

Foundations **CATALOGUE**

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Formwork

Scaffolding



DIFFERENT USES OF FORMWORKS

The BFL 80 formwork system is a light and universal system designed for the construction of reinforced concrete elements such as:

- Walls and foundation benches
- Foundation beams
- Substrings
- Roof rims
- Tanks
- Beams and reinforced concrete stems

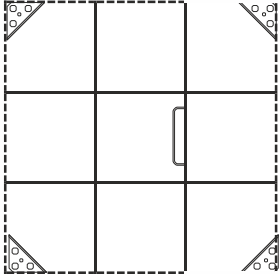
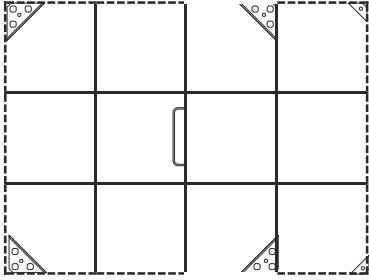
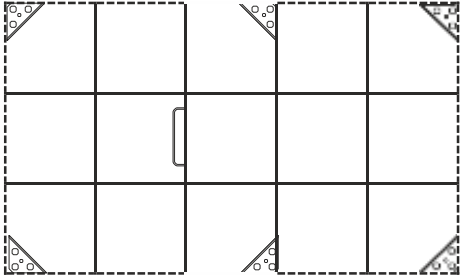
The BFL system is designed for small and medium-sized buildings in residential construction and complex reinforced concrete elements in industrial construction. Thanks to its lightweight design the BFL 80 system is convenient for manual assembly on construction site.

PRODUCT FEATURES

The BFL 80 system is made of a perforated flat bar with a thickness of 5 mm and a width of 8 cm. The extreme profiles have perforated holes spaced every 5 cm. The external frame is reinforced with flat bar ribs. The whole frame is hot-dip galvanized which ensures high resistance to rust. The cover is made of multi-layer waterproof plywood coated on both sides with a resin coating. It guarantees high quality of concrete surface and very long life of formwork surfaces. Permissible concrete pressure on the panels is 40 kN / m².

BASIC AND ADDITIONAL EQUIPMENT

Panels:

height [cm] - 90	description	weight [kg]
	BFL 80 panel 20x90	11,00
	BFL 80 panel 25x90	13,00
	BFL 80 panel 30x90	14,10
	BFL 80 panel 45x90	18,30
	BFL 80 panel 50x90	19,20
	BFL 80 panel 60x90	20,60
	BFL-S 80 panel 70 x 90	27,00
	BFL 80 panel 90x90	28,00
height [cm] - 120	description	weight [kg]
	BFL 80 panel 20x120	15,50
	BFL 80 panel 25x120	16,00
	BFL 80 panel 30x120	17,80
	BFL 80 panel 45x120	24,00
	BFL 80 panel 50x120	25,00
	BFL 80 panel 60x120	27,00
	BFL-S 80 panel 70 x 120	33,00
	BFL 80 panel 90x120	36,00
height [cm] - 150	description	weight [kg]
	BFL 80 panel 20x150	19,00
	BFL 80 panel 25x150	20,00
	BFL 80 panel 30x150	23,00
	BFL 80 panel 45x150	30,40
	BFL 80 panel 50x150	33,00
	BFL 80 panel 60x150	35,00
	BFL-S 80 panel 70x150	42,00
	BFL 80 panel 90x150	45,00

Corners:

height [cm] - 60, 90, 120 i 150	description	weight [kg]
	BFL 80 external corner 0x60	5,00
	BFL 80 external corner 0x90	6,00
	BFL 80 external corner 0x120	8,00
	BFL 80 external corner 0x150	10,00

height [cm] - 60, 90, 120 i 150	description	weight [kg]
	BFL 80 internal corner 15x60	12,00
	BFL 80 internal corner 15x90	16,00
	BFL 80 internal corner 15x120	21,00
	BFL 80 internal corner 15x150	25,00

height [cm] - 90, 120 i 150	description	weight [kg]
	BFL 80 hinged corner 8x90	12,60
	BFL 80 hinged corner 8x120	16,90
	BFL 80 hinged corner 8x150	20,40

Fittings:

description	weight [kg]
	BFL 80 clip 0,60

description	weight [kg]
	BFL 80 bolt with nut and wedge 1,30

Drawing elements:

description	weight [kg]
	Nut ø70, 100 0,80

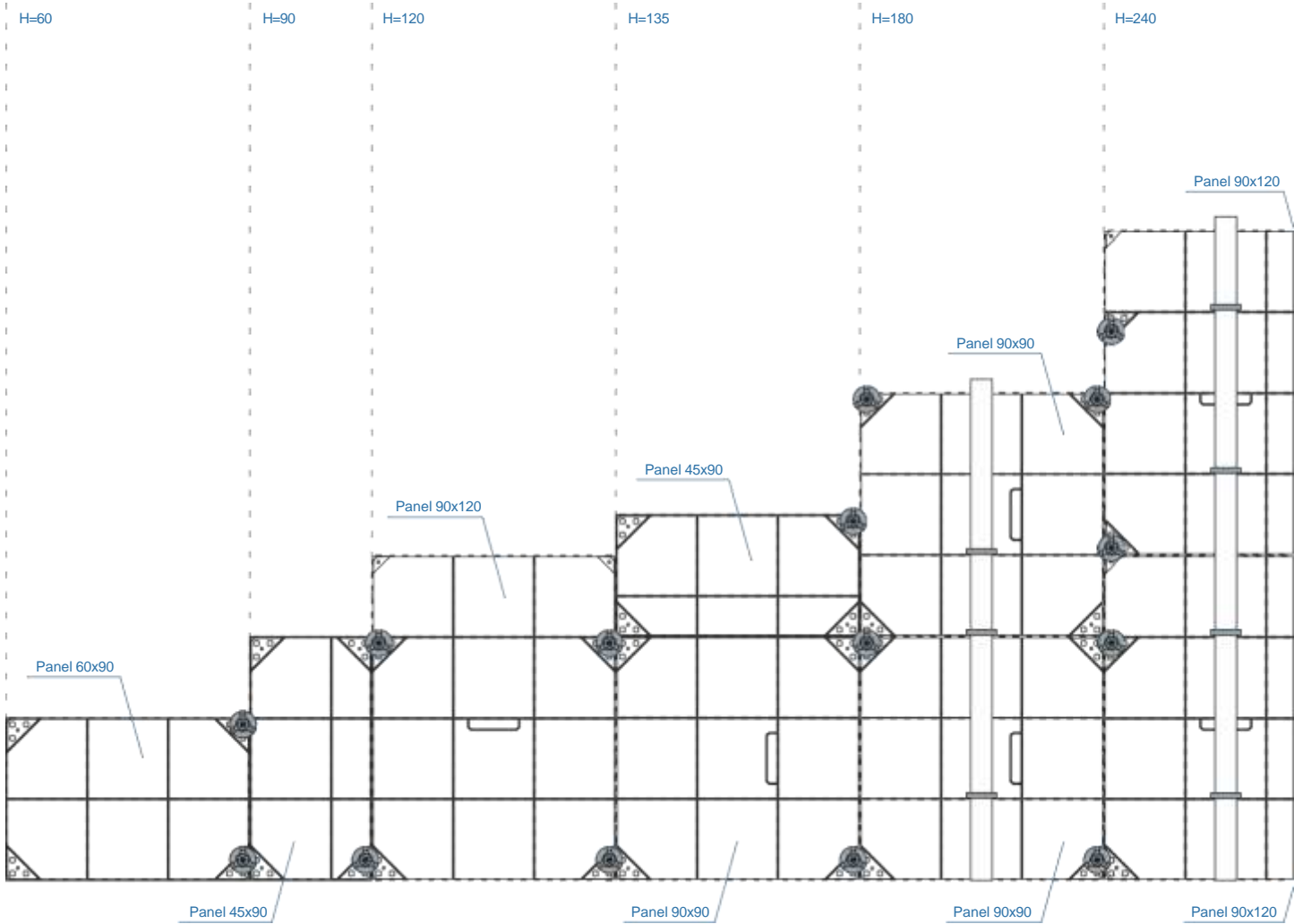
description	weight [kg]
	Combi plate 120x120 1,10

description	weight [kg]
	Tie rod 1,50

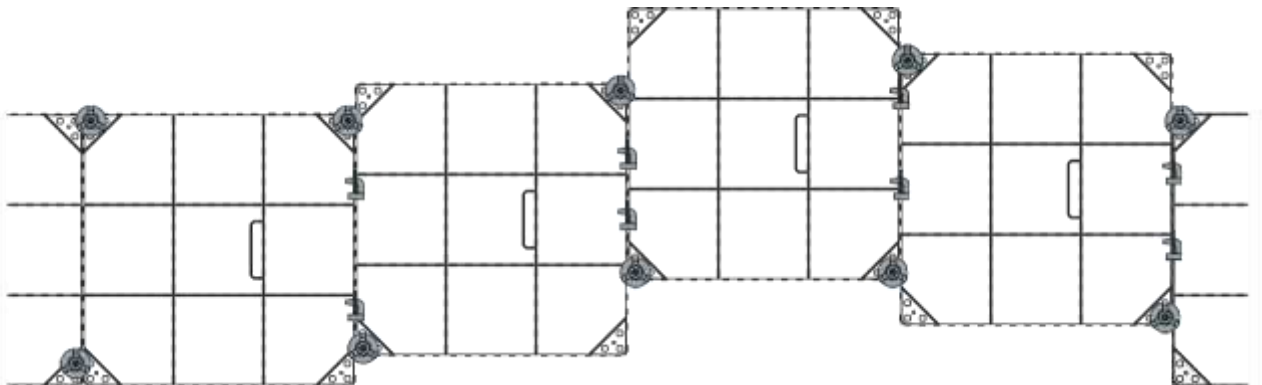
4 WORK PLANNING AND THE PREPARATION OF ASSEMBLY

The panels can be combined with each other in both vertical and horizontal positions. The 120 cm and 150 cm high panels can be combined in order to make basement walls up to 2.70 m high. Formwork higher than 1.80 m should be additionally stiffened with stifting beams or H20 beams. It is also

important to pay attention to the speed of concreting and the consistency of the concrete mix, because the permissible pressure of the concrete mix on the formwork structure is 240kN/m^2 .



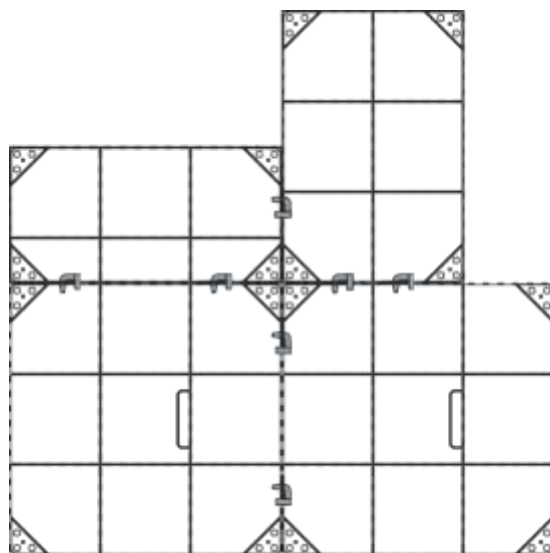
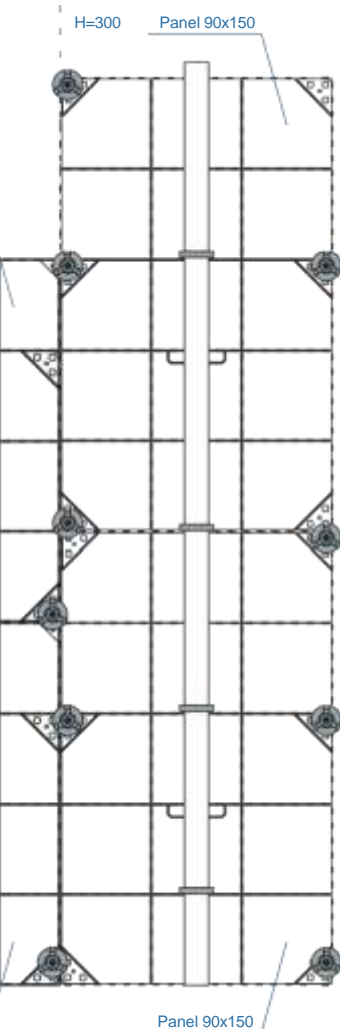
Thanks to the wide range of panel dimensions the formwork can be adapted to the 5 cm module.



ASSEMBLY AND DESASSEMBLY

Connecting BFL 80 panels

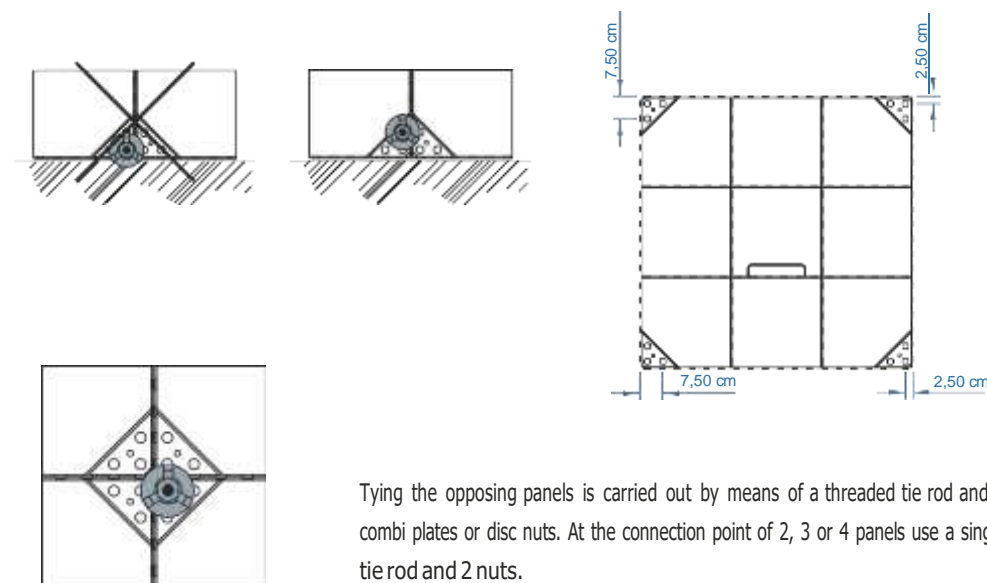
We connect the panels with each other by means of U clips. We mount the U clips in the holes of 2 panels and hit the hammer from the top to obtain a tensile and compression resistant connection. For joining 90 cm and 120 cm panels 2 U clips should be used, for 150 cm panels use 3 U clips per one connection.



The holes in the panels allow the use of U clips every 5cm. It should be remembered to keep the panels tightly together after connecting them with U clips. Mounting the U clips too low in the panel can make the desassembly difficult.

Tying BFL 80 panels

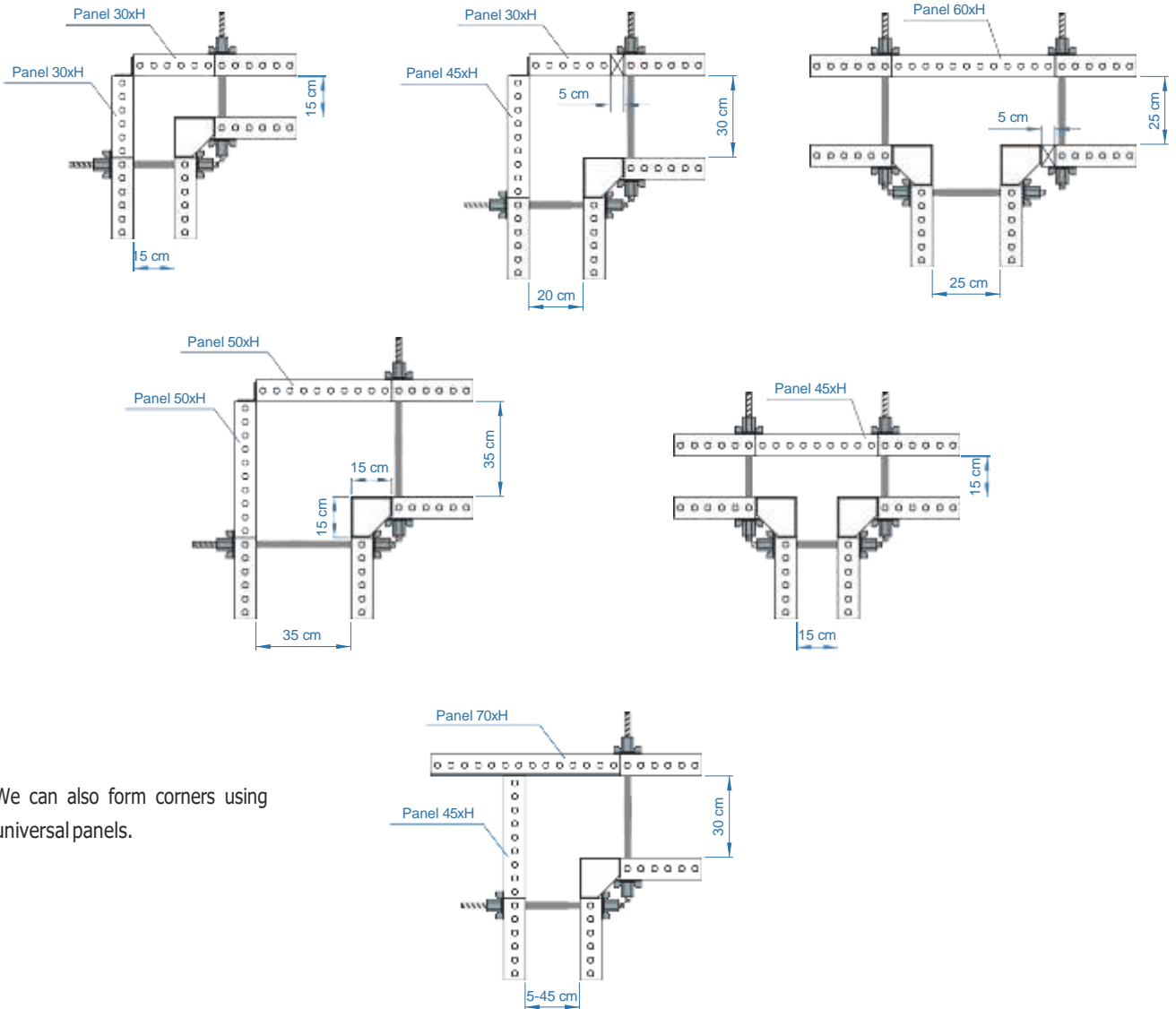
The panels with a height of 90 cm have 4 sets of holes for tie rods, 3 in each corner. Panels with a height 120 cm have 2 sets of holes for tie rods, 3 pieces in the bottom corners and 2 sets at a height of 90 cm from the bottom edge of the panel. 150 cm panels have 4 sets of holes for tie rods, 3 in each corner and 2 sets of holes of 3 pieces at a height of 90 cm from the bottom edge of the panel. The use of a 3 hole set in the panels will avoid the collision between the nut and the ground when the panels are being tied at the bottom edge.



Tying the opposing panels is carried out by means of a threaded tie rod and 2 combi plates or disc nuts. At the connection point of 2, 3 or 4 panels use a single tie rod and 2 nuts.

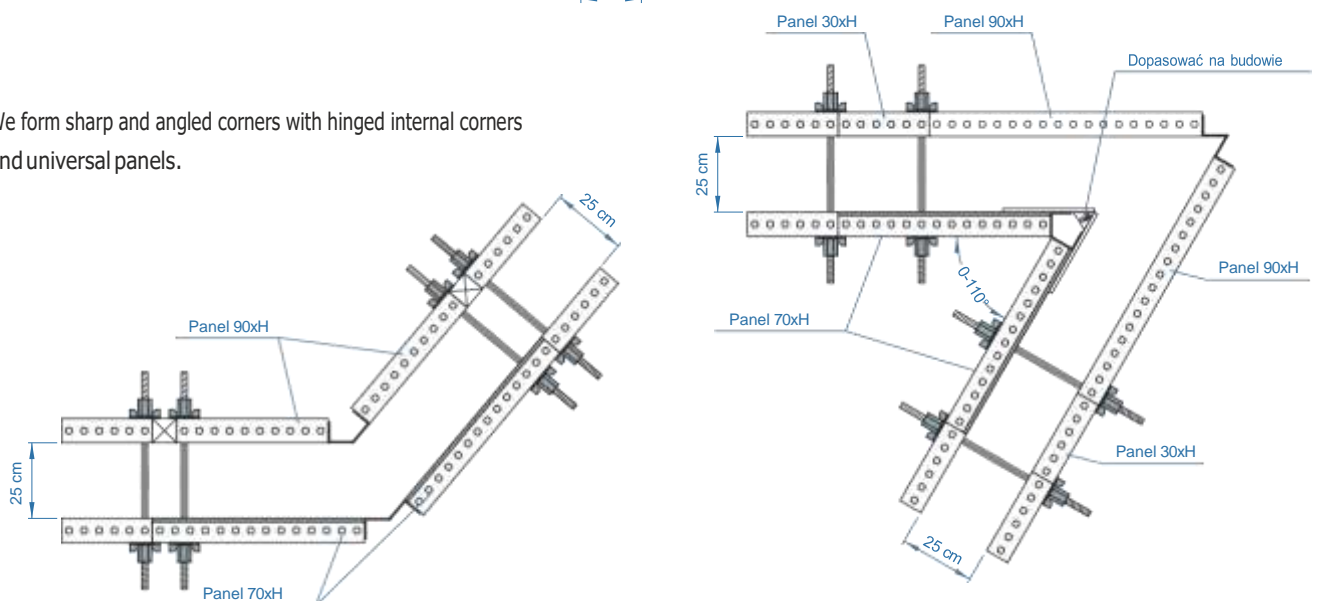
FORMING CORNERS

The corners are formed using internal and external corners. Using the right selection of external panels, you can correctly form corners in walls of varying thickness.



We can also form corners using universal panels.

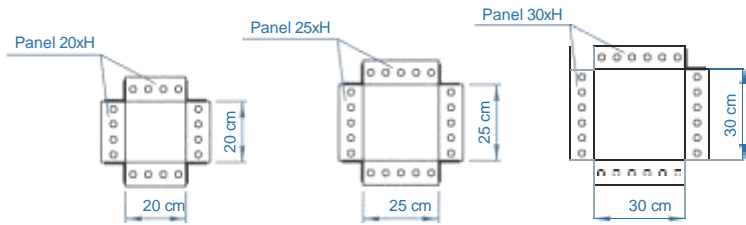
We form sharp and angled corners with hinged internal corners and universal panels.



FORMING POSTS

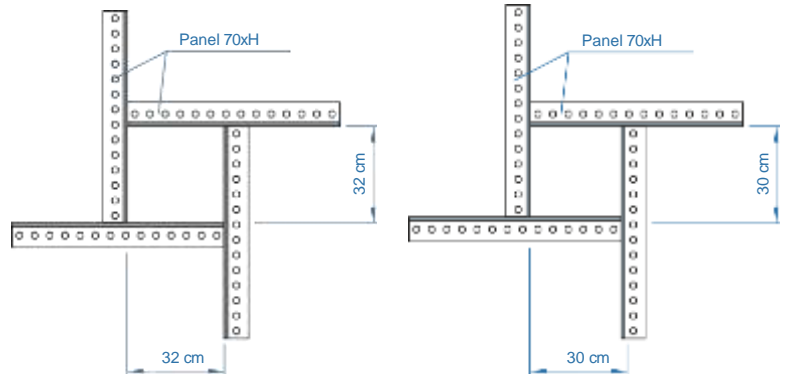
BFL 80 standard panels

Posts with rectangular cross-section and dimensions of 20, 25, 30, 45, 50, 60, 70, 90 can be formed by using standard panels and external corners.



BFL-S 80 universal panels

Posts with rectangular cross-section and side lengths of 15, 20, 25 ... cm in a 5 cm module can be formed using universal panels and the left-hand direction of combining panels. The right-hand direction for combining panels allows you to obtain the following dimensions of posts 17, 22, 27 ... cm in 5 cm module. The panels are joined using corner tighteners and disc nuts.

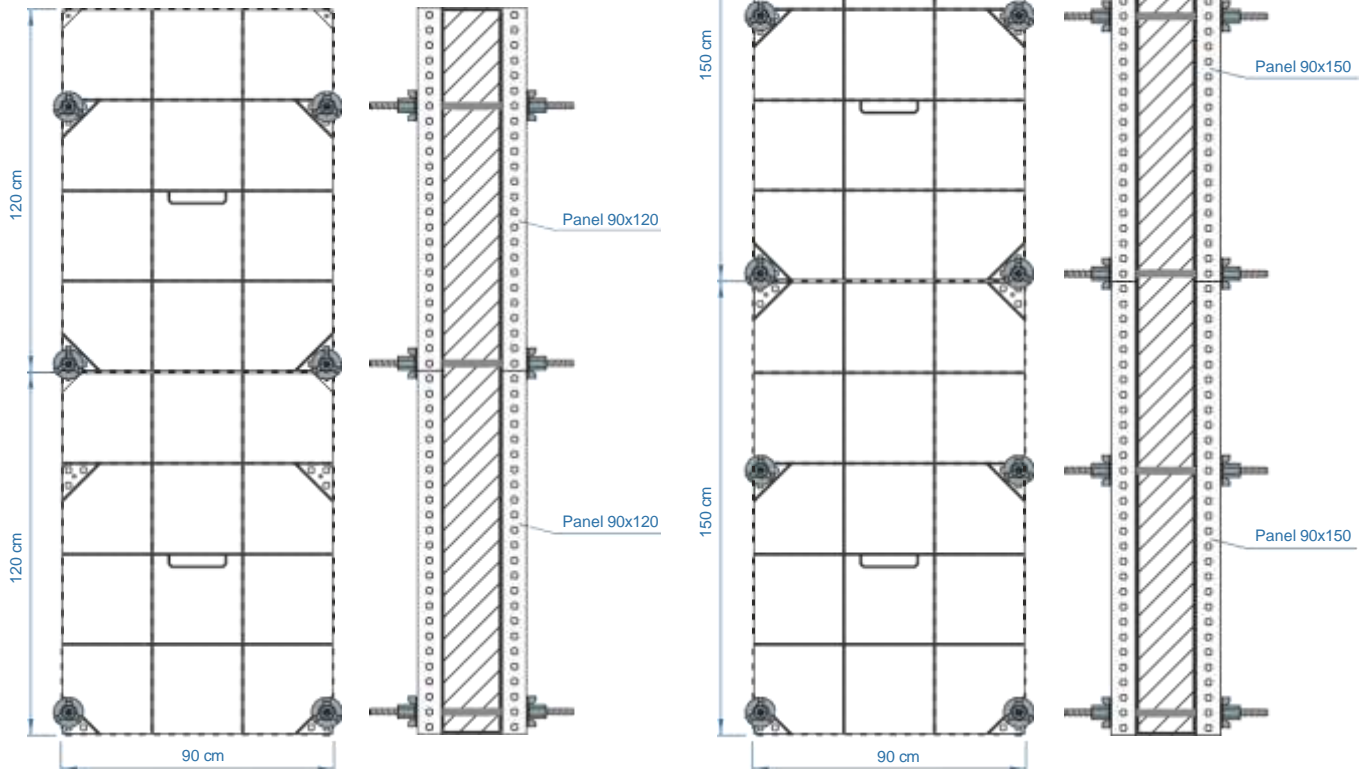


THE USE OF BFL 80 AS A LARGE FORMAT FORMWORK

For the correct stiffening of the BFL 80 formwork stiffening beams should be used, which we mount to the panel using a corner tightener and a disc nut. For stiffening beams with a length of 100 cm 2 tighteners and 2 nuts should be used. For longer beams use tighteners at a distance of no more than 90 cm. The formwork can also be stiffened by using scantlings or H20 beams and straightening buckles.



BFL 80 panels can be used to form small reinforced concrete walls, eg. basement walls and garage walls in single-family housing.



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