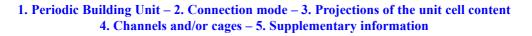
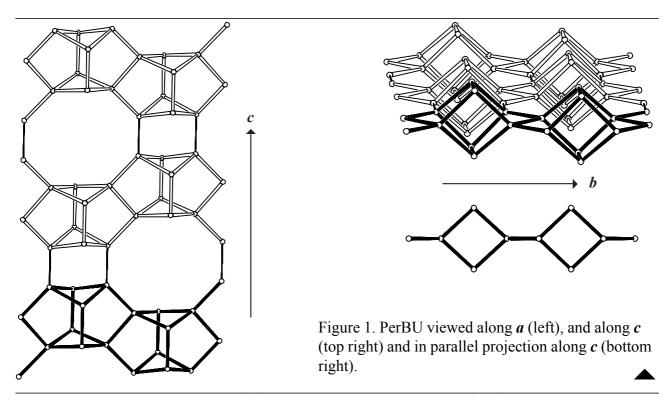
Building scheme for TER



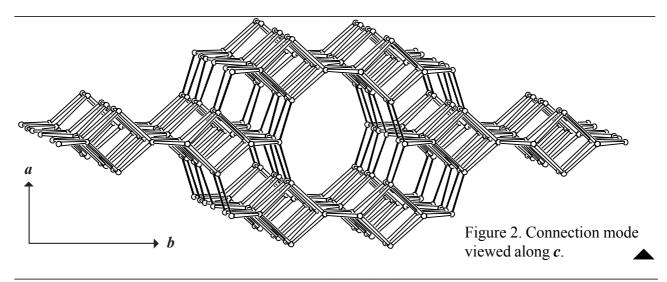
1. Periodic Building Unit:

The one-dimensional Periodic Building Unit (PerBU) is composed of units of 20 T atoms: two double 4-rings and four additional T atoms (or four 4-1 units; bold in Figure 1; compare **BRE**). The PerBU equals the strip, extending infinitely along c, shown in Figure 1. Neighboring T20-units in the strip, related by a rotation of 180° about c, are connected along c by (fused) 6-rings and 10-rings.

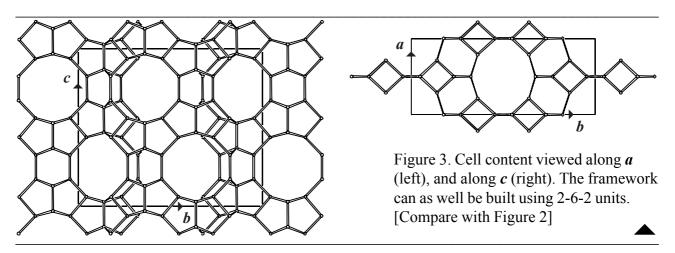


2. Connection mode:

Neighboring PerBUs, related by a shift of $\frac{1}{2}(a+b)$, are connected through 6-rings as shown in Figure 2. 10-Ring channels parallel to *a* are formed.

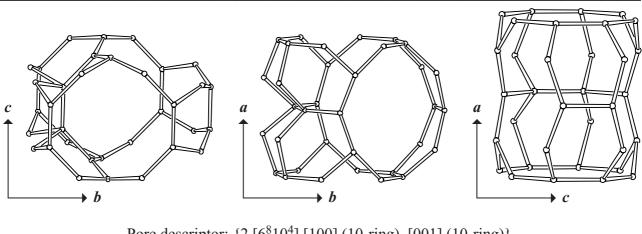


3. Projections of the unit cell content: See Figure 3.



4. Channels and/or cages:

There are intersecting 10-ring channels parallel to *a* and *c*. The channel intersection is shown in Figure 4(a) together with the pore descriptor. Channel intersections are linked into 10-ring channels parallel to *c* and to *a* as illustrated in Figure 4(b).



Pore descriptor: {2 [6⁸10⁴] [100] (10-ring), [001] (10-ring)}

(a)

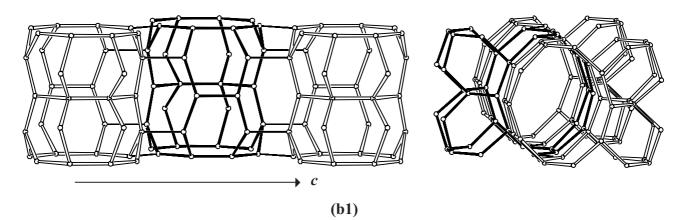
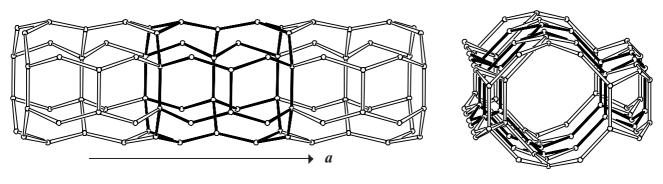


Figure 4. (a): Channel intersection, with pore descriptor, viewed (from left to right) along *a*, *c* and *b*; (b1): Linked channel intersections along *c* viewed along *b* (left), and viewed along the 10-ring channel axis parallel to *c* (right); [Figure 4 is continued on next page]



⁽b2)

Figure 4 [Cont'd]. (b2): Fused channel intersections along *a* viewed along *b* (left), and along the 10-ring channel axis parallel to *a* (right).

5. Supplementary information:

Other framework types containing (modified) double 4-rings (D4Rs)

Double 4-rings (D4Rs) can be connected in several other ways. In some cases the 4-rings of the D4Rs are not 4-fold connected and/or additional T atoms are needed to build the framework. In the **INTRO** pages links are given to a detailed description of a sub-set of framework types that contain (modified) D4Rs (choose **Double 4-rings**). There is also a link provided to a summary of the PerBUs used in the building schemes of these framework types (choose: **Appendix**; **Figure 5**).