

DESIGN CRITERIA FOR CRANE BUFFERS

Customer/ User _____

Project _____

1. Operation speed on track $v_s =$ _____ m/s
2. Impact speed at track end $v_e =$ _____ m/s
3. Power- off switch at track end ☐ yes ☐ no
4. Average impact height above top of rail $h =$ _____ mm
5. Total impact load of each buffer ^{*1)} $M_{\text{buffer}} =$ _____ kg
6. Mass of loading bridge $m_{\text{bridge}} =$ _____ kg
7. Mass of trolley $m_{\text{trolley}} =$ _____ kg
8. Total mass of load $m_{\text{load}} =$ _____ kg
9. Max load capacity ☐ swinging ☐ fixed
10. Weight of crane (incl. load, trolley and loading bridge) $m_{\text{total}} =$ _____ kg
11. Gauge of crane rail way $l =$ _____ m
12. Rail section = _____ actual height = _____ mm
13. Rail fastening on ☐ on sleeper ☐ direct fixation on concrete
☐ others: _____
14. Buffer existing at crane ☐ yes ☐ no
If „yes“: Buffer type: _____
Energy absorption $E_{\text{kin}} =$ _____ kJ
max. End- force $F_{\text{max.}} =$ _____ kN
Stroke of buffer $l_{\text{stroke}} =$ _____ mm

Other details: _____

*1) In case, this load is known, the questions under 6,7 and 8 need not to be answered