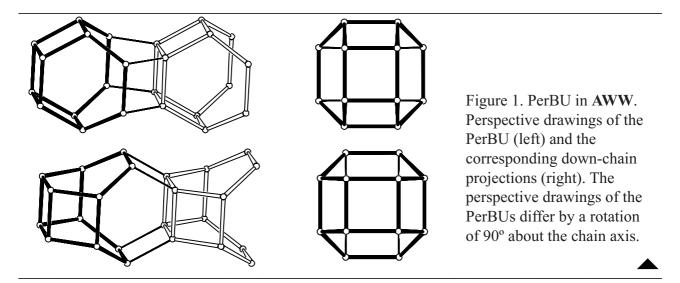
Building scheme for AWW



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

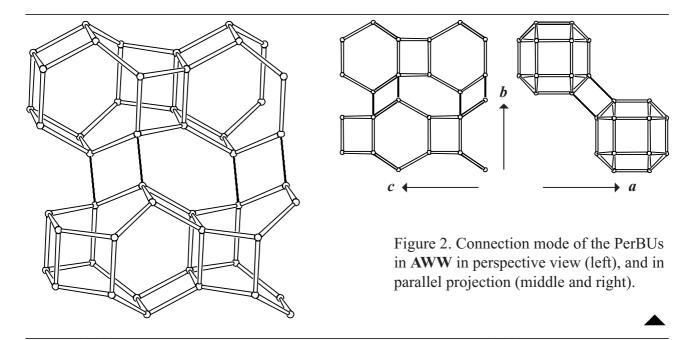
1. Periodic Building Unit:

The one-dimensional PerBU in **AWW** is equal to a chain parallel to c and is depicted in Figure 1. The repeat unit of the PerBU consists of a 4-fold (1,2,3,4)-connected double 6-ring (D6R) and contains 12T atoms (bold in Fig.1). The D6Rs in the chain are related by pure translations along c. [The connection in the D6R in **AWW** is different from the connection in the D6R in **AFI**, **ATT**, **ATV**, **AWO** and **UEI**]



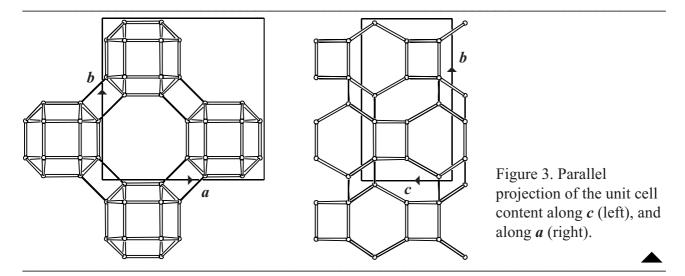
2. Connection mode:

Neighboring PerBUs, related by a rotation of 90° about the chain axis c, are connected along [110] through fused 4- and 6-rings as shown in Figure 2.



3. Projections of the unit cell content:

The unit cell is obtained by connecting four PerBUs around a 4-fold rotation axis parallel to c.



4. Channels and/or cages:

The PerBUs form *aww* cavities shown in Figure 4 together with the **pore descriptor**. Cavities are linked through common 8-rings into columns that form (non-interconnected) channels parallel to *c*. The fusion of the columns through (common) 4- and 6-rings is illustrated in Figure 5.

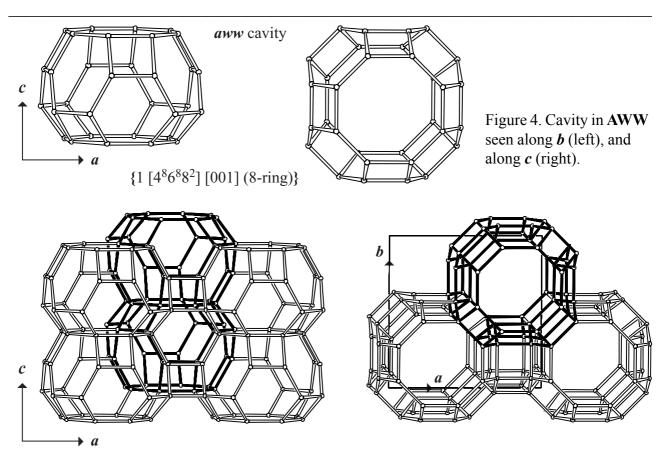


Figure 5. Fused columns of fused cavities viewed along b (left), and along c (right) illustrating the straight 8-ring channels formed along c. [The Figure also shows (not easily) that **AWW** can as well be built using (six) 4-rings]

5. Supplementary information:

Other framework types containing (modified) double 6-rings (D6Rs)

Several other framework types can be built using (modified) D6Rs.

In the **INTRO** pages links are given to descriptions of other framework types containing (modified) D6Rs (choose: **Double 6-rings**). There is also a link provided to a summary of the Periodic Building Units used in the building schemes of these framework types (choose: **Appendix**; **Figure 7**).