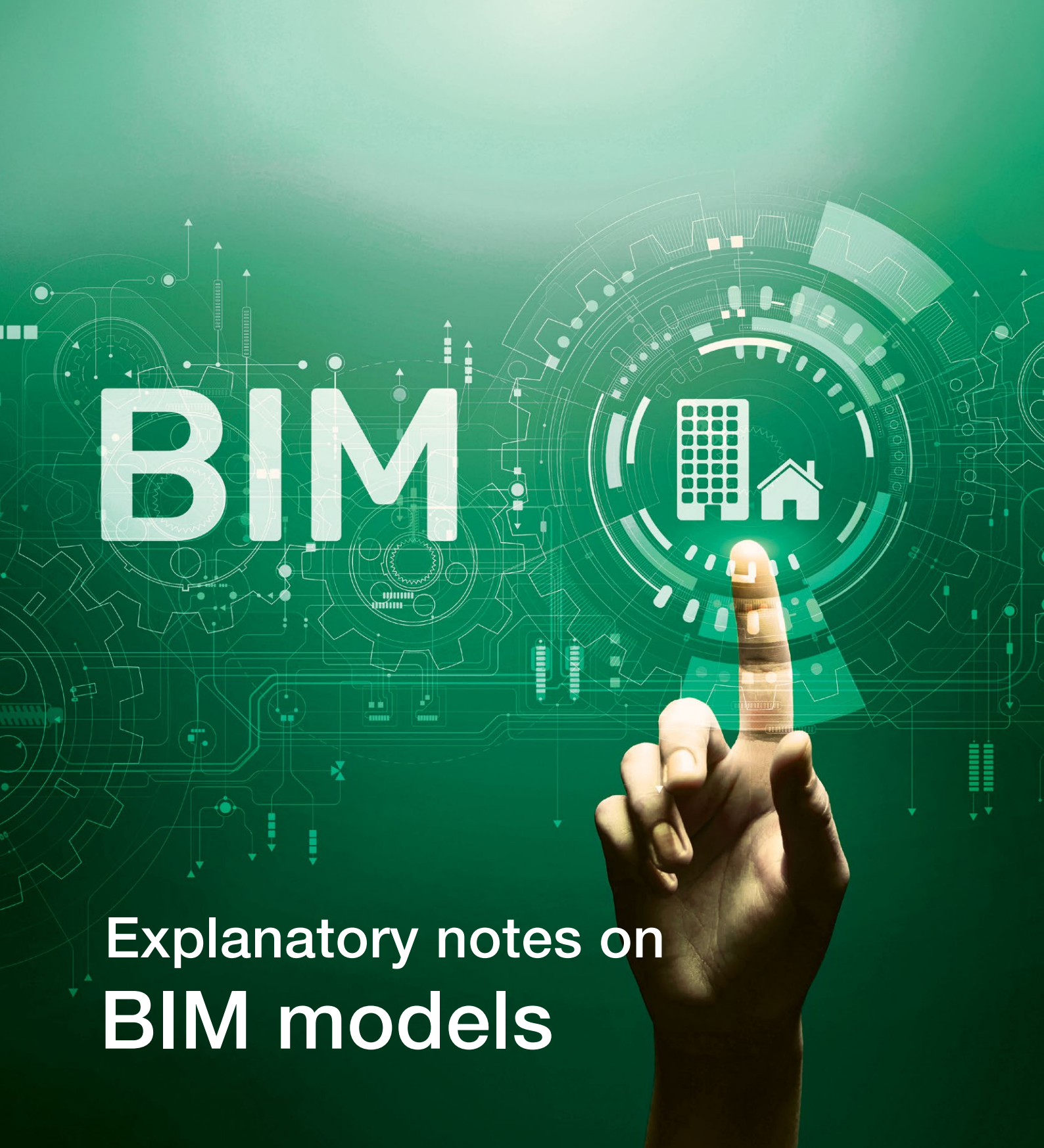


The background of the top half of the image is a dark green gradient. It is overlaid with a complex network of white and light green lines, resembling circuit board traces or data paths. Several circular, gear-like patterns are scattered across the background. On the right side, there is a large, semi-transparent circular interface element. Inside this circle, there are icons of a multi-story building and a house. A human hand is visible in the lower right, with the index finger pointing upwards towards the building icon. The word 'BIM' is written in large, white, sans-serif capital letters on the left side of the image.

BIM

Explanatory notes on BIM models



MASTERTEC

SPECIAL ARTICLES FOR REINFORCED CONCRETE CONSTRUCTION

What is BIM? Why BIM?



The abbreviation **BIM** stands for ‘**B**uilding **I**nformation **M**odelling’ and describes a working method for the networked planning, construction and management of buildings and other structures using a digital model. With BIM, all relevant information about a structure is collected and managed in a single digital model. This contains not only the geometric data of the structure, but also information such as materials, costs, energy consumption and much more.

BIM brings together all stakeholders, increasing transparency, making processes more efficient and improving cost control.

Even after the building has been completed, the digital data remains valuable – for ongoing operations, future renovations or even demolition, for example.

Here you will find the BIM models from MASTERTEC

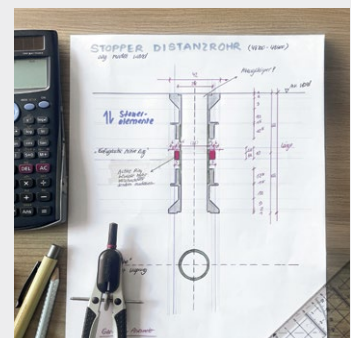
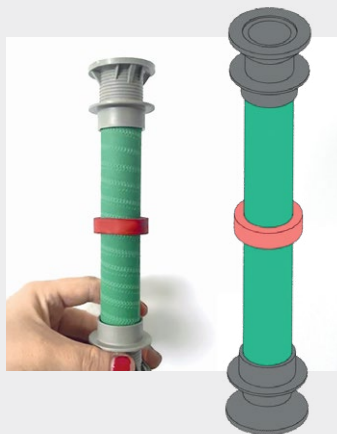


You can download our BIM models directly from the respective products on our website **www.mastertec.eu**. We are also represented on **BIMobject.com**, the world's leading platform for BIM objects. There, we have created an extensive catalogue of models from our product range so that you can easily integrate all relevant data into your planning software.

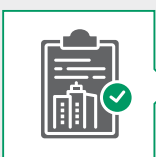
Digital twins



Our BIM models represent MASTERTEC products as digital twins. Each of these models is not only a 3D representation, but also a database that manages and provides information such as material properties, dimensions, weight and installation instructions. This data is available to planners, architects and construction companies directly in the model, enabling precise planning, easy integration into existing systems and greater efficiency throughout the entire project life cycle.



Plan and order more efficiently with component lists



After installing our BIM models, the customer can generate a component list. The component list counts which and how many of our items are included in the project as BIM models. The component list contains the relevant information for each item. For example, the item numbers are listed and the respective quantities are automatically summarized. This component list can be sent directly to our sales department. This simplifies and speeds up the quotation process for the customer.

Revit as software



Our BIM models are created in Revit and provided in the native, software-specific file format (.rfa). We make this format available to our customers directly. Therefore, working with Revit is necessary to use our models.

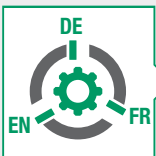
Why are there two files per BIM model?



Our BIM models consist of two separate files: a Revit (.rfa) file and an accompanying text file (.txt). Both files must be saved in the same local folder.

The text file lists all existing types of an item. When uploading to the project, the customers can specifically select only the types they need for the current project. This keeps the project files as small as possible. For example, our FASO has 180 different types depending on diameter and pipe length. Without the text file, all existing types would be loaded into the project, unnecessarily increasing the file size of the project.

Languages



Our BIM models are modelled in German. All parameters and important terms also have English and French translations. If you move the mouse pointer over a parameter, the corresponding translations are displayed.



Alphanumeric information



In addition to the geometric information, our BIM models contain the following alphanumeric information:

- Article name
- Article number
- Material
- Link to our website / link to the tender text
- Pressure water tightness (if applicable)
- Weight
- GTIN
- Customs tariff number

MASTERTEC BIM models are 'intelligent' and respond flexibly to the respective installation situation. For items that we offer in intermediate lengths, our BIM models are equally flexible. For example, the length of a FASO wall sleeve automatically adapts to the thickness of the wall in which it is installed. In contrast, for items that we only supply in fixed lengths, the length is NOT adjusted to the wall thickness – unlike FASO wall sleeves. All our BIM models contain the information required to represent reality as accurately as possible.

Accessories

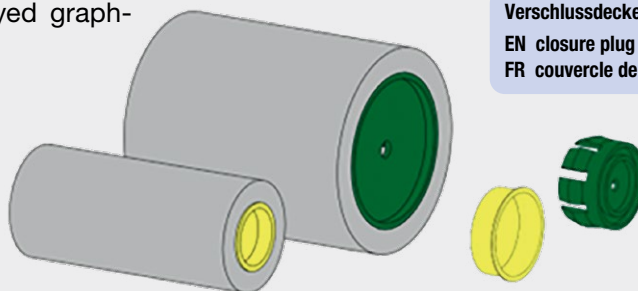


If accessories are available for an item, these can be added as an option in the BIM model of the item.

Example: For our FASO wall sleeves, closure plugs or FIX formwork aids are available for some diameters. These can be optionally selected in the BIM model via the ID data and then displayed graphically.

ID-Daten	
FIX Schalungshilfe außen gewünscht	☐
FIX Schalungshilfe innen gewünscht	☐
FIX Schalungshilfe lieferbar	☐
Verschlussdeckel außen gewünscht	☒
Verschlussdeckel innen gewünscht	☒
Verschlussdeckel lieferbar	☐

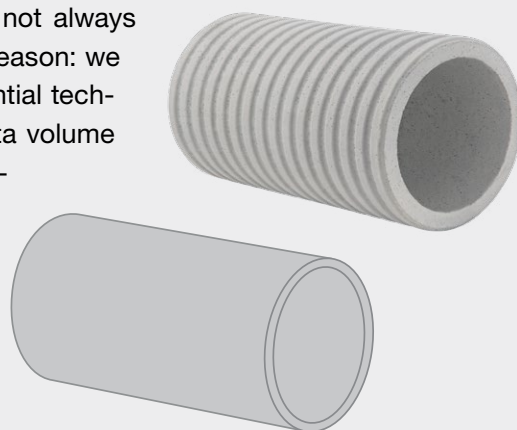
Verschlussdeckel innen gewünscht
EN closure plug (inside) requested
FR couvercle de fermeture souhaité (intérieur)



Level of detail



The level of detail in our BIM models does not always correspond to that of the actual items. The reason: we reduce the visual representation to the essential technical characteristics in order to keep the data volume as low as possible. Details that are not relevant to technical planning would unnecessarily increase the file size and impair the performance of the planning software. For optimal application, we therefore deliberately omit certain details.



Contact us



If you have any questions about our BIM models, please contact our planning department:

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