1. Periodic Building Unit:

**IFR** can be built using units composed of 16 T atoms: a 4-fold (1,2,4,5)-connected double 6-ring with "handles" (or two 6-2 units; bold in Figure 1 (left)). The one-dimensional Periodic Building Unit (PerBU) is obtained when T16-units, related along \( c \) by pure translations, are connected through 4-rings into a chain along \( c \) as shown in Figure 1 (left). Alternatively, the PerBU can be obtained by connecting T16-units consisting of five (fused) 4-rings with four additional bridging T atoms (one unit in bold in Figure 1 (right)). The first type of T16-units is used in the present description.

2. Connection mode:

Neighboring PerBUs, related by a translation of \( \frac{1}{2}(a \pm b) \), are connected along \{110\} by 4-rings.
3. Projections of the unit cell content: See Figure 3.

4. Channels and/or cages:

12-Ring channels are parallel to $c$. The channels can be obtained by connecting cavities through common 12-rings. The cavity is depicted in Figure 4 together with its pore descriptor. The fusion of cavities is illustrated in Figure 5. [Compare with Figure 3 and Figure 4 in description of LAU]
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).