universal design. Some application examples are given below.

### APPLICATION EXAMPLES





## SKIRTBOARD SEALING SYSTEM

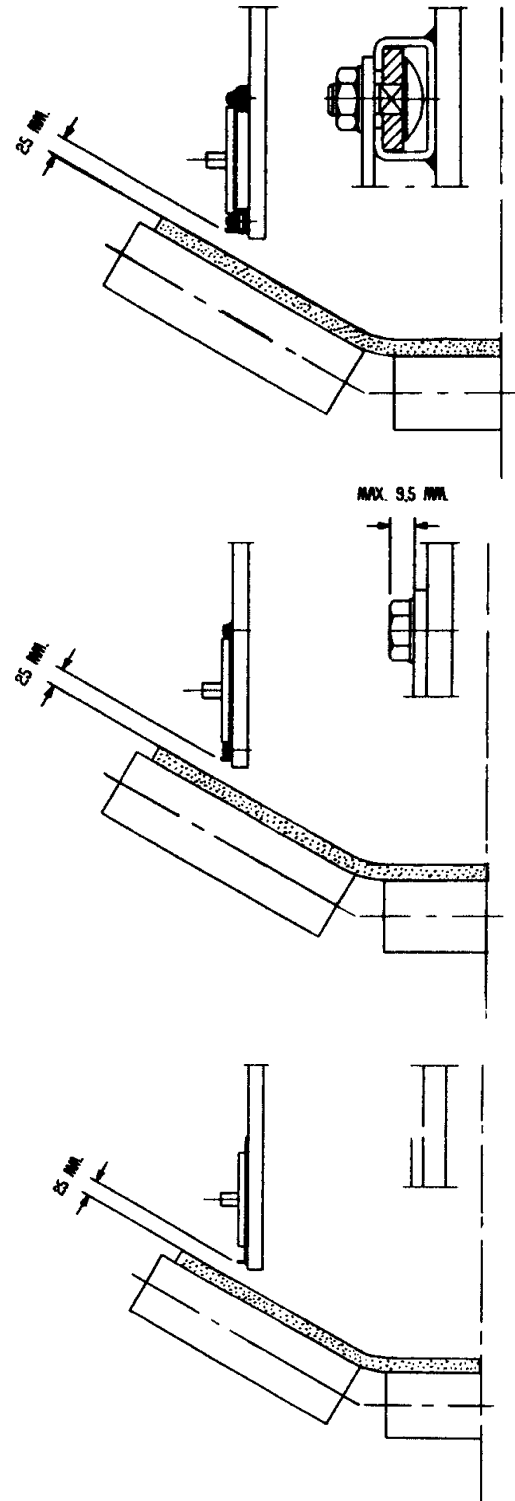
### Possibilities for installation

Installation of the SPILL-EX system is very simple. Installation of the backing plates of the system to the walls of the chute is possible according following 3 methods :

1. By means of plugwelding in the holes  $\varnothing 9$  mm. Bear in mind, that the backing plates are hot dip galvanized and that during welding hazardous fumes may occur. Ensure proper ventilation. The zinc layer will be locally damaged by welding of the plates and should be repaired after welding. This method is only suitable for existing conveyors. The next two methods are preferred.

2. Installation by means of M8 bolts and washers. This methods is normally used for new belt conveyors. For dimensions and pattern for the holes, see sketch of the backing plate on the next page.

3. By means of attachment strips. This method can be used for new belt conveyors as well as for existing conveyors. The attachment strips can be delivered with the system. If local manufacturing of the strips is preferred, the dimensions of these strips are given in the sketch on the next page.



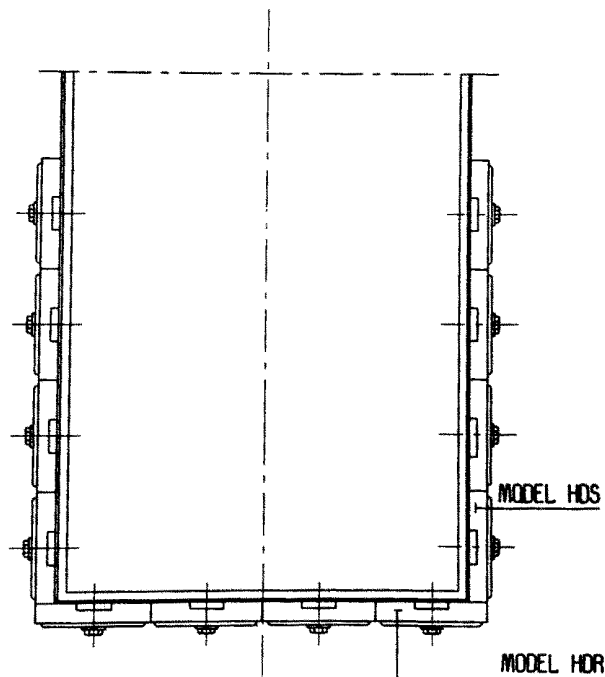
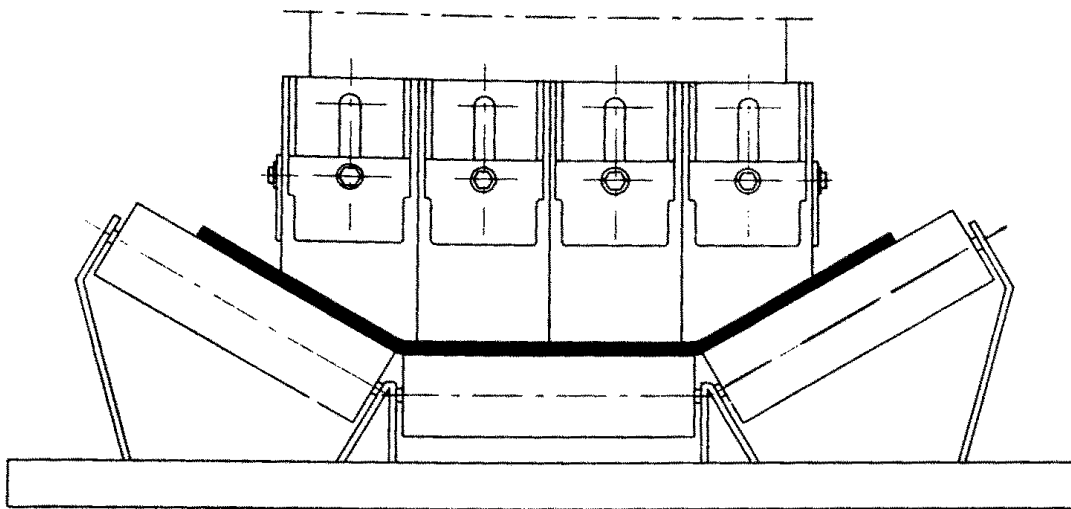


## SKIRTBOARD SEALING SYSTEM

### APPLICATION ON BACK-AND SIDE-WALLS

In order to achieve a perfect sealing at transfer points, we recommend the use of the blocks, model HDS for the side-walls of the chute and the blocks, model HDR for the rear of the chute, this will ensure a dust-tight seal at the back corners. See for dimensions of the blocks and the backing plates the sketches on the next pages.

The skirtblocks, model HDR must be cut to belt contours at site with a jig-saw.

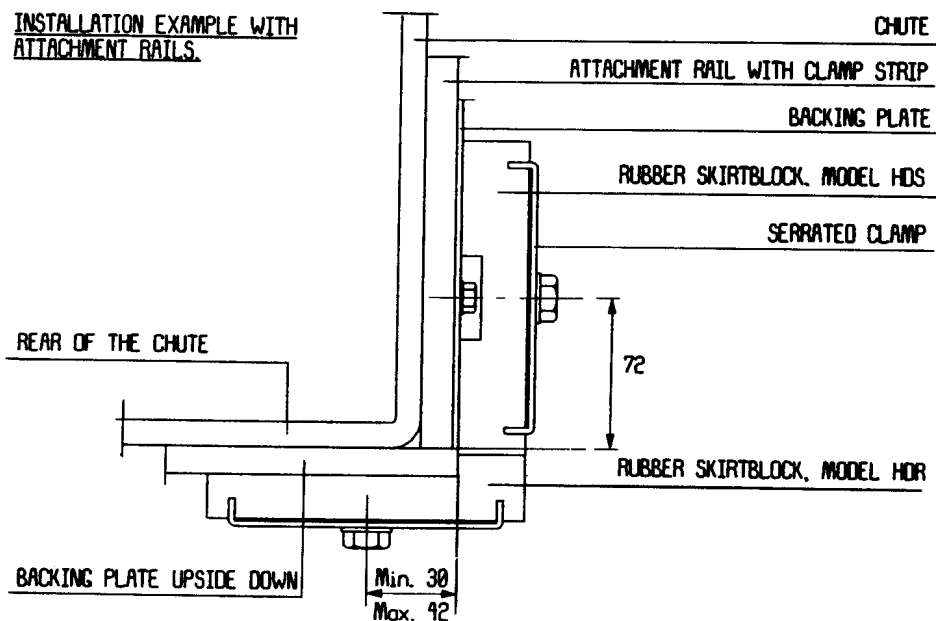
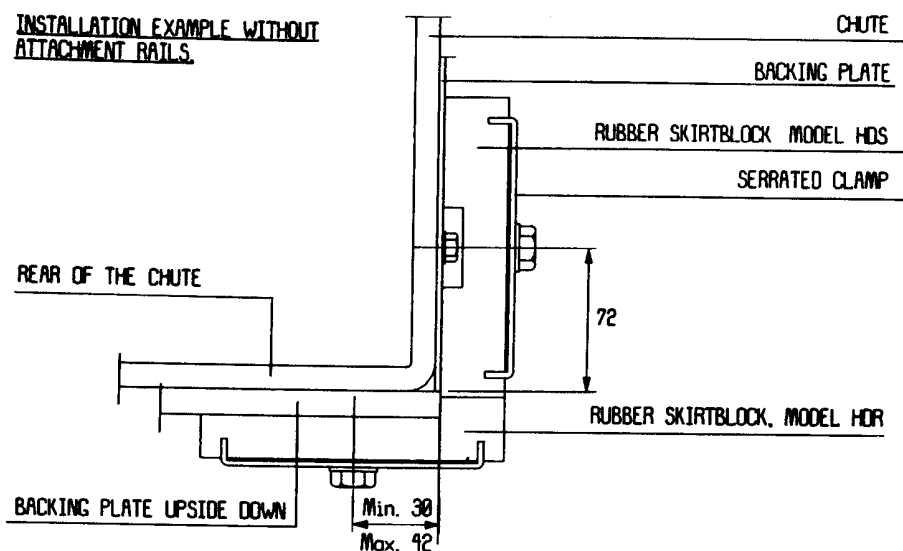




# SKIRTBOARD SEALING SYSTEM

## INSTALLATION EXAMPLES FOR THE REAR OF TE CHUTE

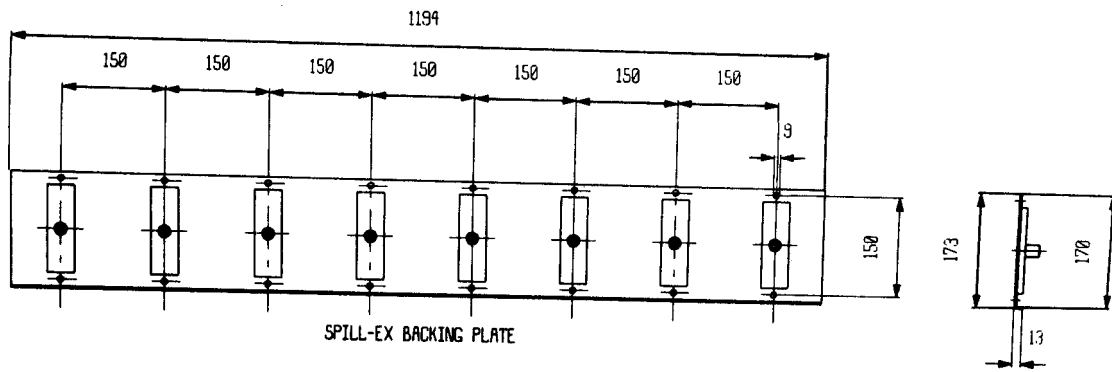
If the skirtblocks model HDS and are used, the backing plates should be cut to size at site. The backing plates for the side walls are installed with the bent edges at the bottom side, the backing plates for the rear of te chute are mounted with the bent edge at the top side. Underneath are two different installation without attachment rails, the lower sketch shows installation with the use of attachment rails.



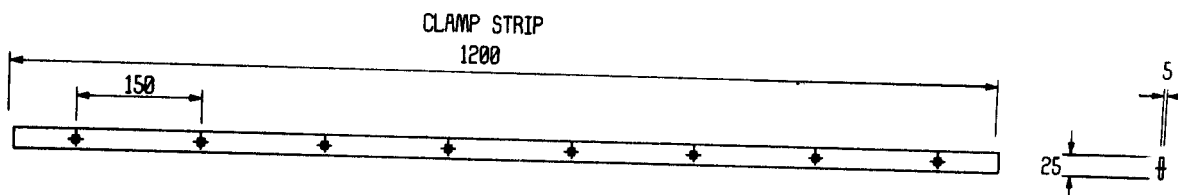


# SKIRTBOARD SEALING SYSTEM

## DIMENSIONS OF THE BACKING PLATE

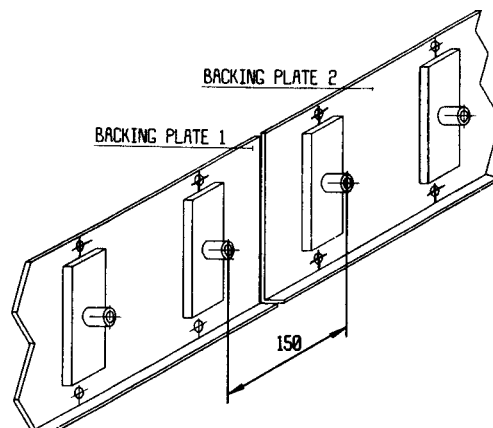


## DIMENSIONS OF THE ATTACHMENT STRIP



## INSTALLATION

- Run the conveyor until all the material is removed.
- Isolate the conveyor in accordance with the appropriate health and safety regulations in force at your works to prevent unauthorised starting.
- Align the first backing plate to the wall of the chute and secure by means of one of the methods as described before. Ensure a minimum distance of 25 mm. is maintained between the conveyor bolt surface and the bottom edge of the backing plate.
- By use of the installation fig. you can then install all the subsequent backing plates, ensuring that the distance between the two outer blocks is correct and the system is correctly aligned. Use the M12 X 16 mm. bolts supplied with the system.



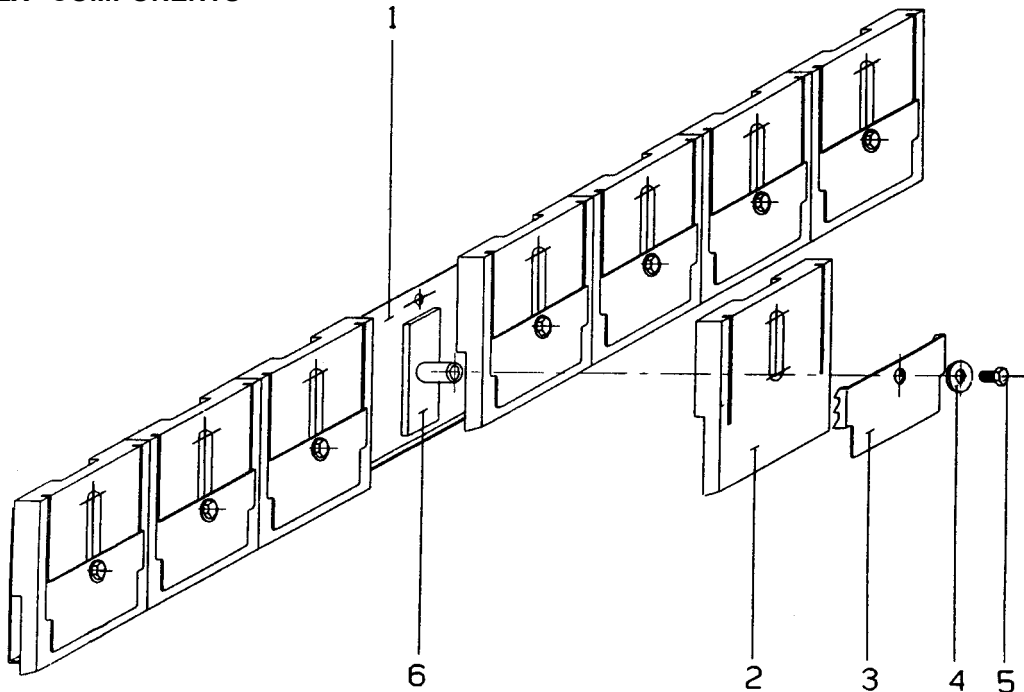


## SKIRTBOARD SEALING SYSTEM

- On completing the installation of the backing plates on both sides of the conveyer, the Skirt blocks can then be fitted by sliding onto the guides as shown.
- The serrated clamps are pushed into the grooves of the skirt blocks and secured by means of the M12 X 16 mm. bolts and washers.
- The installation is now complete, remove the permit to work on the conveyor thus allowing the conveyor to be started again.
- The individual skirt blocks can now be adjusted by tapping them down with a rubber hammer, until a satisfactory seal is achieved between the belt surface and the skirt blocks. This operation can take place whilst the conveyor is running, provided it can be done in accordance with the appropriate health and safety regulations.

### “SPILL-EX” COMPONENTS

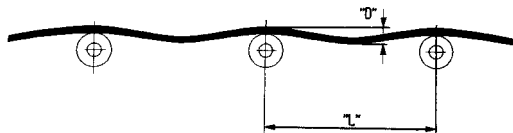
- 1) BAC
- 2) RUE
- 3) SER
- 4) WAS
- 5) BOL
- 6) GUI



### **BELTTENSION**

To achieve maximum performance of the SPILL-EX system a proper belt tension is crucial. If sagging "D" of the belt is more than 3% of the distance "L" between two idlers, then one of the following precautions must be taken:

- Increase the belt tension.
- Install additional idlers.
- Install SPILL-EX support pads.



An example of an installation with SPILL-EX support pads is given on the next page.



## SKIRTBOARD SEALING SYSTEM

### REPLACEMENT OF SKIRT BLOCKS

The skirt blocks can be easily replaced as follows:

- Isolate the conveyor in accordance with your work health and safety regulations.
- Unscrew the M12 X 16 bolt and remove it together with the serrated clamp.
- Remove the worn skirt block.
- Insert a new skirt block between the remaining blocks and secure it by means of the serrated clamp and bolt.
- Adjust the block to the conveyor belt surface, until a satisfactory seal is achieved.
- Start the belt again.

### WARNING

To carry out work on a moving conveyor can be dangerous. It is therefore essential, that the personnel who carry out adjustments on the skirtboard system should only do so in strict accordance with the health and safety regulations in force at your works.

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