

Positioning insert (10) for determining the position of a fresh fuel assembly (2) in a storage system (1) for fresh fuel assemblies (2) is made of a material suitable for contact with fresh fuel assemblies (2), and comprises a cylindrical portion (11) for insertion into an opening (6) in a plate (4, 5) of the storage system (1) and a flanged portion (27) for contacting the plate (4, 5) of the storage system (1) circumferentially of the opening (6) in the plate (4, 5). Wherein, the cylindrical portion (11) comprises: a radially disposed inner portion (12) with an inner surface (13) and an outer surface (18). The inner surface (13) is formed by a contact surface (15) extending in the direction of the axis of the positioning insert to form a central opening (14) in the positioning insert (10), which defines the position of the fuel assembly (2) within the storage system (1). In the operating orientation, the upper part of the contact surface (15) transitions into an upper inclined surface (16), and the lower part of the contact surface (15) transitions into a lower inclined surface (17) to guide the fuel assembly (2) into the central opening (14) of the positioning insert when the fuel assembly (2) is lowered into or removed from the storage system(s) (1). Wherein, the upper and lower inclined surfaces (16, 17) are inclined relative to the contact surface (15) and extend radially away from the axis of the positioning insert. Furthermore, the insert comprises an outer ribbed portion (19) that radially abuts the outer surface (18) of the inner portion (12) and comprises a plurality of ribs (20) spaced apart circumferentially. Wherein, the outer edges (22) of the ribs form an outer circle (23) of the cylindrical portion (11) for installing the cylindrical portion (11) into the opening (6) of the plate (4, 5) of the storage system (1). Furthermore, the insert includes a flange portion (27) with an annular flange (28), wherein the outer diameter of the flange (28) is greater than the diameter of the outer circle (23) of the cylindrical portion (11). Wherein, in its operational orientation, the flange (28) has a lower surface (29) for contacting the plate (4, 5) of the storage system (1) circumferentially of the opening (6) in the plate (4, 5).