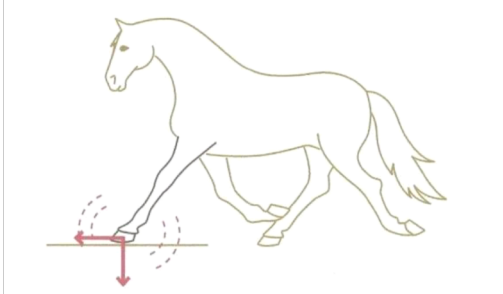


SIMPLE INTERACTION BETWEEN HOOF AND RIDING SURFACE

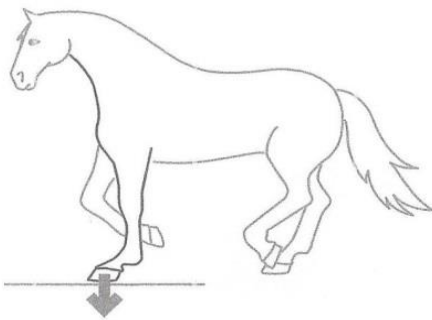
cited from "Equestrian Surface – a Guide" by the Swedish Equestrian Federation April 2014



HOOF LANDING AND BRAKING PHASE:

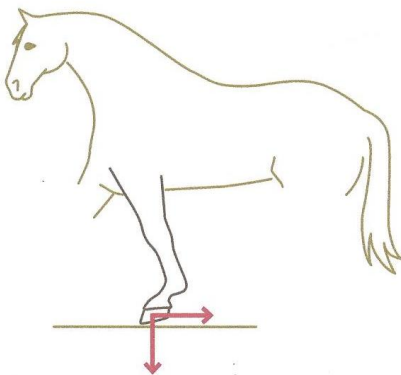
The harder the surface and the more grip it has, the more shock waves and vibrations the leg experiences.

The hoof is pushed forward into the surface from above, while the top-layer of the surface provides traction. How well is the footing functioning..... What is the length of grip?



SUPPORT PHASE:

When the hoof stops sliding/braking and is in full contact with the ground. How well is the footing functioning.....What is the depth of imprint?



ROLLOVER PHASE:

At the end of the support phase, the horse braces the hoof against the ground propelling the leg forward.

At that moment, surface grip (friction and shear strength) is important for the hoof to get sufficient traction.

This final phase before the hoof leaves the ground is called Rollover (brakeover). The hoof lifts at the heels first and “rolls over” the toe. How well is the footing functioning.....What is the depth of rollover?