

Workplace for Ben-stove on a shelf

Shelf 33 cm high, with two bases 50 cm x 50 cm

Details about Ben-stoves (Open Source Appropriate Technology) see:

<http://solarcooking.wikia.com/Ben>

The Ben Stove can be placed on a prefabricated shelf. This allows the Ben-Stove to be fueled comfortably, and the pot is easy to operate. The angular profiles for the bolted shelf and the shelf bases are available with different lengths on the market. The shelf height of 33 cm is convenient for operation and avoids waste when profile lengths of 1 m or 2 m are divided. A similar frame can be screwed or welded from angle steel.

The picture on the left also shows two thermos flasks and a thermos-basket for cooking with retained heat (thermos technology). In the case of a transition from fuel consumption of 100 kg (100%) with a 3-stone fire with 10% efficiency to the Ben stove with 40% efficiency and with an additional saving of 45% by the thermos technology, the consumption is reduced to 14 kg ($= 1/7$), corresponding to a saving of 86%. Further savings are possible by solar cookers, which are also suitable for additional applications (baking, preserving etc.). The low residual fuel still required can be obtained from "short rotation plantations" with annual harvest (e.g., pigeon peas).

Thus no tree has to be felled for firewood or charcoal.



Fig. 1. Workplace for firewood stove Ben 2 or Ben 3



Fig. 2. Bolted shelf for firewood stove Ben 2 or Ben 3. Dimensions of the shelf: 50 cm x 50 cm, height 33 cm. The shelf is produced from prefabricated components of Vario System, Schulte