

TB-GEN005

## TECHNICAL BULLETIN

INFORMATION ONLY

---

**For the Attention of :** Graham Mears, Paul Ayers, Peter Amura, Larry Power,  
Technical Dept, Site Supervisors, Testers

**From:** Angelos Strantzalis

**Date :** 03 Nov 2014

**Subject :** **Setting of Overtravel on Kleemann and MP**

**Product:** All

**Pages :** 3

---

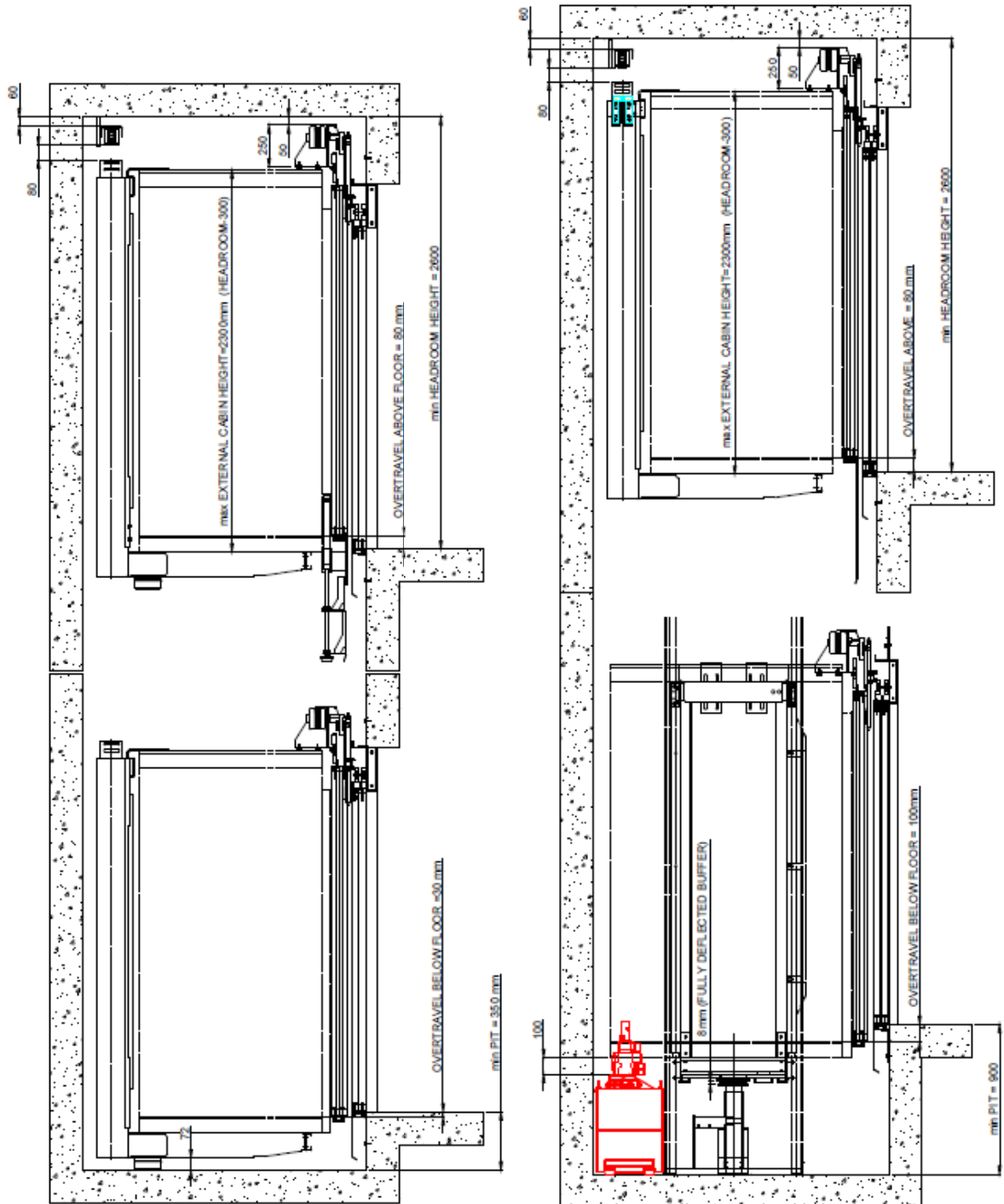
### **Background**

Based on job ST340100 (Lanchester Community Free School) where we had to apply for a DEC due to the reason that the lifting beam was lower than expected by 30 mm (or FFL was raised by 30mm), we made this bulletin regarding both products (MP and Kleemann) on setting upper and lower overtravel limits in order to avoid in the future Design Examination Certificate (DEC) expenses on similar cases where both Pit and Headroom dimensions are slightly undersized.

### **Kleemann**

Kleemann on their manual show the minimum upper overtravel that can be set with their product (hydraulic lift) to be 80mm (Figure 1) to maximum 130-140mm in order to be able to open the lift doors when the lift reach the final upper limit. The limit switch on the pulley can be adjusted accordingly. The 80mm is the absolute minimum upper overtravel limit due to ram's dumping zone.

The lower overtravel can be set from minimum 0mm (theoretically) to maximum 120mm in order again not to exceed the door unlocking zone and depends whether we want the sling to touch the buffer or not and by how much distance to have from.



TOTAL OVERTRAVEL BELOW 100mm = 30mm SPACE + 72mm BUFFER DEFLECTION

Figure 1: Kleemann Upper and Lower Overtravel Setting (Installation Manual).

## **MP**

MP suggested that would like us not affect the standard overtravel dimensions, although in cases where headroom or pit is limited we can do small adjustments up to 20 – 25mm. Standard is the overtravel before the lift to touch the buffer and before starting to compress the buffer (the compression of the buffer both for traction and hydraulic lifts is set by EN81 and varies from buffer to buffer).

So for lifts with speed up to 1 m/sec have Standard overtravel of 50mm and the absolute minimum can be down to 30mm in cases where we have tight headrooms and pits. This applies for both upper and lower overtravels for both GO! and GO! Flex products.

In cases where we have speed 1.6 m/sec the Standard upper and lower overtravels are set to 100mm, giving although the opportunity to reduce them to 50mm if again pit and headroom are limited.

## **Summary**

In future projects where we cannot comply to EN81 for pit and headroom clearances (safety space) due to small dimension divergence, overtravels can be adjusted according to absolute minimum described above in order to comply with standards and avoid Design Examination Certificates.

If you have any questions please call me on 01264 343646

**End**