

Modular Shelving System

A.1. Base, Upper and Freestanding Units

The base units, upper units and freestanding units of the **SYNTHEKA** range consist of a **metal frame and wooden components**, depending on the configuration.

A.1.1. The range includes **base units**, on which the corresponding **upper units** can be installed.

A.1.2. Each **base + upper unit configuration** can be connected to any other configuration through the **movable connecting shelves**, allowing **multiple configurations to be interconnected**.

A.1.3. **Freestanding multifunctional units** are also available for independent use.

A.2. Frame

A.2.1. The metal frame of each unit consists of **vertical supports (side members)** and **horizontal crossbars**, on which the melamine shelves are supported.

A.2.2. The vertical supports (side members) are manufactured from **25 × 25 mm square-section steel profiles with a thickness of 1.4 mm**, grade **DCP**. Horizontal crossbars made of **30 × 20 mm rectangular-section steel profiles with a thickness of 1.4 mm**, grade **DCP**, are fitted between the vertical supports. The horizontal crossbars are connected to the vertical supports by means of a **click-in connection system**, using specially formed steel profiles with **specially designed laser-cut sections**.

A.2.3. The horizontal crossbars supporting the melamine shelves are manufactured from **18 × 18 mm square-section steel profiles with a thickness of 1.4 mm**, grade **DCP**. The shelf crossbars are installed by means of a **click-in connection system**, through specially formed slots on the vertical crossbars. They feature special openings into which **cast hooks** are fitted, allowing the melamine shelves to be installed easily with a **concealed support system**.

A.2.4. The movable connecting shelves are manufactured from **18 × 18 mm square-section steel profiles with a thickness of 1.4 mm**, grade **DCP**. They can be easily installed at

any desired position by means of **specially designed cast nodes**. The horizontal crossbars of the movable shelves feature special openings for the installation of cast hooks, providing easy installation and **concealed support of the melamine shelves**.

A.2.5. The connection between the **base units and upper units** is achieved through **plastic connecting nodes**.

A.2.6. All steel components are finished with **electrostatic powder coating**, providing a durable and uniform surface finish.

A.2.7. The base units and freestanding units are equipped with **levelling adjusters**, providing a **0–20 mm adjustment range**, allowing accurate levelling of the units on the floor.

A.3. Melamine Components

A.3.1. The cabinet carcasses are manufactured from **three-layer E0.5-grade particleboard**, with **double-sided melamine coating**. All panels have a thickness of **18 mm** and the individual carcass components are finished with **edge banding**. The cabinet back panels are equipped with suitable **plastic connecting components**, allowing them to be clipped onto the vertical metal supports.

A.3.2. The cabinet doors are manufactured from **three-layer E0.5-grade particleboard**, with double-sided melamine coating and an overall thickness of **18 mm**. They are finished with **1 mm-thick ABS edge banding** and are positioned internally within the cabinet. The doors provide a maximum opening angle of **100°**.

A.3.3. The independent shelves are manufactured from **three-layer E0.5-grade particleboard**, with double-sided melamine coating and an overall thickness of **18 mm**, and are finished with **1 mm-thick ABS edge banding**. The shelves feature suitable recesses for **click-in connection and support on the metal frame**.

A.4. General Information – Assembly

A.4.1. Depending on the configuration, **melamine boxes, melamine boxes with doors and melamine panels** can be easily installed, even in existing configurations, through the **plastic clip-in connectors** provided on the respective melamine components.

A.4.2. An **acoustic back panel** is also available in a variety of colour options. It is manufactured from **16 mm-thick polyester acoustic material**. The acoustic back panel can be easily installed even in existing configurations through the **plastic clip-in connectors** provided.



A.4.3. The overall construction of the **SYNTHEKA** units, as well as the installation of the individual components, such as shelves, melamine boxes, etc., follows the principle of **easy, tool-free assembly**, without the use of fastening systems such as bolts.

Note: The design and connection system of the units are **protected by a patent held by DROMEAS**.

Product Certifications:

Blauer Engel – DE-UZ 38 – Low-Emission Furniture and Slatted Frames made of Wood and Wood-Based Materials

