

Proposal of impact zone for headform impactor test

Definition of reference lines

Definition of impact zones

Definition of criteria

Proposal has to be confirmed by further test results

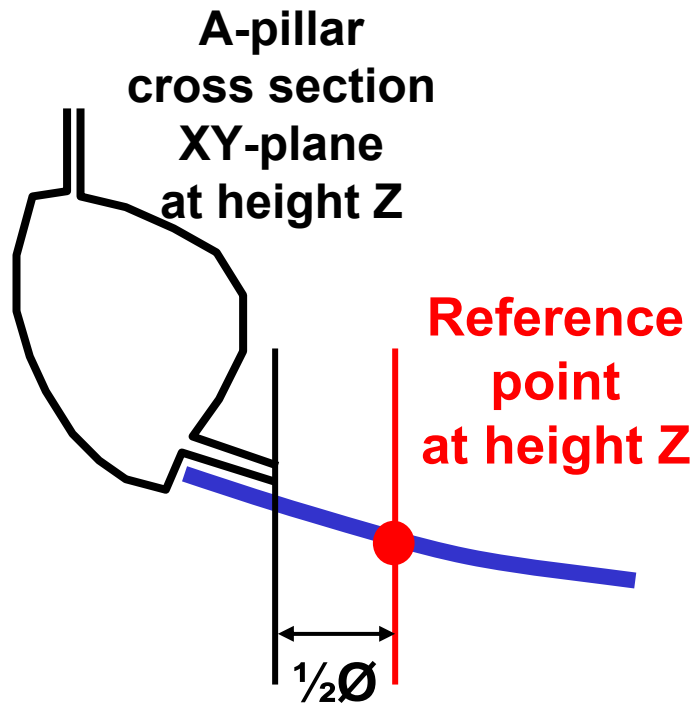
Definition of reference lines

The reference lines are addressed to the vector of the impact velocity of the headform impactor

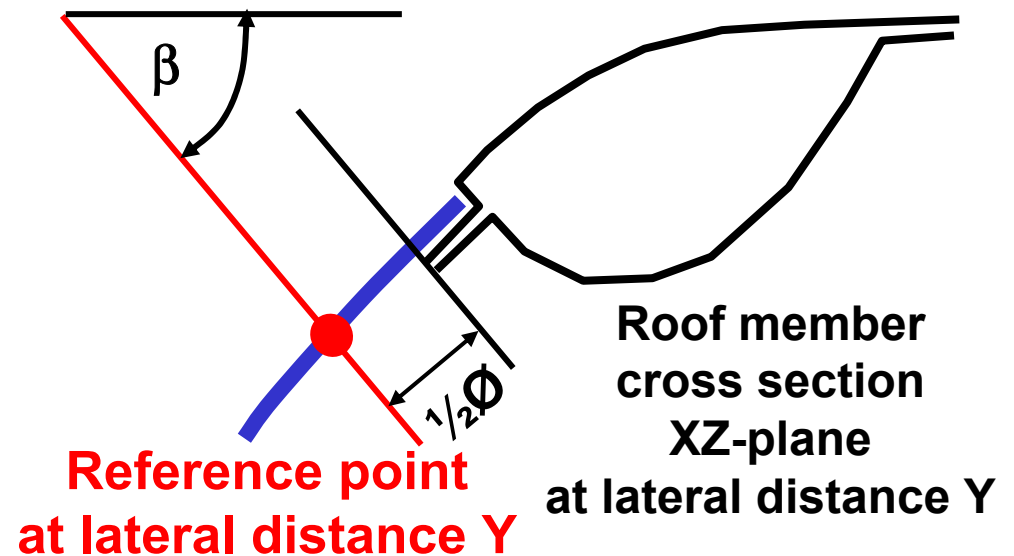
**The reference lines are defined
in a longitudinal plane
under the respective impact angle β**

Definition of the side and upper reference lines:

Top view for side line



Side view for upper line

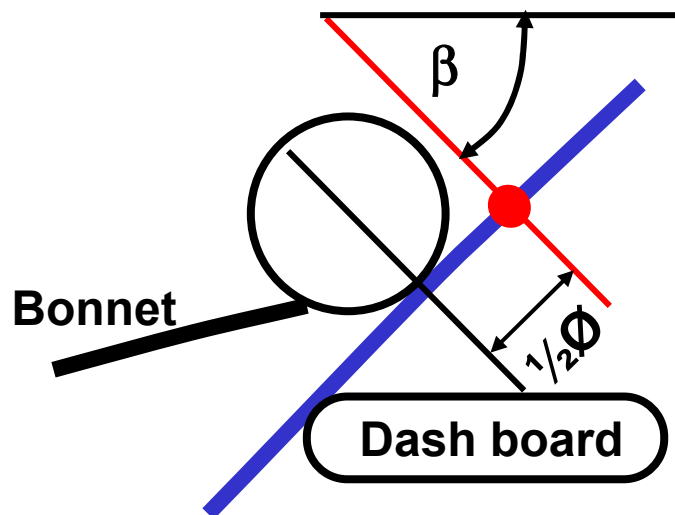


Definition of the lower reference line:

**Low dashboard
side view**

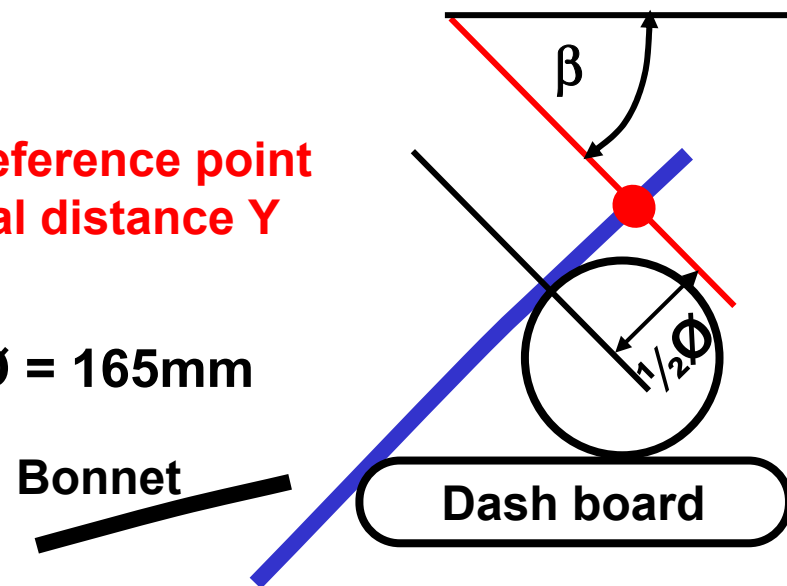
Lower windscreen area
cross section
XZ-plane
at lateral distance Y

**High dashboard
side view**



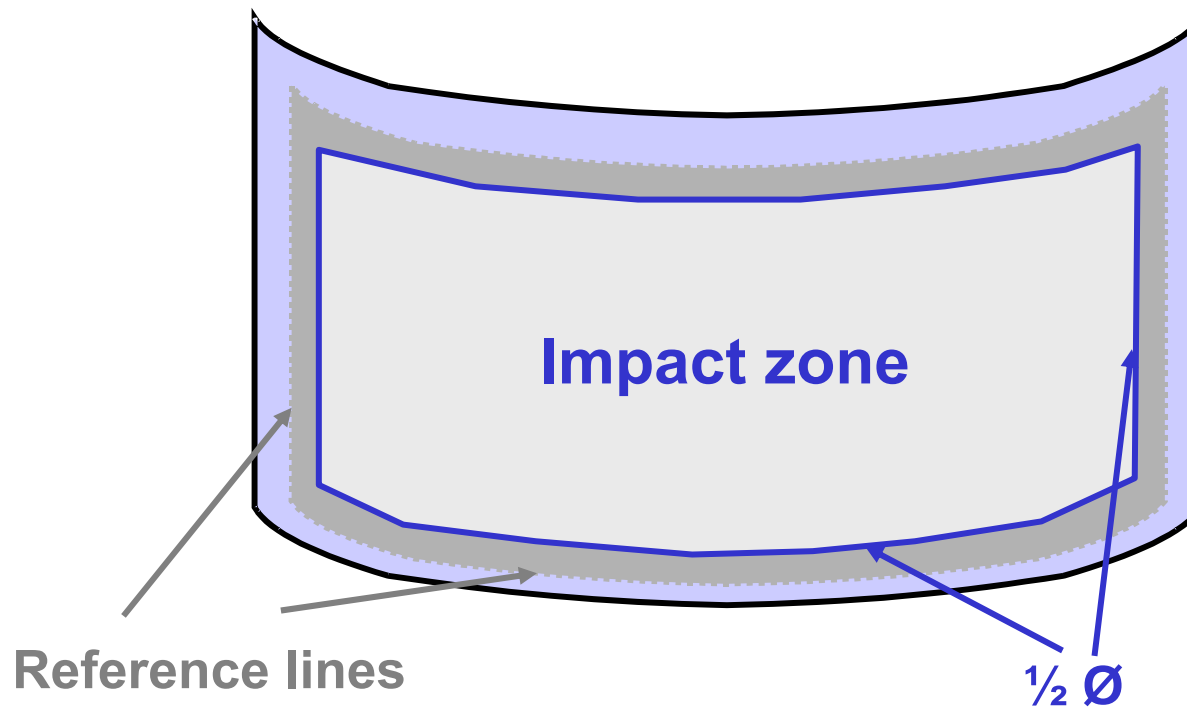
**Lower reference point
at lateral distance Y**

Sphere: $\phi = 165\text{mm}$



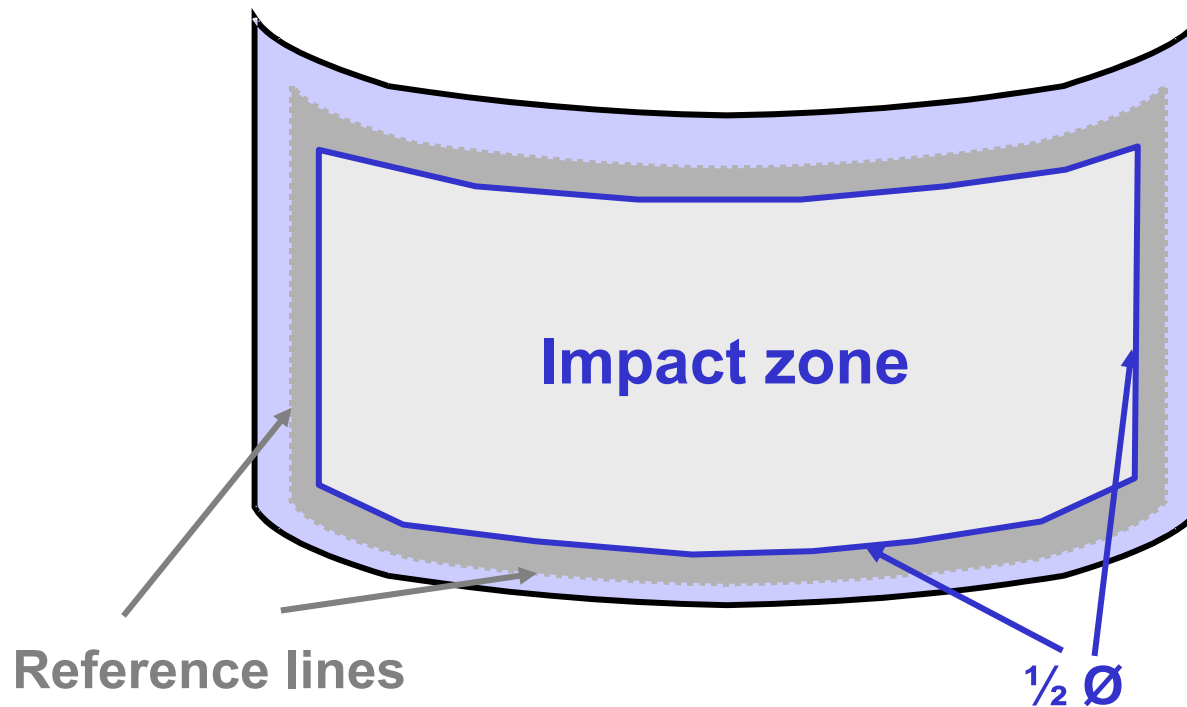
Definition of impact zone:

$\frac{1}{2} \text{ } \emptyset$ inside the reference lines



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$\frac{1}{2} \text{ } \emptyset$ inside the reference lines



Definition of HIC criteria:

HIC is less than 1000 in the impact zone

