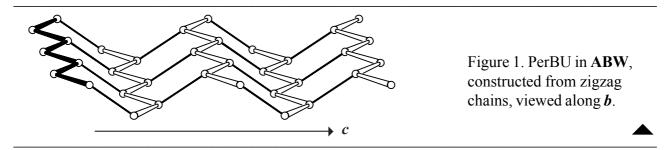


1. Periodic Building Unit – 2. Connection mode – 3. Projections of the unit cell content 4. Channels and/or cages – 5. Supplementary information

1. Periodic Building Unit:

ABW can be built using the zigzag chain (bold in Figure 1) running parallel to b. The repeat distance along the zigzag chain is about 5.2 Å. The repeat unit consists of 2 T atoms. The two-dimensional Periodic Building Unit (PerBU) is obtained when zigzag chains are connected along c into a layer of (fused) 6-ring chairs as shown in Figure 1. [Compare this PerBU with the PerBU in JBW]



2. Connection mode:

Neighboring PerBUs, related by a shift of $\frac{1}{2}(a+b+c)$, are connected along a through 4-rings.

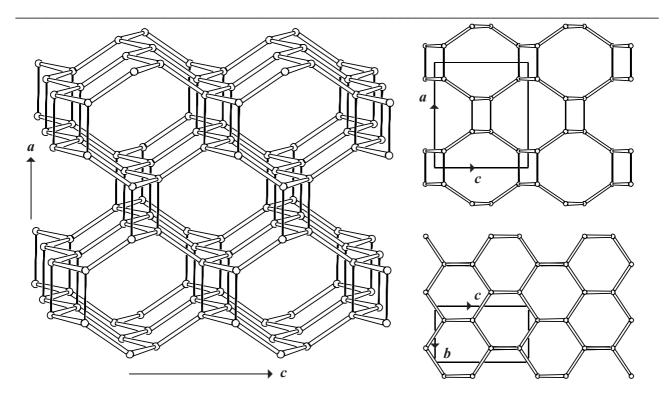


Figure 2. Connection mode in **ABW** viewed along **b** (left) and parallel projections of the unit cell content along **b** (top right) and along **a** (bottom right). **ABW** can as well be built from 4- or 8-rings, as can be seen from the Figure.

3. Projections of the unit cell content: See Figure 2.

4. Channels and/or cages:

The 8-ring channel, parallel to **b**, is depicted in Figure 3. The **pore descriptor** is added. The channel is topologically equivalent to the channel in **JBW**.

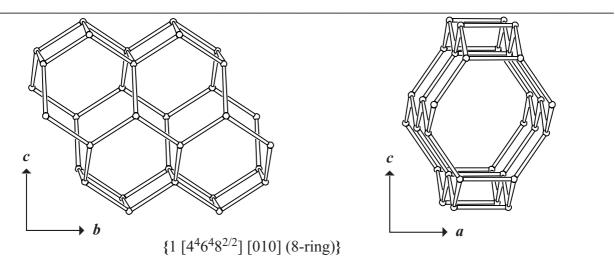


Figure 3. Channel (with side-pockets) in **ABW** viewed along *a* (left) and along the channel axis *b* (right).

5. Supplementary information:

Other framework types containing zigzag chains

In several framework types at least one of the unit cell dimensions is about n*5.2 Å (where n=1, 2, 3, etc.). In many cases this indicates the presence of zigzag chains.

In the **INTRO** pages links are given to detailed descriptions of these framework types (choose:

Zigzag chains). There is also a link to a summary of the Periodic Building Units used in the building schemes of these framework types (choose: **Appendix**; **Figure 1**).