CLAIMS

1. A stud ~~for fastening an attachment element to an underlying surface, having~~ comprising:

a shank that defines a fastening direction, ~~having~~

a sealing element for sealing off a contact zone between the shank and ~~the~~ an underlying surface, and ~~having~~

a force transmission element for transmitting compressive forces from ~~the~~ an attachment element to the underlying surface,

wherein the force transmission element is a single element having ~~has~~ a bearing surface for the attachment element to bear on the force transmission element and a supporting surface for supporting the force transmission element on the underlying surface, and

wherein the stud fastens the attachment element to the underlying surface.

2. The stud as claimed in claim 1, wherein a distance between the bearing surface and the supporting surface in the fastening direction is the same as or greater than a length of the sealing element in the fastening direction.

3. The stud as claimed in claim 1, wherein the force transmission element has a contact pressure surface for the sealing element to press against the underlying surface.

4. The stud as claimed in claim 3, wherein a distance between the contact pressure surface and the supporting surface in the fastening direction is less than a length of the sealing element in the fastening direction.

5. The stud as claimed in claim 4, wherein a ratio of the distance between the contact pressure surface and the supporting surface to the length of the sealing element is between 50% and 90%.

6. The stud as claimed in either of claims 4 and 5, wherein a cross-sectional area of the sealing element perpendicularly to the fastening direction decreases in the fastening direction.

7. The stud as claimed in one of the preceding claims, wherein the stud is a welding stud, a setting stud or a bolt.

8. The stud as claimed in one of the preceding claims, wherein the sealing element is configured in an annular manner, and wherein the sealing element bears internally against the shank and/or bears externally against the force transmission element.

9. The stud as claimed in one of the preceding claims, wherein the force transmission element is configured in an annular manner.

10. The stud as claimed in one of the preceding claims, wherein the sealing element and/or the force transmission element is circular.

11. The stud as claimed in one of the preceding claims, wherein the stud has a thread for tightly screwing the attachment element on the stud.

12. A fastening arrangement having an underlying surface, a stud, and an attachment element, wherein the stud is configured as claimed in one of the preceding claims.

13. The fastening arrangement as claimed in claim 12, wherein the force transmission element is clamped in place between the attachment element and the underlying surface.