**Proposal for the requirement of N1 vehicle.**

**C2C:**

**Maximum relative Impact Speed(km/h) for N1 vehicle**

|  |  |  |
| --- | --- | --- |
|  | **Stationary** | **Moving** |
| **Relative Speed****(km/h)** | **Full laden** | **Mass running order** | **Full laden** | **Mass running order** |
| **Column**\* | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| **10** | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| **15** | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| **20** | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| **25** | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| **30** | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| **32** | 0,00 | 15,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| **35** | 0,00 | 15,00 | 0,00 | 0,00 | 0,00 | - | 0,00 | 0,00 |
| **38** | 0,00 | 20,00 | 0,00 | 0,00 | 0,00 | - | 0,00 | 0,00 |
| **40** | **10,00** | 20,00 | 0,00 | 15,00 | - | - | 0,00 | 0,00 |
| **42** | **15,00** | 25,00 | 0,00 | 20,00 | - | - | 0,00 | - |
| **45** | **20,00** | 25,00 | 15,00 | 25,00 | **-** | **-** | **-** | - |
| **50** | **30,00** | 35,00 | 25,00 | 30,00 | **-** | **-** | **-** | - |
| **55** | **35,00** | 40,00 | 30,00 | 35,00 | **-** | **-** | **-** | **-** |
| **60** | **40,00** | 45,00 | 35,00 | 40,00 | - | - | - | - |

\*: $α=\frac{W\_{r}}{W}×\frac{L}{H}$

 ($W\_{r}$: Front wheel weight, $W$: Weight, $L$: Length of wheel base, $H$: Gravity height)

The value of $α$ is calculated by above formula:

The value of $α$ is larger than 1.3, the requirements are subject to column 1.

The value of $α$ is less equal than 1.3, the requirements are subject to column 2.

**C2P:**

**Maximum relative Impact Speed(km/h) for N1 vehicle 1st step**

|  |  |  |
| --- | --- | --- |
| **Relative Speed****(km/h)** | **Full laden** | **Mass running order** |
| **Column**\* | 1 | 2 | 1 | 2 |
| **20** | 0,00 | 0,00 | 0,00 | 0,00 |
| **25** | 0,00 | 10,00 | 0,00 | 0,00 |
| **30** | 0,00 | 15,00 | 0,00 | 15,00 |
| **35** |  | 25,00 |  | 20,00 |
| **40** |  | 30,00 |  | 25,00 |
| **45** |  | 35,00 |  | 30,00 |
| **50** |  | 40,00 |  | 35,00 |
| **55** |  | 45,00 |  | 45,00 |
| **60** |  | 50,00 |  | 50,00 |

\*: $α=\frac{W\_{r}}{W}×\frac{L}{H}$

 ($W\_{r}$: Front wheel weight, $W$: Weight, $L$: Length of wheel base, $H$: Gravity height)

The value of $α$ is calculated by above formula:

The value of $α$ is larger than 1.3, the requirements are subject to column 1.

The value of $α$ is less equal than 1.3, the requirements are subject to column 2.

**C2P:**

**Maximum relative Impact Speed(km/h) for N1 vehicle 2nd step**

|  |  |  |
| --- | --- | --- |
| **Relative Speed****(km/h)** | **Full laden** | **Mass running order** |
| **Column**\* | 1 | 2 | 1 | 2 |
| **20** | 0,00 | 0,00 | 0,00 | 0,00 |
| **25** | 0,00 | 0,00 | 0,00 | 0,00 |
| **30** | 0,00 | 0,00 | 0,00 | 0,00 |
| **35** | 0,00 | 15,00 | 0,00 | 0,00 |
| **40** | 0,00 | 20,00 | 0,00 | 15,00 |
| **42** | 10,00 | 25,00 | 0,00 | 20,00 |
| **45** | [15,00] | 25,00 | [15,00] | 25,00 |
| **50** | [25,00] | 35,00 | [25,00] | 30,00 |
| **55** | [30,00] | 40,00 | [30,00] | 35,00 |
| **60** | [35,00] | 45,00 | [35,00] | 40,00 |

\*: $α=\frac{W\_{r}}{W}×\frac{L}{H}$

 ($W\_{r}$: Front wheel weight, $W$: Weight, $L$: Length of wheel base, $H$: Gravity height)

The value of $α$ is calculated by above formula:

The value of $α$ is larger than 1.3, the requirements are subject to column 1.

The value of $α$ is less equal than 1.3, the requirements are subject to column 2.