





| EN | 1317 – Roa | ad Restraint Systems |
|-----------------------|-----------------|--|
| Des | EN 1317-1:1998 | Terminology and general criteria for test methods |
| | EN 1317-2:1998 | Performance classes, impact test acceptance criteria and test methods for safety barriers |
| | EN 1317-3:2000 | Performance classes, impact test acceptance criteria and test methods for crash cushions |
| | ENV 1317-4:2002 | Performance classes, impact test acceptance criteria and test methods for terminals and transitions of safety barriers |
| | EN 1317-5:2007 | Product requirements, durability and evaluation of conformity for vehicle restraint systems (= harmonized part) |
| and the second second | prEN 1317-6: | Pedestrian restraint systems |
| | Technical Semi | inar on Concrete Safety Barriers - Brussels - 9 June 2009 |





| Containment | Level | Tests | |
|-------------|-------|---------------|-----|
| ow angle | T1 | TB 21 | - |
| | T2 | TB 22 | |
| | T3 | TB 41+ TB 21 | - |
| Normal | N1 | TB31 | |
| | N2 | TB 32 + TB 11 | |
| High | H1 | TB 42 + TB 11 | |
| | H2 | TB 51 + TB11 | |
| | H3 | TB 61 + TB 11 | TEL |
| Very high | H4a | TB 71 + TB 11 | |
| | H4b | TB 81 + TB 11 | |

| EN 1317 | 7-1 & | 2 Test | S | | |
|---------|-------|----------------------|--------------|-----------------|--------------|
| Τε | est | Type of vehicle | Mass (kg) | Speed (km/h) | Angle (°) |
| TE | B 11 | Car | 900 | 100 | 20 |
| TE | B 21 | Car | 1300 | 80 | 8 |
| TE TE | B 22 | Car | 1300 | 80 | 15 |
| TE | B 31 | Car | 1500 | 80 | 20 |
| TE TE | B 32 | Car | 1500 | 110 | 20 |
| TE | B 41 | Rigid truck | 10 000 | 70 | 8 |
| TE | B 42 | Rigid truck | 10 000 | 70 | 15 |
| TE | B 51 | Bus | 13 000 | 70 | 20 |
| TE | B 61 | Rigid truck | 16 000 | 80 | 20 |
| TE | B 71 | Rigid truck | 30 000 | 65 | 20 |
| TE | B 81 | Articulated truck | 30 000 | 65 | 20 |















| Containment | Level | Tests |
|-------------|-------|-----------------------------------|
| Low angle | T1 | TB 21 |
| | T2 | TB 22 |
| | Т3 | TB 41+ TB 21 |
| Normal | N1 | TB31 |
| | N2 | TB 32 + TB 11 |
| Higher | H1 | TB 42 + TB 11 |
| | L1 | TB 42 + TB 32 + TB 11 |
| | H2 | TB 51 + TB11 |
| | L2 | TB 51 + TB 32 + TB 11 |
| | H3 | TB 61 + TB 11 |
| | L3 | TB 61 + TB 32 + TB 11 |
| Very high | H4a | TB 71 + TB 11 |
| | H4b | TB 81 + TB 11 |
| | L4a | TB 71 + TB 32 + TB 12 |
| | L4b | TB 81 + TB 32 + TB 1 ² |























