

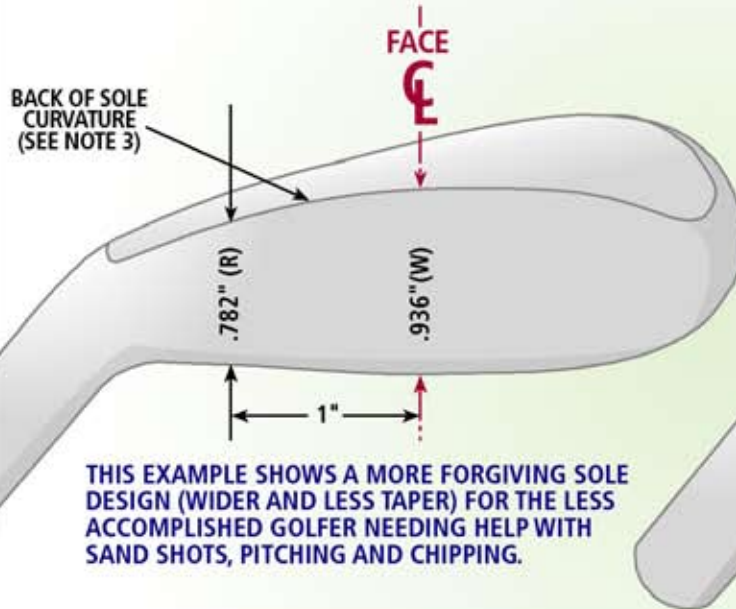
SCALE 1:1

HOW TO CALCULATE SOLE WIDTH TAPER PERCENTAGE

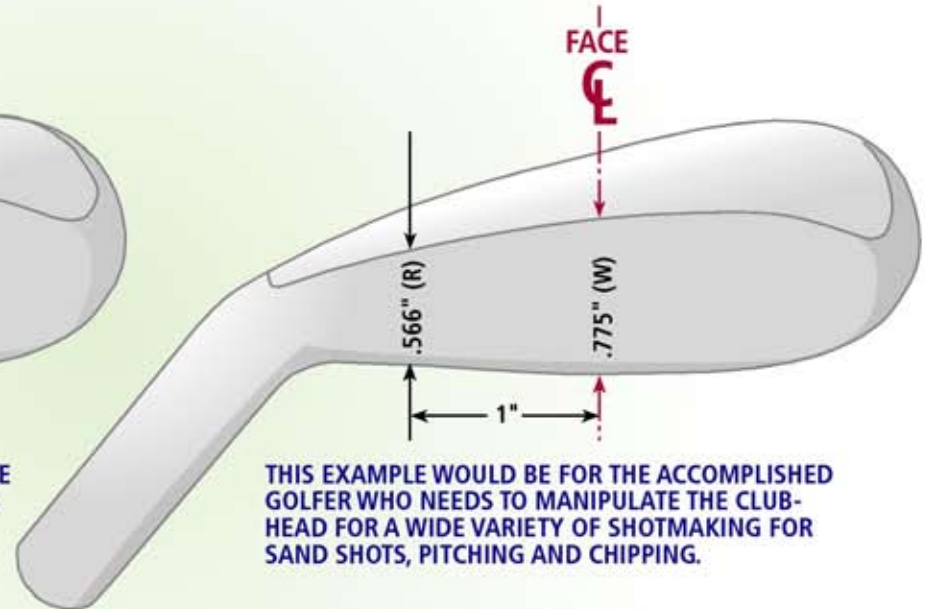
From Face Center To 1" Toward The Heel On Wedges

THE POINT: The point to this illustration is that a lesser sole taper percentage (16.5% in this example) is a more playable wedge for less skilled players on sand shots, chipping and pitching. The higher sole width taper percentage (27% in this example) is for a more accomplished player who desires the face leading edge to be closer to the ground for sand shots, chipping and pitching. Remember that the narrower sole in the heel reduces the effective bounce as you impact the sole with the ground when the toe is more up in the air at impact (more upright lie angle at impact). This also has the effect of lowering the leading edge height as you impact the ground or sand toward the heel of the sole.

THE SOLE WIDTH TAPER FROM .936" TO .782" IS 16.5%



THE SOLE WIDTH TAPER FROM .775" TO .566" IS 27%



NOTES:

1. Measuring Method For Sole Width = Designed Sole Width (See Figure 12-2 on p. 468).
2. The Sole Width measurements shown are examples only, but they do represent actual wedges. Many wedges in both normal and wider soles have taper percentages that are also the reverse of the above examples.
3. There are two additional factors that affect playability regarding Sole Width Taper. The first is the Amount of Curvature at the back of the sole (i.e., is it straight, slightly curved or curved?) The second is the possibility that the designer changes the Front to Back Sole Radius from the Face Center Location vs. the Heel Location.
4. A ruler can be used to measure sole width, but a vernier caliper works the best. If necessary, a black grease pencil can be used to mark the center of the sole and 1" rearward to aid in measuring.

SOLE TAPER CALCULATION

SOLE WIDTH @ FACE CENTER	_____ (W)
SOLE WIDTH 1" REARWARD OF FACE CENTER	_____ (R)
PERCENTAGE OF SOLE TAPER	$(W-R) \div (W) = \text{_____} \%$

SOLE TAPER CALCULATION (Example)

SOLE WIDTH @ FACE CENTER	<u>.936"</u> (W)
SOLE WIDTH 1" REARWARD OF FACE CENTER	<u>.782"</u> (R)
PERCENTAGE OF SOLE TAPER	$(W-R) \div (W) = \underline{.154} \div \underline{.936} = \underline{16.5} \%$