MAXIMUM ALLOWABLE PAYLOAD FOR VEHICLE COMBINATIONS

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1: INFORMATION & PROCEDURES

INSPECT: Manufacturer data plates, tyre ratings
MEASURE: axles/axle units & total length; C-C of extreme axles
WEIGH: Unladen mass of axles/axle units
LOAD: Payload (t) for each semi-trailer axle/axle units

CALCULATE: (3) Permissible maximum combination mass (PMCM)

CHECKS: (5) Compliance of tyres, rims, wheel and axle group loads
CHECKS: (5) Compliance of Power, traction and steering
CHECKS: (5) Overall dimensions & bridge formula compliance

2: HOW TO DETERMINE THE PERMISSIBLE MAXIMUM COMBINATION MASS (PMCM) OF A VEHICLE CONFIGURATION

**MASS LIMIT REGULATIONS:**

**COLOR KEY: MINIMUM REQUIREMENT**

**COLOR KEY: MAXIMUM LIMIT**

**TEXT COLOR KEY: HEADINGS / REFERENCE / RULE / EXAMPLE**

3: EXAMPLE: PMCM DETERMINATION: HAULAGE TRACTOR

4: EXAMPLE: PMCM DETERMINATION: TRAILXLE

5: CHECKS

National Road Traffic Act-Reg. 240 (Defined maximum axle loads)

<table>
<thead>
<tr>
<th>REG 240</th>
<th>(Max. axle load)</th>
<th>STEERING</th>
<th>NON-STEERING</th>
<th>NON-STEERING</th>
</tr>
</thead>
<tbody>
<tr>
<td>per wheel</td>
<td>3850kg</td>
<td>4000kg</td>
<td>9000kg</td>
<td></td>
</tr>
<tr>
<td>per axle</td>
<td>7700kg</td>
<td>8000kg</td>
<td>18000kg</td>
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<tr>
<td>2 axle unit</td>
<td>15400kg</td>
<td>16000kg</td>
<td>24000kg</td>
<td></td>
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<tr>
<td>3 axle unit</td>
<td>23100kg</td>
<td>24000kg</td>
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</tbody>
</table>

**POWER & AXLE LIMITS**

**TRACTION**

**STEERING**

**BRIDGE FORMULA**

**TYRES**

**MASS LIMITS**

**DIMENSIONAL LIMITS**

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