1. Periodic Building Unit:

**IWW** can be built using chains parallel to \( c \) constructed from T28-units (one in bold in Figure 1). The T28-units are related by pure translations along \( c \). The chain resembles a "double" chain in **CON** with one 4-ring in a different orientation. The two-dimensional Periodic Building Unit (PerBU) is equal to the \( bc \) layer depicted in Figure 2. The PerBU is built from parallel chains related by pure translations along \( b \). [Compare this chain and PerBU with those in the **Beta-like framework types**]

![Figure 1. Chain of T28-units (one T28-unit in bold) viewed perpendicular to the chain axis (left) and along the chain axis (right).](image1)

**Figure 1.** Chain of T28-units (one T28-unit in bold) viewed perpendiculer to the chain axis (left) and along the chain axis (right).

![Figure 2. PerBU in IWW viewed along a (left) and along c (right).](image2)

**Figure 2.** PerBU in **IWW** viewed along \( a \) (left) and along \( c \) (right). The connecting T-T bonds in the fused 4-6-6 ring sequences formed are drawn as single lines.

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2. Connection mode:

Neighboring PerBUs are alternately related by a rotation of 180° about $c$ (and a shift of $1/2b$) and by a rotation of 180° about $b$ (and a shift of $1/2b$) as illustrated in Figure 3. 8- and 12-rings are formed.

![Figure 3. Connection mode viewed along $c$. Only one T28-unit along $c$ has been drawn for clarity.](image)

3. Projections of the unit cell content: See Figure 4.

![Figure 4. Unit cell content in IWW viewed along [120] (left), along $b$ (top right) and along $c$ (bottom right).](image)
4. Channels and/or cages:

Interconnected 8- and 12-ring channels are parallel to \(c\) and (sinusoidal) 10-ring channels are parallel to \(b\) and <120>. The two types of channel intersections (or cavities) are depicted in Figure 5. The pore descriptor is added. The linkage of cavities along \(a\), \(b\) and \(c\) is illustrated in Figure 6.

Figure 5. The two types of cavities viewed along (from top to bottom) \(c\), \(b\) and [1-20]. [Figure 6 is on next page]
Figure 6. Fusion of channel intersections viewed along c (top left), along b (top right) and along [1-20] (bottom right) illustrating the (interconnected) different channel systems formed.

5. Supplementary information:

Beta-like framework types
Beta-like framework types can be constructed using chains that resemble the chain in the BEA framework type.
In the INTRO-pages links are given to a description of the framework types that contain these chains (choose: Beta-family). There is also a link provided to a summary of the chains and PerBUs used in the building schemes of the framework types (choose: Appendix; Figure 9).