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## Mack Rides service bulletin relating to flume ride anti-roll back (ARB) components

NAFLIC is in receipt of a service bulletin from Mack Rides relating to the improvement of initial anti-roll back (ARB) components on the company's flume rides. Following an incident at a park, the company has determined that the original design of the ARB system can be enhanced and provides details of the improvements in the bulletin.

Mack Rides suggest interested parties contact the company directly for further information.

The bulletin is published here in full.

*The information contained within is that of the manufacturer and not NAFLIC. When following the advice from the manufacturer, you are reminded of your duties and responsibilities under HSG175 regarding modifications.*

## Servicemitteilung / Service Bulletin

| Ihr Zeichen/Your reference | Unsere Kontaktdaten/Our contact details  | Bearbeiter/Contact | Datum/Date |
|----------------------------|--|--------------------|------------|
|                            | Tel./Phone: +49 (7681) 2000-550<br>Fax: +49 (7681) 2000-7550<br>Email: frieder.rehm@mack-rides.com | Frieder Rehm       | 2023-01-31 |

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|---|-----------------|
| <b>Information Nr. / Bulletin No.:</b>              | SB 1985-1       |
| <b>Datum der Information / Date of information:</b> | 31 January 2023 |
| <b>Gültig ab / Valid from:</b>                      | 31 January 2023 |
| <b>Ersetzt / Replaced:</b>                          | -               |
| <b>Enddatum / Finish date:</b>                      | -               |

|   |                                    |
|---|------------------------------------|
| <b>Hersteller / Manufacturer:</b>                                   | Mack Rides GmbH & Co KG            |
| <b>Anlagenname / Ride name:</b>                                     | Flume Ride Tiger Rock, Chessington |
| <b>Betroffene Produktionstermine:</b><br>Affected production dates: |                                    |
| <b>Modell Nummer / Model number:</b>                                | 1985                               |

### Improvement of initial Anti-Rollback (ARB) components

Due to an incident at a flume ride, based on a conveyor belt fracture, it was determined, that the original design of the ARB system could be enhanced.

The respective design is of lateral flaps installed at the lift structure, which shall interact with the gear racks installed on either side of the boats, see example:



Following measures are to be taken.

1, use qualified belt material from known manufacturers eg Continental or Dunlop only.

rubber transportation belt

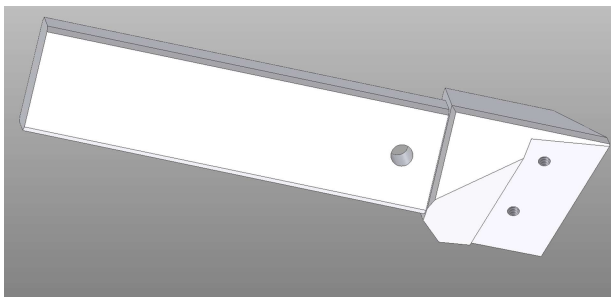
650 mm wide, EP 400/3, 3,5 : 3 mm cover

Normal Quality,

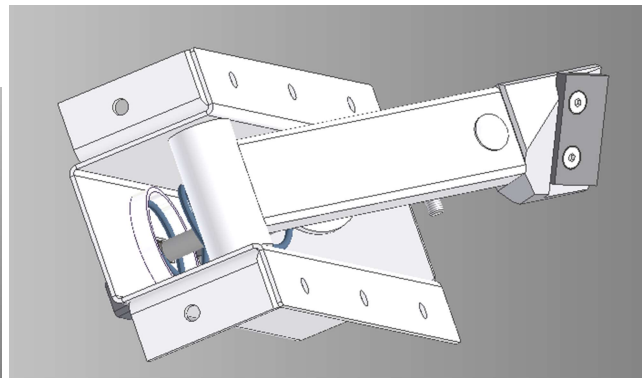
'Rufftop' surface

2, have the splicing of the belt be done on site in accordance with the directives of the belt manufacturer and by a qualified technician only.

3, exchange the Polyamid rods of all the lateral flaps by the new design, in Aluminium and with an adapted geometry, see:



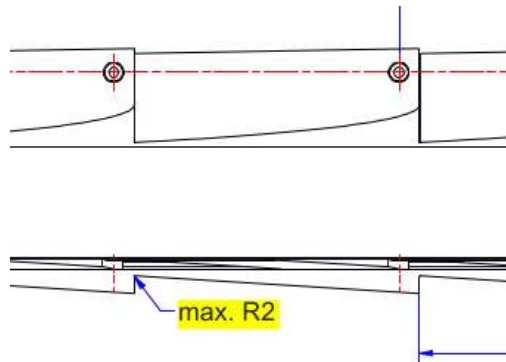
rod



assembly

4, install two additional sets of flaps at the top of the lift crown.

5, rework the gear racks on the boat, reduce the existing radius to a maximum of  $R = 2,0$  mm ('sharpening' the corners).



We recommend to get in contact with us to coordinate the next steps and details in good time.

**Mack Rides GmbH & Co KG**

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Frieder Rehm  
Head of Mack Services