

# Input data for calculation of slab on ground



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Input data for calculation after Technical Report 34 (TR 34), annex F

<b>Project:</b>		<b>Date:</b>
<b>Reference:</b>		
<b>Project owner:</b>		<b>Signature:</b>
<b>Address:</b>		
<b>E-mail:</b>		
<b>Telephone:</b>		

<b>Uniform distributed load</b>		kN/m <sup>2</sup> _____																					
<b>Fork lifter</b>		<table border="1"> <thead> <tr> <th>DIN 1055-3</th> <th>G1</th> <th>G2</th> <th>G3</th> <th>G4</th> <th>G5</th> <th>G6</th> </tr> </thead> <tbody> <tr> <td>Total weight (kN)</td> <td>31</td> <td>46</td> <td>69</td> <td>100</td> <td>150</td> <td>190</td> </tr> <tr> <td>Total weight (tons)</td> <td>3,1</td> <td>4,6</td> <td>6,9</td> <td>10,0</td> <td>15,0</td> <td>19,0</td> </tr> </tbody> </table> <p style="text-align: center;"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </p> <p>Individual input: _____ total weight</p>	DIN 1055-3	G1	G2	G3	G4	G5	G6	Total weight (kN)	31	46	69	100	150	190	Total weight (tons)	3,1	4,6	6,9	10,0	15,0	19,0
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Total weight (kN)	31	46	69	100	150	190																	
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<b>Truck</b>		<table border="1"> <thead> <tr> <th>Truck 12 tonn</th> <th>Truck 30 tonn</th> </tr> </thead> <tbody> <tr> <td>Truck 16 tonn</td> <td>Truck 60 tonn</td> </tr> <tr> <td>Truck 24 tonn</td> <td></td> </tr> </tbody> </table> <p>Axel load = total weight / 2 Wheel load = total weight / 4</p> <p>Individual input: _____ ton total weight</p>	Truck 12 tonn	Truck 30 tonn	Truck 16 tonn	Truck 60 tonn	Truck 24 tonn																
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<b>Rack system</b>		<p>_____ kN Shaft load</p> <p>_____ x _____ mm Footplates size</p> <p>(a) _____ mm Stem distance</p> <p>(b) _____ mm Stem distance</p> <p>(c) _____ mm Shelf space</p>																					
<b>Single load</b>		_____ kN _____ x _____ cm Footplate size																					
<b>Line load</b>		_____ kN/m Minimum distance line load _____ mm																					

<b>Joint distance:</b>	<table border="1"> <tr> <td>Cut joints 6 x 6 m</td> <td>100</td> <td>110</td> <td>120</td> <td>130</td> <td>140</td> <td>150</td> <td>160</td> <td>170</td> <td>180</td> <td>190</td> <td>200</td> </tr> <tr> <td>Cut joints 8 x 8 m</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>Slab thickness in mm. If joint less solution, <b>Mapecrete® System</b>, The thickness must be at least 120 mm.</p> <p>Joint less floor – <b>Mapecrete® System</b>: _____ x _____ m distance</p>	Cut joints 6 x 6 m	100	110	120	130	140	150	160	170	180	190	200	Cut joints 8 x 8 m																	
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<b>Concrete Quality:</b>	<input type="checkbox"/> C15/20 <input type="checkbox"/> C20/25 <input type="checkbox"/> C25/30 <input type="checkbox"/> C30/37 <input type="checkbox"/> C35/45 <input type="checkbox"/> C45/55																														
<b>Climate:</b>	<p>Casting: <input type="checkbox"/> Only creeding <input type="checkbox"/> 1.stage polishing <input type="checkbox"/> heavy polishing</p> <p>Surface treatment: <input type="checkbox"/> No treatment <input type="checkbox"/> Epoxy <input type="checkbox"/> Dry shake <input type="checkbox"/> Tiles/wood</p> <p><input type="checkbox"/> Other: _____</p>																														
<b>Subgrade:</b>	<input type="checkbox"/> Well compacted, stable sub grade $E_{v2}=120 \text{ MN/m}^2$ <input type="checkbox"/> Acceptable compaction $E_{v2} = 80 \text{ MN/m}^2$																														
	Individual input: $E_{v2}$ : _____ $\text{MN/m}^2$ $E_{v1}/E_{v2}$ : _____																														
<b>Insulation</b>	<table border="1"> <thead> <tr> <th>Type</th> <th>Short term 10% (kPa)</th> <th>Long term 2% (kPa)</th> <th>E long term (kPa)</th> <th>Individual:</th> </tr> </thead> <tbody> <tr> <td>No insulation</td> <td></td> <td></td> <td></td> <td>Name:</td> </tr> <tr> <td>EPS S80</td> <td>80</td> <td>24</td> <td>4000</td> <td>Short term 10% (kPa)</td> </tr> <tr> <td>EPS S150</td> <td>150</td> <td>45</td> <td>4000</td> <td>Long term 2% (kPa)</td> </tr> <tr> <td>XPS 200</td> <td>200</td> <td>60</td> <td>5000</td> <td>E (kPa)</td> </tr> <tr> <td>XPS 300</td> <td>300</td> <td>90</td> <td>6500</td> <td></td> </tr> </tbody> </table> <p>Thickness: _____ mmm</p>	Type	Short term 10% (kPa)	Long term 2% (kPa)	E long term (kPa)	Individual:	No insulation				Name:	EPS S80	80	24	4000	Short term 10% (kPa)	EPS S150	150	45	4000	Long term 2% (kPa)	XPS 200	200	60	5000	E (kPa)	XPS 300	300	90	6500	
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<b>Fibre type</b>	<input type="checkbox"/> Choose optimum <input type="checkbox"/> DE 50/1,0 N <input type="checkbox"/> DE 50/0,75 N																														
	*) Only Steelfibre DE 50/0,75 N when jointless floor, <b>Mapecrete® System</b>																														