### 2010 RULES - CLUB FACE MARKINGS (Appendix II, 5)

### c. Impact Area Markings

If a club has grooves and/or punch marks in the impact area they must meet the following specifications:

### (i) Grooves

- Grooves must be straight and parallel.
- Grooves must have a plain\*, symmetrical cross-section and have sides which do not converge (see Fig. XI).

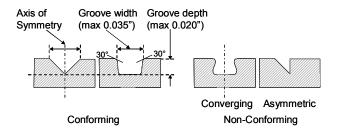
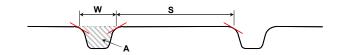


Fig. XI

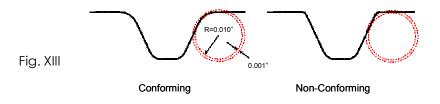
- The width, spacing and cross-section of the grooves must be consistent throughout the impact area.
- The width (W) of each groove must not exceed 0.035 inches (0.9 mm), using the 30 degree method of measurement on file with The R&A.
- The distance between edges of adjacent grooves (S) must not be less than three times the width of the grooves, and not less than 0.075 inches (1.905 mm).
- The depth of each groove must not exceed 0.020 inches (0.508 mm).
- \* For clubs other than driving clubs, the cross-sectional area (A) of a groove divided by the groove pitch (W+S) must not exceed 0.0030 square inches per inch (0.0762 mm²/mm) (see Fig. XII).

$$\frac{A}{W+S} \le 0.0030 in^2 / in$$

Fig. XII



- Grooves must not have sharp edges or raised lips.
- \* For clubs whose loft angle is greater than or equal to 25 degrees, groove edges must be substantially in the form of a round having an effective radius which is not less than 0.010 inches (0.254 mm) when measured as shown in Fig. XIII, and not greater than 0.020 inches (0.508 mm). Deviations in effective radius within 0.001 inches (0.0254 mm) are permissible.



#### (ii) Punch Marks

- The maximum dimension of any punch mark must not exceed 0.075 inches (1.905 mm).
- The distance between adjacent punch marks (or between punch marks and grooves) must not be less than 0.168 inches (4.27 mm), measured from centre to centre.
- The depth of any punch mark must not exceed 0.040 inches (1.02 mm).
- Punch marks must not have sharp edges or raised lips.
- \* For clubs whose loft angle is greater than or equal to 25 degrees, punch mark edges must be substantially in the form of a round having an effective radius which is not less than 0.010 inches (0.254 mm) when measured as shown in Figure XIII, and not greater than 0.020 inches (0.508 mm). Deviations in effective radius within 0.001 inches (0.0254 mm) are permissible.

Note 1: The groove and punch mark specifications above marked with an asterisk (\*) apply only to new models of clubs manufactured on or after 1 January 2010.

Note 2: Effective 1 January 2010, the Committee may require, in the conditions of competition, that the clubs the player uses must conform to the groove and punch mark specifications above marked with an asterisk (\*). This condition is recommended only for competitions involving the highest level of expert player.

## d. Decorative Markings

The centre of the impact area may be indicated by a design within the boundary of a square whose sides are 0.375 inches (9.53 mm) in length. Such a design must not unduly influence the movement of the ball. Decorative markings are permitted outside the impact area.

#### e. Non-metallic Club Face Markings

The above specifications do not apply to clubheads made of wood on which the impact area of the face is of a material of hardness less than the hardness of metal and whose loft angle is 24 degrees or less, but markings which could unduly influence the movement of the ball are prohibited.

# f. Putter Face Markings

Any markings on the face of a putter must not have sharp edges or raised lips. The specifications with regard to roughness, material and markings in the impact area do not apply.