Creating a Square Tool

Preparations

- Open a new GeoGebra classic
- Hide the algebra window, input field, and coordinate axes
- Change the labeling setting to All new objects

Step by step

1		Segment *a* with endpoints *AB*
2		Perpendicular line *b* to segment *AB* through point *B*
3		Circle c with center *B* through point *A*
4		Intersect circle *c* and perpendicular line *b* to get intersection point *C*
5		Parallel line *d* to perpendicular line *b* through point *A*
6		Parallel line *e* to segment *a* through point *C*
7		Intersect lines *d* and *e* to get intersection point *D*
8		Square *ABCD*
9		Hide auxiliary objects (lines and circle).
10		Hide labels of all objects.
11		Set the square's color to black and set the filling to 0%.
12		Create your square tool (menu *Tools – Create new tool…*). Output objects: square, sides of the square, points *C* and *D* Input objects: points *A* and *B* Name: Square Toolbar help: Click on two points
13		Save your square tool as file *Square_Tool.ggt* Hint: Menu *Tools – Manage tools… – Save as…*

adapted from:
https://www3.risc.jku.at/conferences/cadgme2009/Judith_Hohenwarter/presentation_files/GeoGebra_WS_7.pdf