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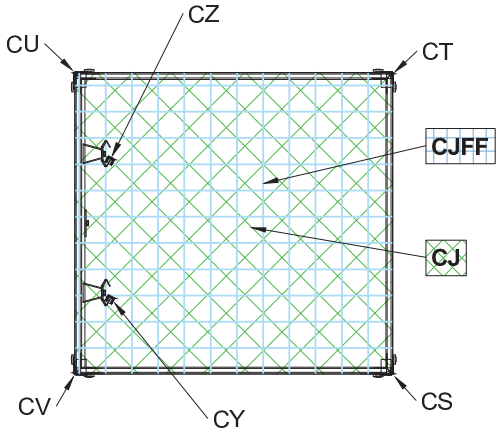
MICROLIFT PIT REACTIONS & LOADS, No Safety Gears For Models DD50, 50A & 50B

For guidance only

Stannah



Reaction	Total Load (N)
DL	12,608
CZ	N/A
CY	N/A
CJ	16,363
CJFF	38,407

NOTES :
1. Do not add the loads in the above table together!
2. None of the five loads in the above table occur concurrently!
3. Normally the worst case value of the five loads above would be taken into consideration.
4. Please refer to the below information and detail for a further explanation of the load values and reference standards etc.

LIFT SPECIFICS
Job No: PID47237 **Site**: Oxfam GB Salisbury
Model : 50CU
Load : 100KG
Floors Served : 2
Pit/Serving Height : 800mm

'DL' - Is the downward dead load, which is the weight of the complete lift equipment including the rated load. This load is transferred through the four corners of the structure CS+CT+CU+CV and these values are added together to give one load across the foot print of the lift on the pit floor during normal operation of the lift and the value is indicated in the **orange** row in the table above.

'CZ' - Is the loads transferred through the four corners of the structure CS+CT+CU+CV in the event of the counterweight safety gear activation on the guide rail 'CZ'. These figures are added together and indicated in the **yellow** row.

$$CZ' = \left(\text{Peso}_{\text{guide}} + \frac{\text{K1}*\text{Pcw}}{\text{n}}\right)*\text{gn} \qquad \text{(UNI EN 81-20:2014 par. 5.7.2.3.5)}$$

'CY' - Is the load transferred through the four corners of the structure CS+CT+CU+CV in the event of the car safety gear activation on the guide rail 'CY'. These figures are added together and indicated in the **purple** row.

$$CY' = \left(\text{Peso}_{\text{guide}} + \frac{\text{K1}*(\text{P}+\text{Q})}{\text{n}}\right)*\text{gn} \qquad \text{(UNI EN 81-20:2014 par. 5.7.2.3.5)}$$

'CJ' - This is the impact load on the pit floor and the value is achieved by using the loads transferred through the four corners of the structure CS/CT/CU/CV and the fully loaded lift car over-travelling 'CJ'. These figures are added together and the value is indicated in the **green** row of the table above.

$$CJ' = \frac{4\times\text{gn}\times(\text{P}+(1{,}1\times\text{Q}))}{\text{b}} \qquad \text{(UNI EN 81-20:2014 par. 5.2.1.8.5)}$$

'CJFF' - This is the worst case scenario for impact on the pit floor and the value is achieved by using the loads transferred through the four corners of the structure CS/CT/CU/CV and the free fall impact load without safety gear 'CJFF'. These figures are added together and the total value is indicated in the **blue** row of the table above.

$$\text{CJFF}' = \frac{(\text{gn}\times(\text{P}+\text{Q}))\times\text{C}}{\text{Sd}\times\text{b}}$$

All Dimensions Are In mm, Unless Otherwise Stated

Waiver: This data sheet is for guidance only & must not be used to scale or proper working drawings. Please contact Stannah Microlifts for particular details before proceeding. Owing to our policy of continual improvement, we reserve the right to alter specifications & dimensions without prior notice.

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