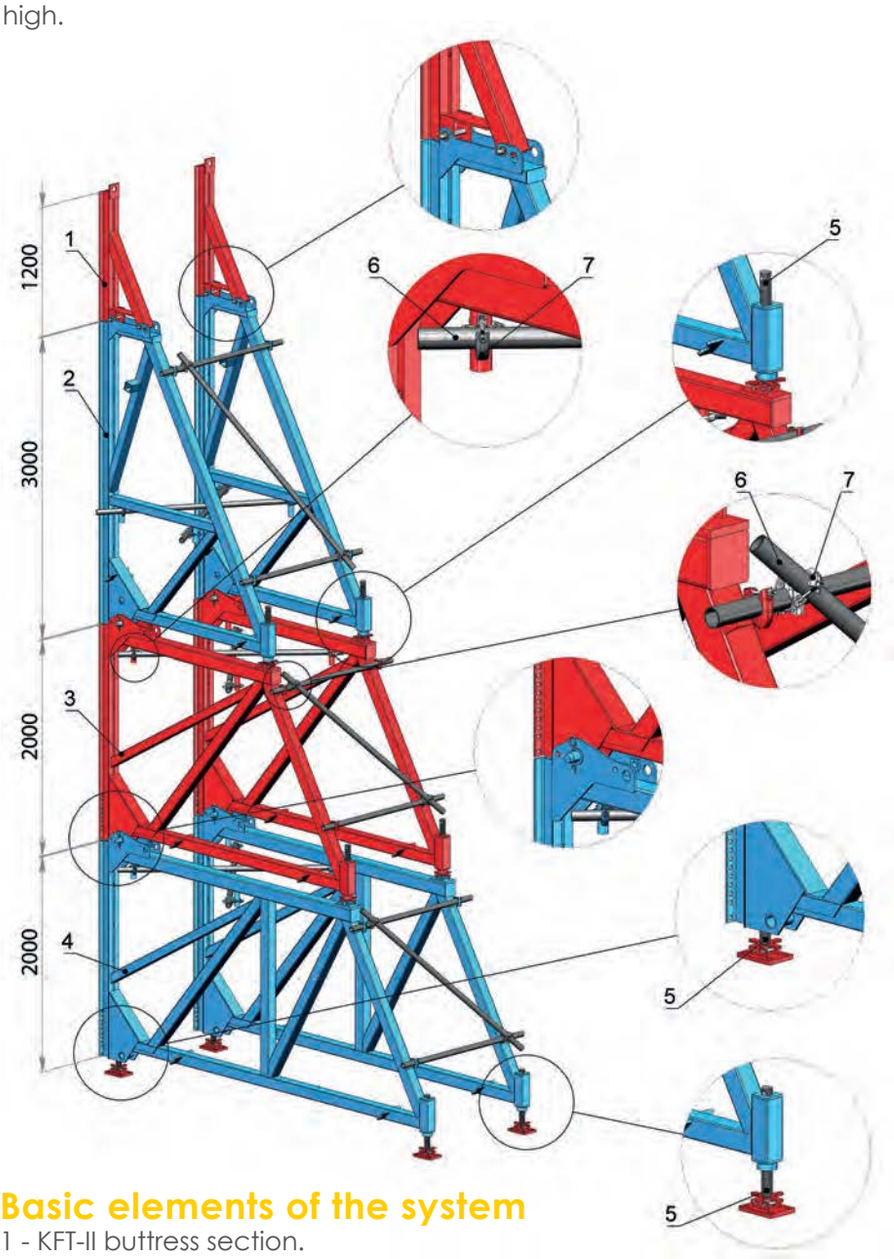
BUTTRESS FORMWORK

Purpose

The counterforce formwork allows the construction of reinforced concrete structures in cases where the opposing side of the panels cannot be used. For example, when concreting excavation walls, tunnel walls, large-scale reinforced concrete base structures, etc.
PSK-KF is compatible with small- and large-size steel/aluminum wall and girder-rigging formwork systems of domestic and foreign manufacturers.

Device

The buttress system is made on the basis of trapezoidal sections and allows to build walls from 3 to 8.2 m high.



Basic elements of the system

1 - KFT-II buttress section.
2 - KF-II 3000 buttress section.
3 - Counterforce section KF-II 1-2000.
4 - Counterforce section KF-II 2-2000.
5 - Power jack.
6 - Clamping pipe.
7 - Pipe Clamp.

Allowable design load 60 kN/m2
Maximum height formwork height, m (from the supporting surface to the upper edge of the panel assembly): 8,2

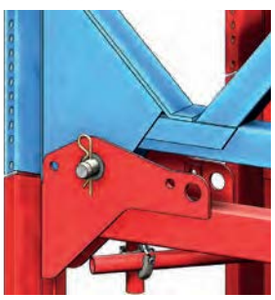


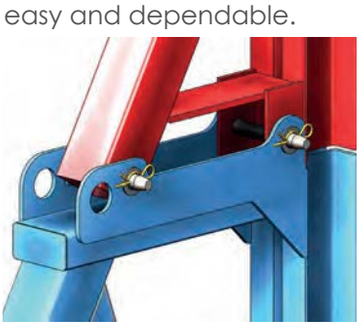




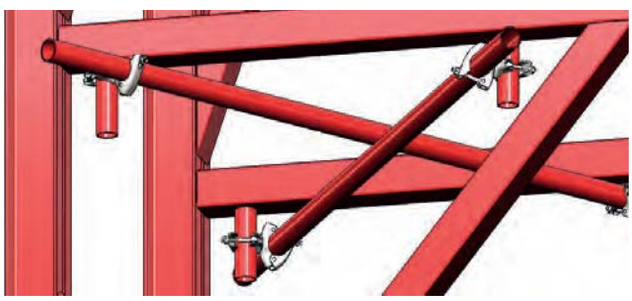
FORMWORK DESIGN FEATURES

Swivel clamp pipe fastening.Quick-release pins make section connections easy and dependable.

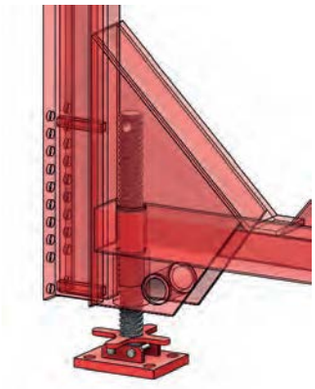


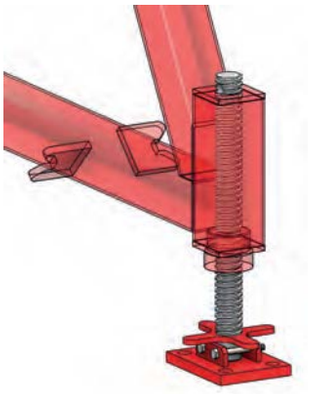


Fixing of pipes with swivel clamps.

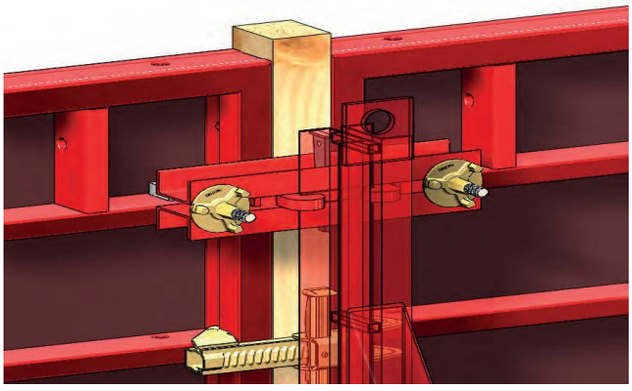


Reinforced jack design with articulated support heel.

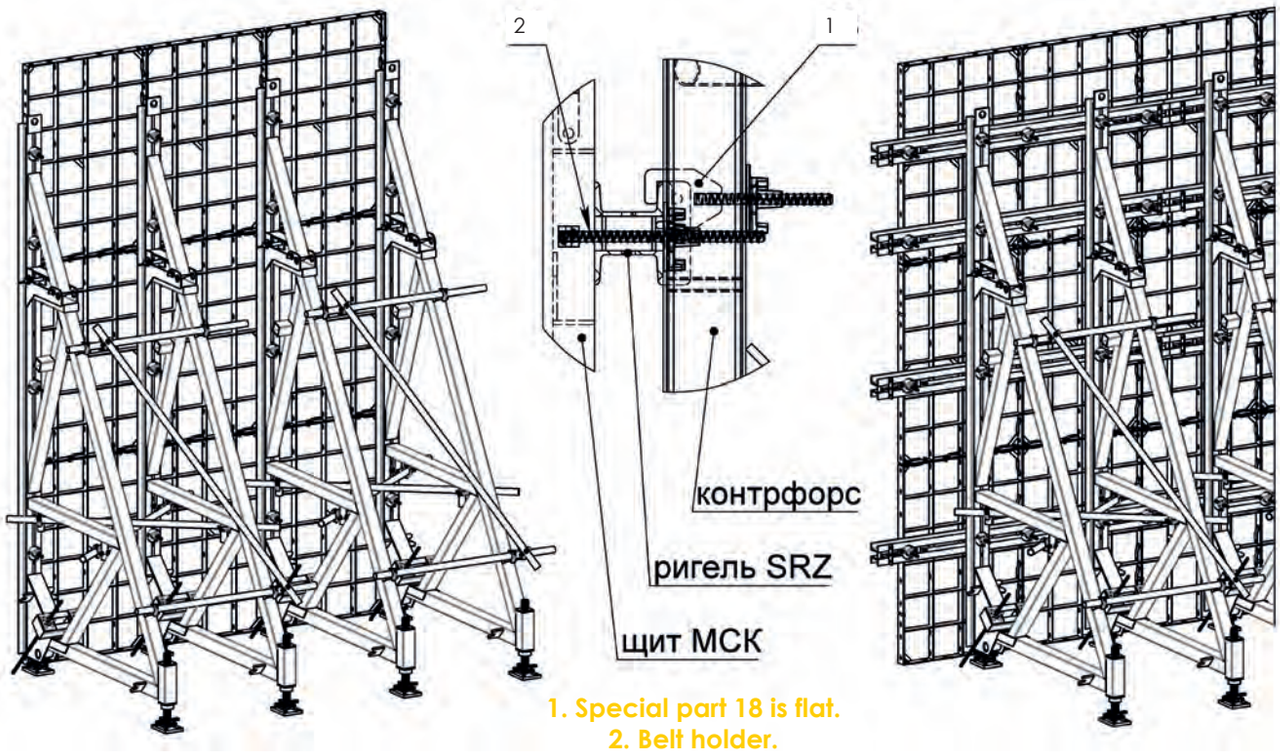




The grip beam facilitates installation by providing a secure connection (optional).

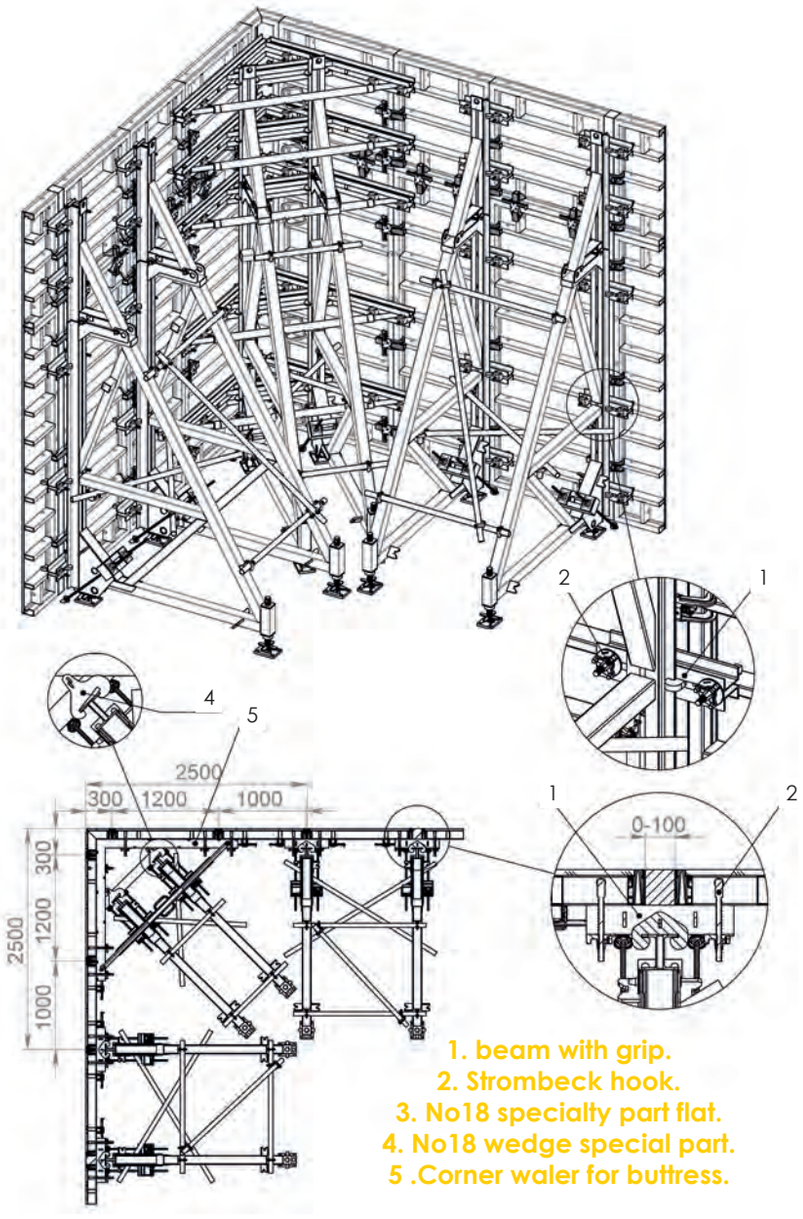


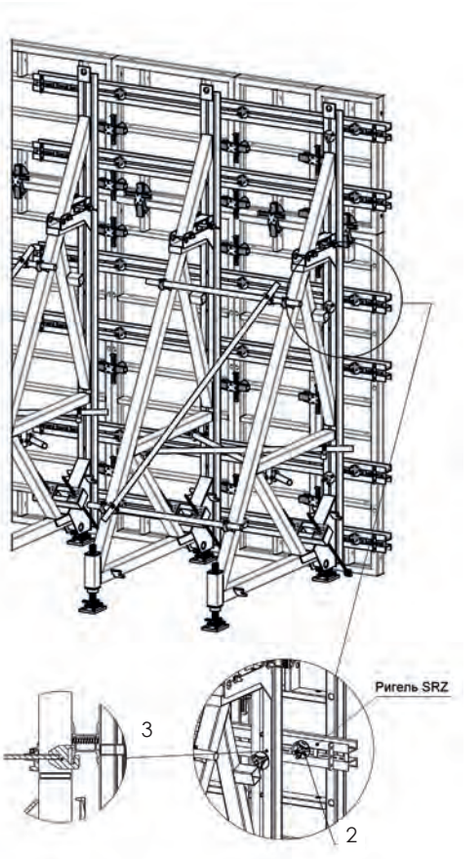
SHALLOW PANEL FORMWORK



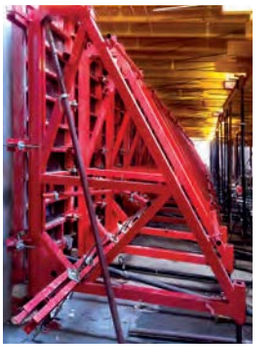
1. Special part 18 is flat.
2. Belt holder.

KF AND PANEL FORMWORK DELTA





1. beam with grip.
2. Strombeck hook.
3. No18 specialty part flat.
4. No18 wedge special part.
5 .Corner waler for buttress.

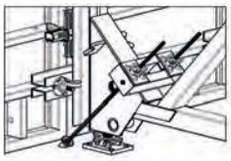




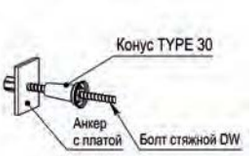


Anchoring methods

The anchoring method is selected based on the load on the buttress, and the customer's preferences (embedded parts, transition cones, chemical anchors).





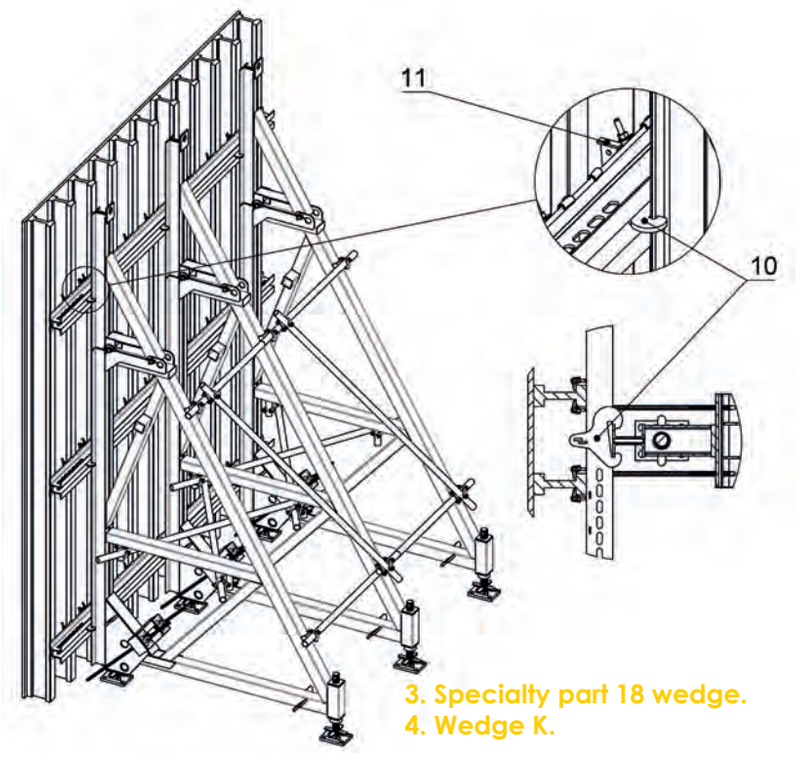


KF AND GIRDER FORMWORK CLASSIK









3. Specialty part 18 wedge.
4. Wedge K.

Assembly of KF counterfort formwork

Application of KF during construction phase.

The combination of Classic and KF formwork systems was used in the construction of Moscow Metro stations.























