Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: List of coordinates of collection points of *E. horridus* in the North and Baltic

Sea between May and November 2022.

File name: Supplementary Data 2

Description: Dataset of the measured attachment forces, masses, safety factors and

experimental settings.

File name: Supplementary Data 3

Description: Table with all publications and data used for the creation of Figure 5 based on

literature for interlocking in insects.

File name: Supplementary Data 4

Description: R scripts used for statistical tests and graphs.

File name: Supplementary Data 5

Description: Table of parameters for the estimation of the drag force a single seal louse, E.

horridus, is exposed on the surface of a swimming seal.

File name: Supplementary Video 1

Description: Exemplary video of a force measurement showing the detachment of *E*.

horridus from seal fur.

File name: Supplementary Video 2

Description: Exemplary video showing the movement of *E. horridus* on seal fur and the

clamping of claws on hairs.