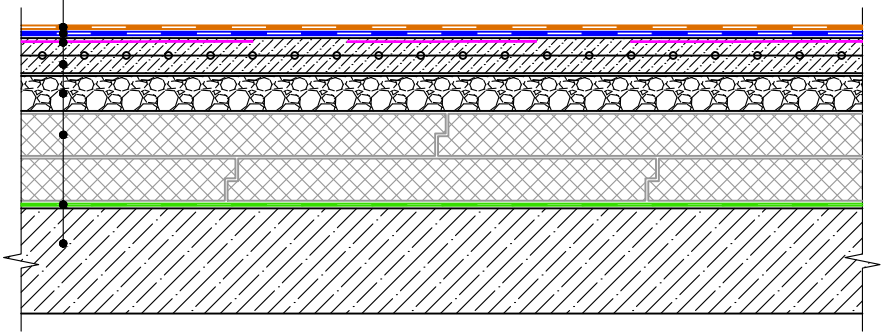
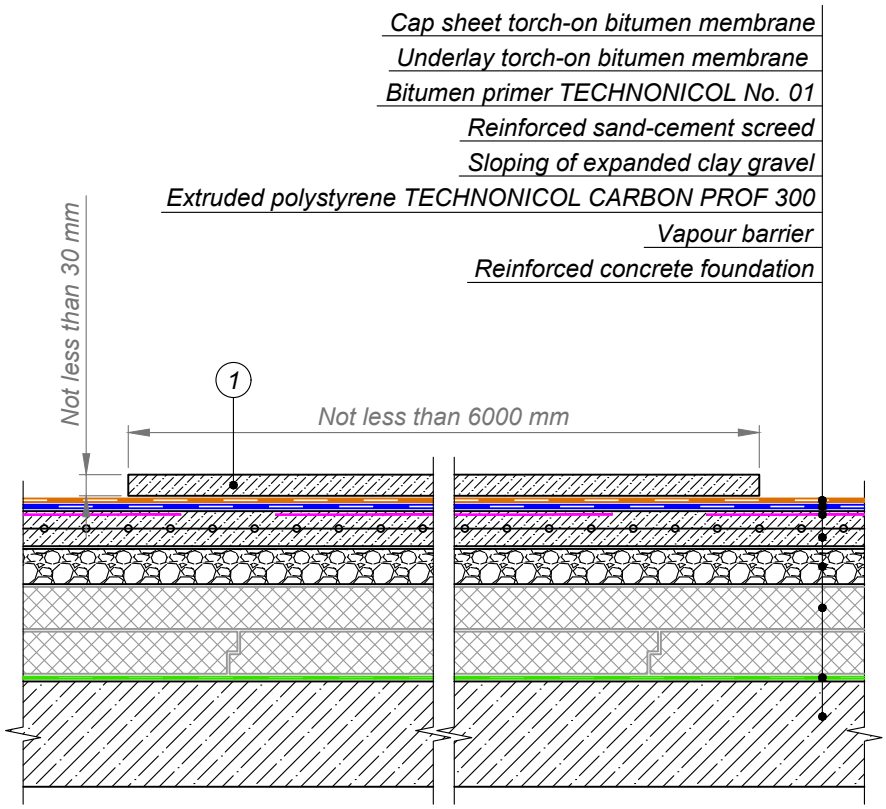
Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



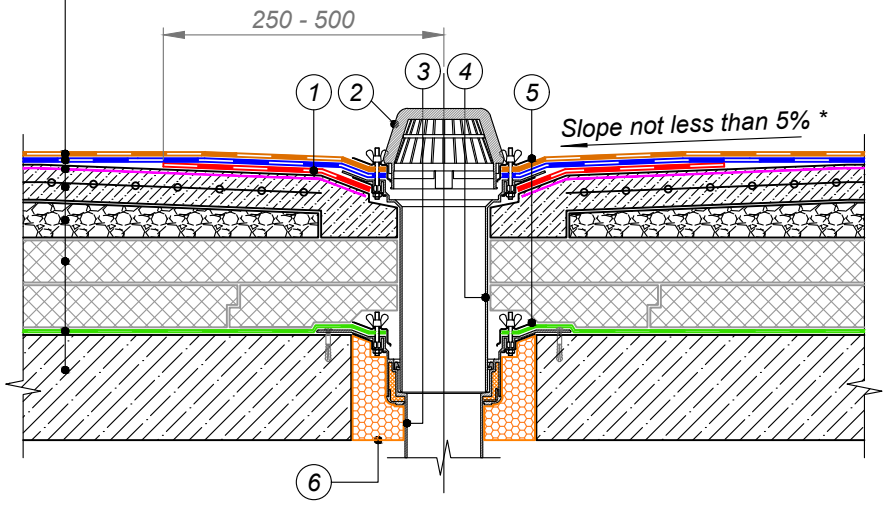
				EXPOSED FLAT ROOF	DESIGN	APPROVED
				STRUCTURE OF ROOFING SOLUTION	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



(1) *Protective coating of slabby or solid non-combustible materials with freeze resistance grade not below 100 and thickness not less than 30 mm*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				FIRE-PREVENTION BAFFLE	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



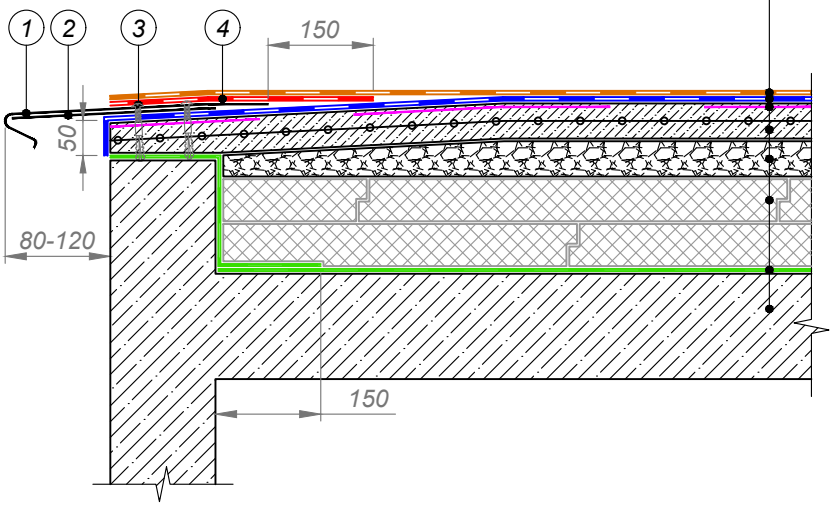
1. *Additional layer of underlay waterproofing bitumen membrane*
2. *Gutter leaf debris trap*
3. *Rainwater funnel*
4. *Extension element*
5. *Compression flange*
6. *Sealing foam*

NOTES

** To provide for increase in slope to the funnel up to 5% within radius of not less than 500 mm around it. It is recommended to provide for the funnel deepening by 20-30 mm relative to the roof level.*

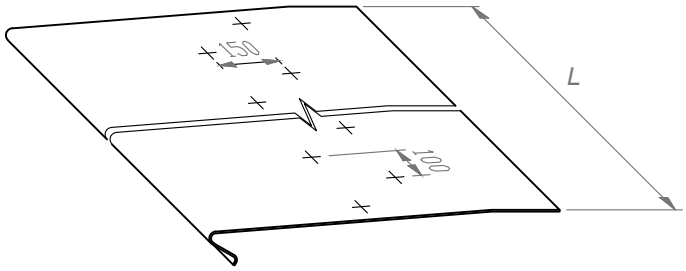
				EXPOSED FLAT ROOF	DESIGN	APPROVED
				RAINWATER FUNNEL	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

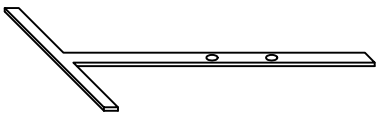
Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



Galvanized steel drip edge

T-shaped fastening element

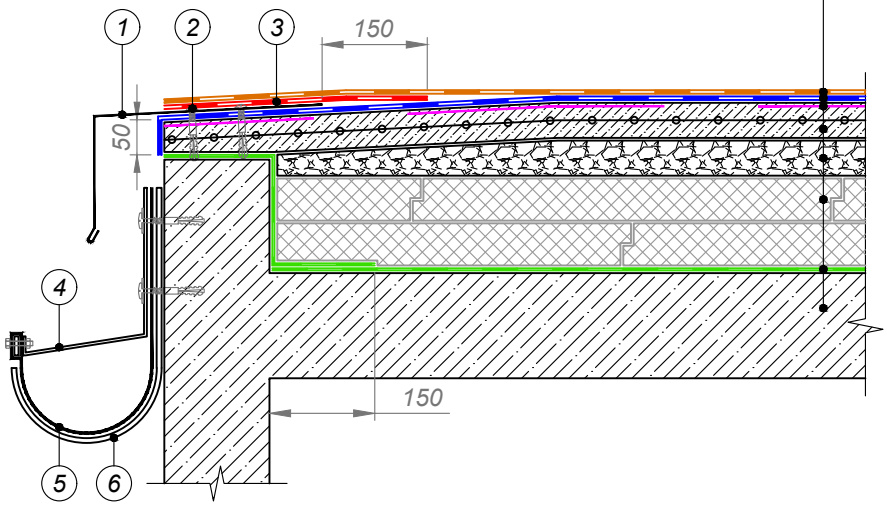




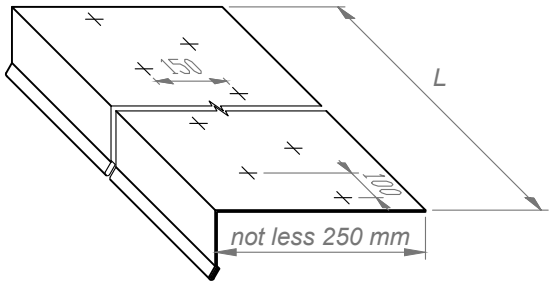
(1) *Galvanized steel drip edge (section length L not more than 4000 mm)*
(2) *T-shaped fastening elements to be placed at 600 mm intervals*
(3) *Fastening by self-tapping screws at 100 mm intervals with staggered arrangement*
(4) *Additional layer of underlay waterproofing bitumen membrane*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				EXTERNAL FREE-WATER DRAIN	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

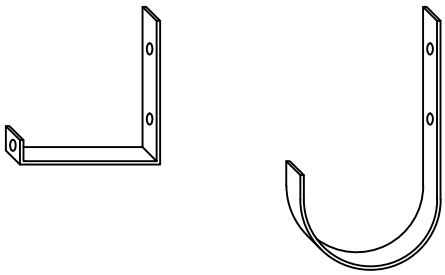
Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



Galvanized steel drip edge

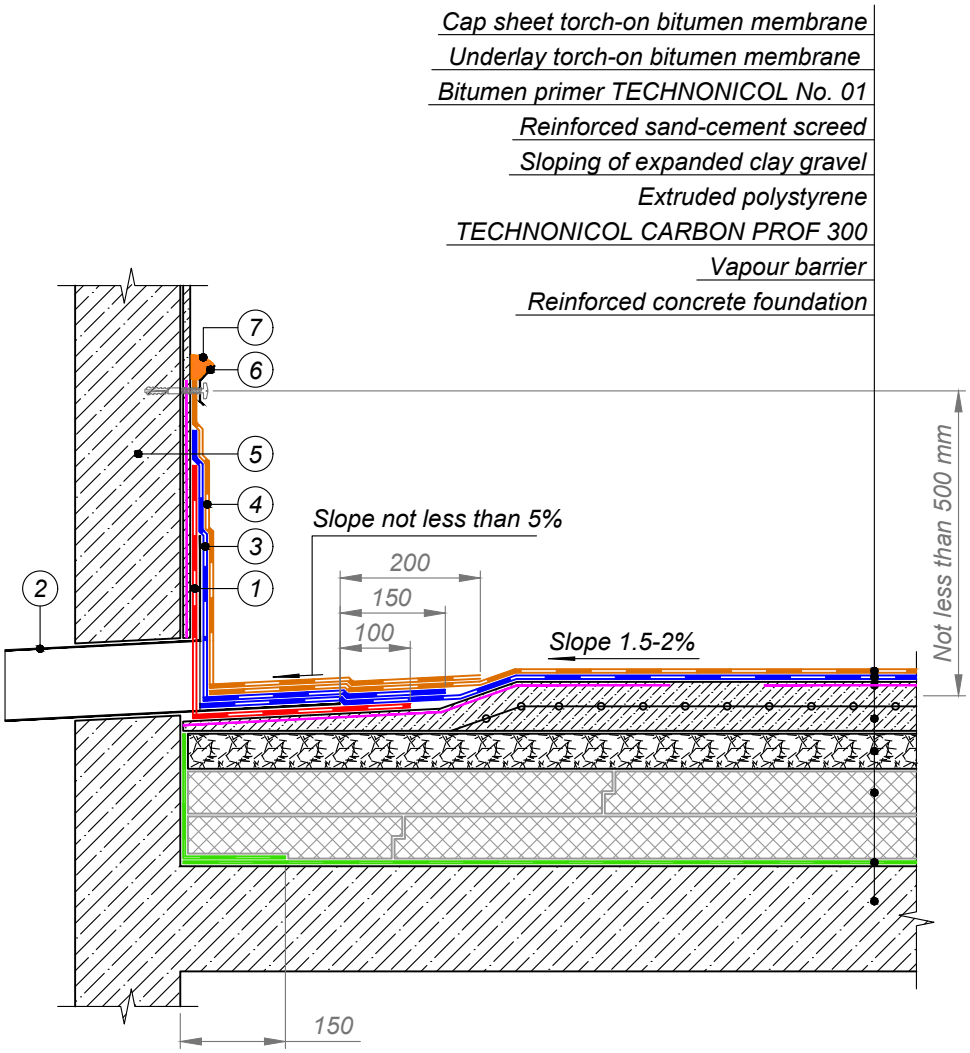


Fastening elements 4, 5



1. *Galvanized steel drip edge (section length L not more than 4000 mm)*
2. *Additional layer of underlay waterproofing bitumen membrane*
3. *Fastening by self-tapping screws at 100 mm intervals with staggered arrangement*
4. *Fastening elements to be arranged with intervals from 300 mm to 900 mm depending on the gutter design*
5. *Eaves gutter*
6. *Fastening elements to be arranged with intervals from 300 mm to 900 mm depending on the gutter design*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				EXTERNAL CENTRALIZED DRAIN	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



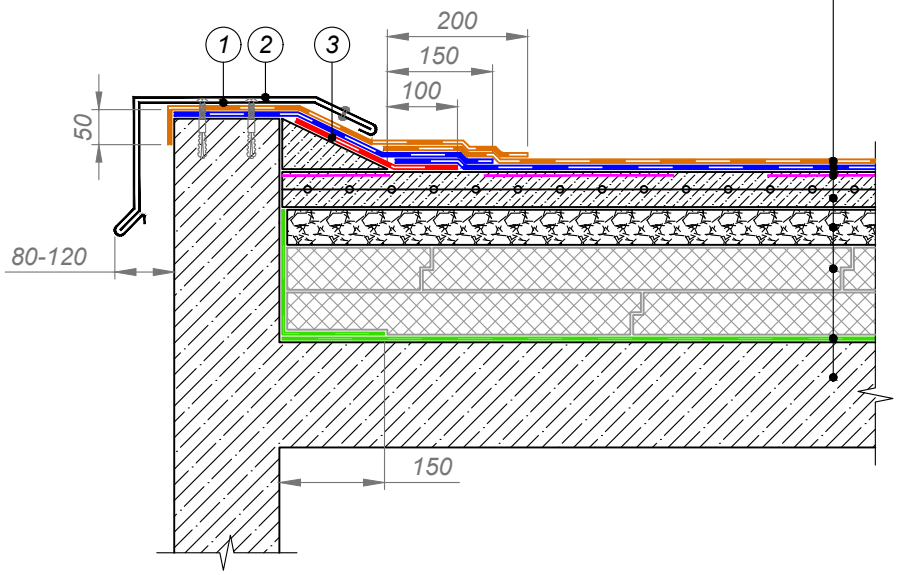
1. Strengthening layer - Underlay bitumen membrane
2. Funnel for parapet
3. Bottom layer of system membrane on vertical surface - Underlay bitumen membrane
4. Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane
5. Reinforced concrete wall plastered with cement-sand grout on metal grid fixed with screws
6. Edge strip to fastened by self-tapping screws at 200 mm intervals
7. Sealing mastic

NOTES

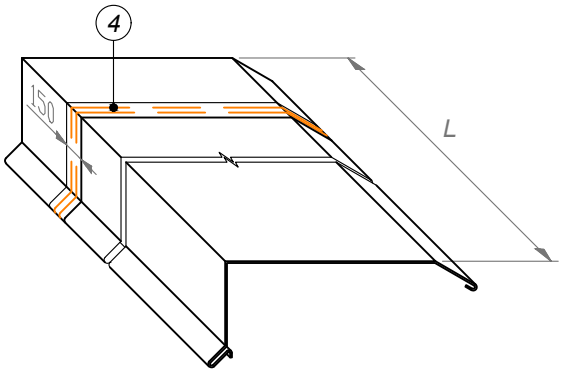
1. Vapour barrier to be laid over the thermal insulation level.

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				PARAPET OVERFLOW	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

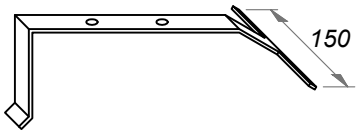
Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



Galvanized steel drip edge



Fastening element

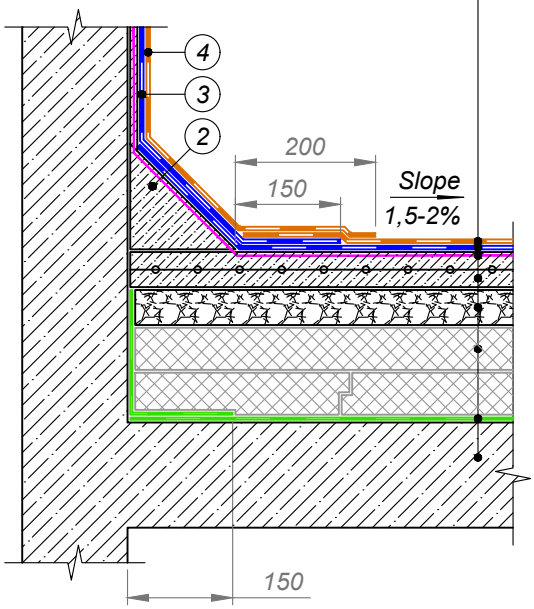


(1) *Fastening elements to be placed at 600 mm intervals*
(2) *Galvanized steel drip edge (section length L not more than 4000 mm)*
(3) *Additional layer of waterproofing membrane - Underlay bitumen membrane*
(4) *At the place of drip edge sections junction to apply two paths of sealing mastic*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				CONJUGATION OF ROOF WITH OUTSIDE WALL WITHOUT ARRANGEMENT OF PARAPET	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

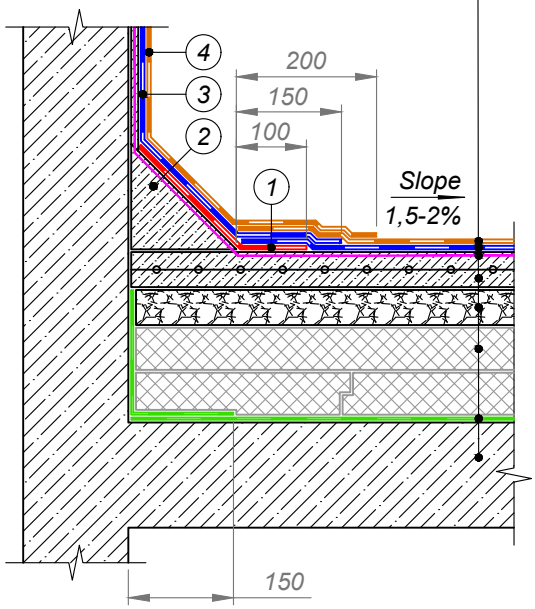
Variant 1

Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



Variant 2

Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bituminous primer TECHNONICOL No. 01
Bitumen primer TECHNONICOL No. 01
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



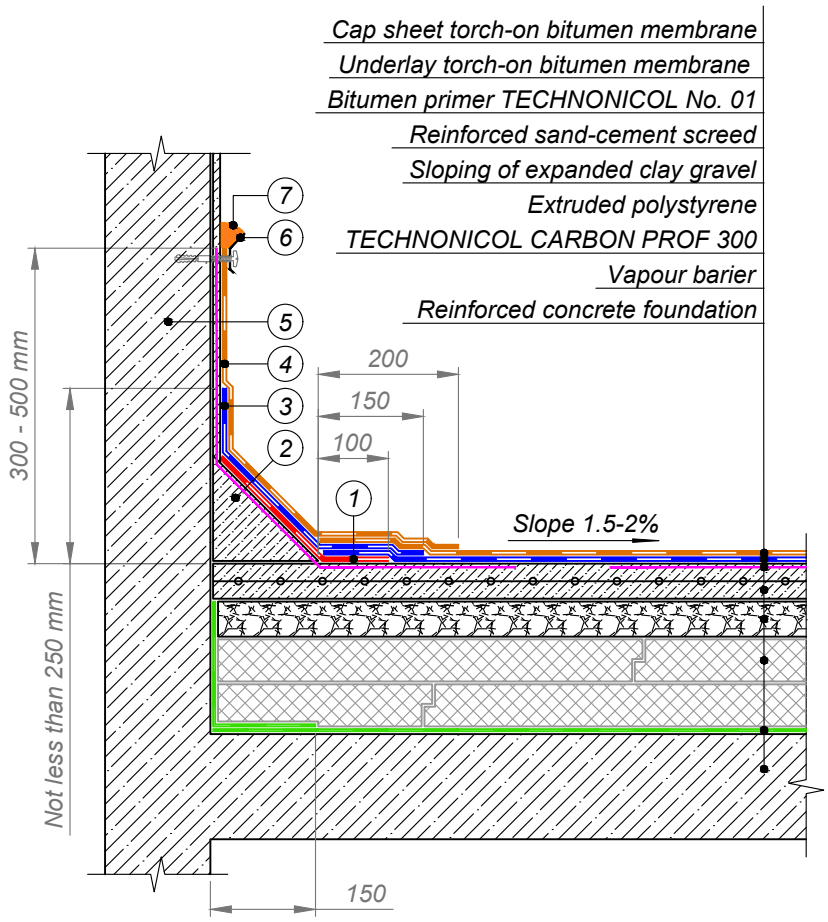
1. *Strengthening layer - Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane*
4. *Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane*

NOTES

1. Variant 1 is not applicable at installation of waterproofing membranes along junction.

2. Variant 2 is applicable at installation of waterproofing membranes using any methods.

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				VARIANTS OF ROOFING MATERIALS LAYOUT AT JUNCTIONS TO VERTICAL SURFACES	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

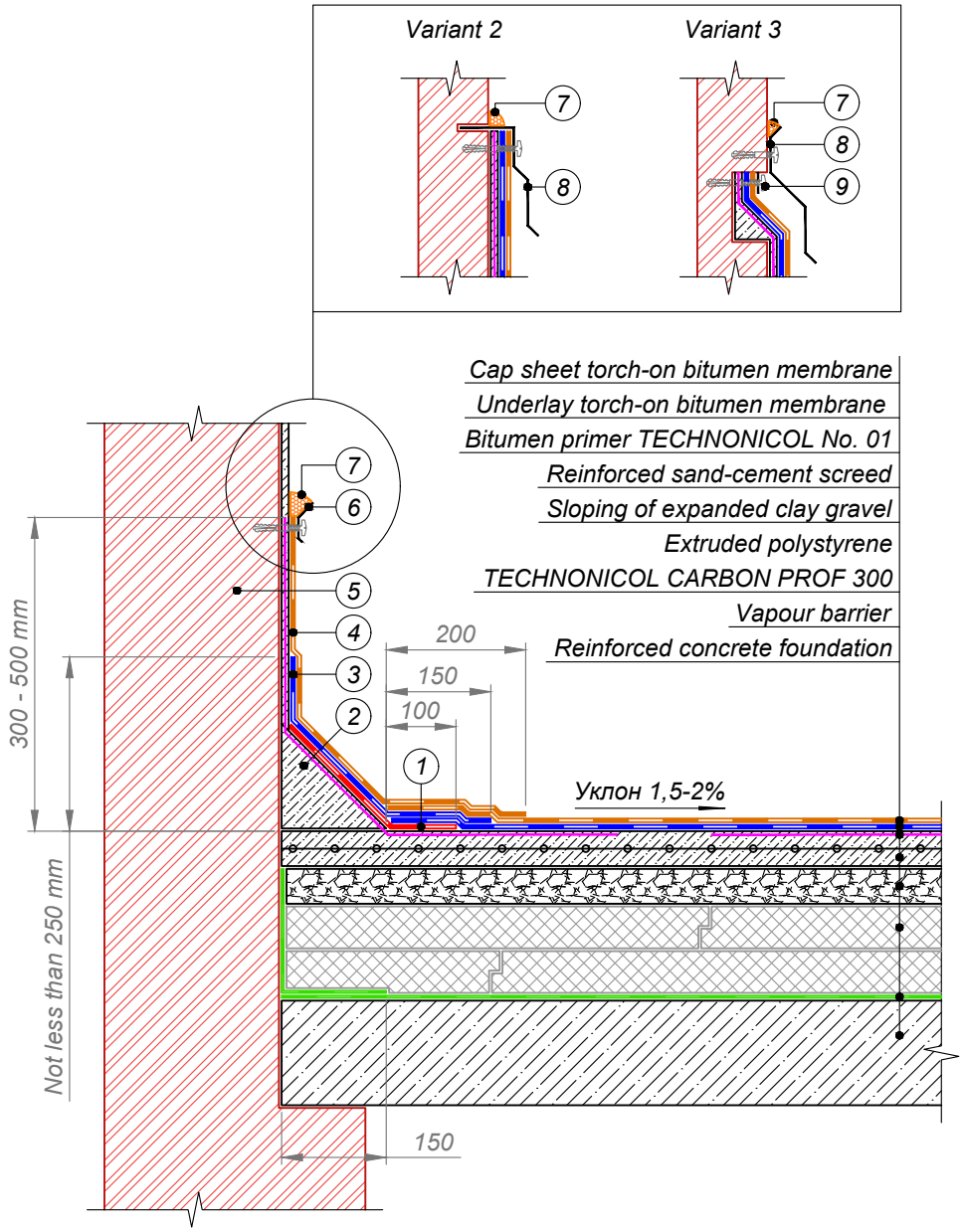


1. *Strengthening layer - Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane*
4. *Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane*
5. *Reinforced concrete wall plastered with cement-sand grout on metal grid fixed with screws*
6. *Edge strip to fastened by self-tapping screws at 200 mm intervals*
7. *Sealing mastic*

NOTES

1. *Vapour barrier to be laid over the thermal insulation level.*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				INSTALLATION ON VERTICAL SURFACES OF REINFORCED CONCRETE WALLS	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

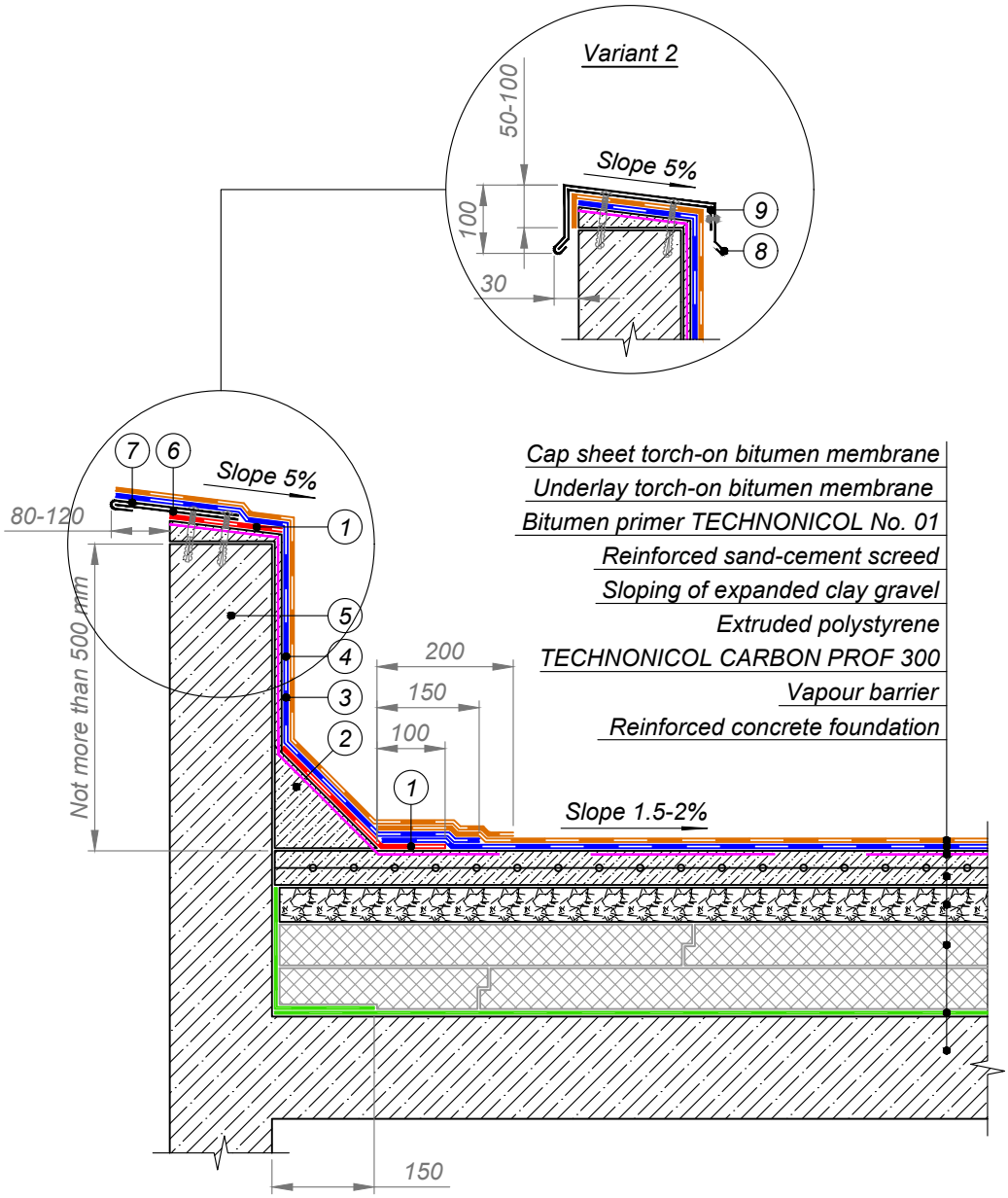


1. *Strengthening layer -Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane*
4. *Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane*
5. *Brick wall plastered with cement-sand grout on metal grid*
6. *Edge strip to fastened by self-tapping screws at 200 mm intervals*
7. *Sealing mastic*
8. *Galvanized steel drip edge to be fastened by self-tapping screws with rubber washer at 200-250 mm intervals*
9. *Roof cladding to be fastened by self-tapping screws with washer at 200-250 mm intervals*

NOTES

1. Vapour barrier to be laid over the thermal insulation level.

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				INSTALLATION ON VERTICAL SURFACES OF BRICK WALLS	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

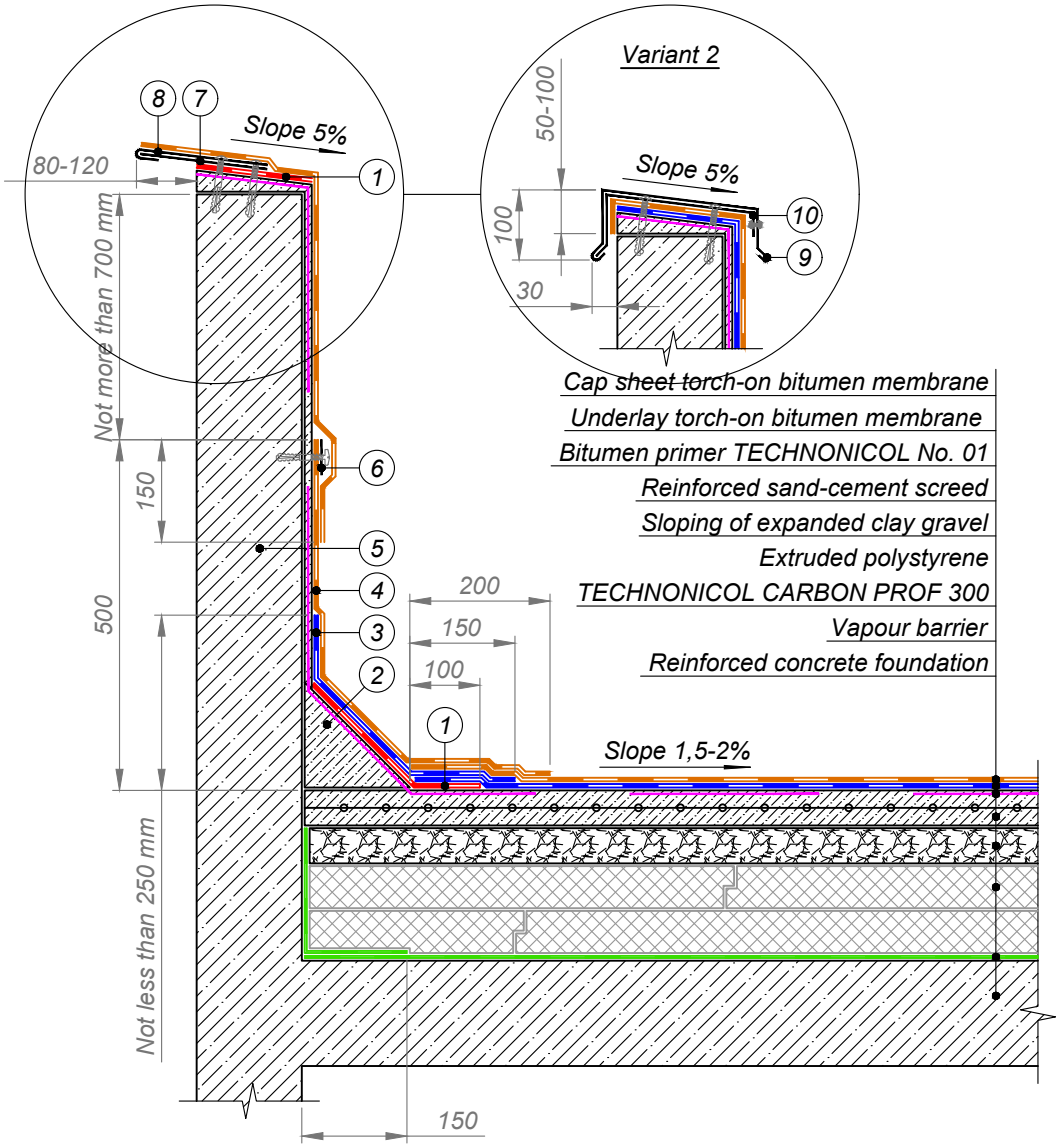


1. *Strengthening layer - Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane*
4. *Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane*
5. *Reinforced concrete foundation plastered with cement-sand grout on metal grid fixed with screws*
6. *T-shaped spike*
7. *Galvanized steel drip edge*
8. *Galvanized steel flashing*
9. *Fastening element*

NOTES

1. Vapour barrier to be laid over the thermal insulation level.

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO PARAPET NOT MORE THAN 500 MM IN HEIGHT	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

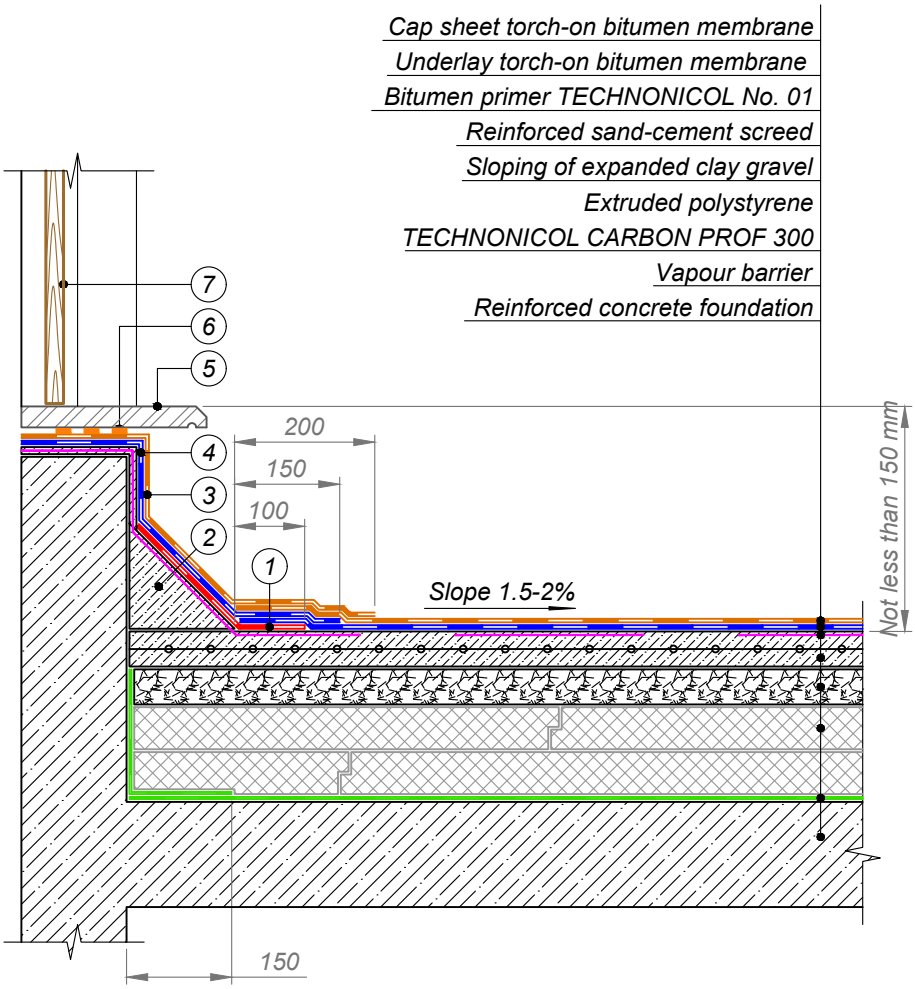


1. *Strengthening layer - Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane*
4. *Top layer of waterproofing system on vertical surface - Underlay bitumen membrane*
5. *Reinforced concrete foundation plastered with cement-sand grout on metal grid fixed with screws*
6. *Pressure strip, fastened at 200 mm intervals*
7. *T-shaped spike*
8. *Galvanized steel drip edge*
9. *Galvanized steel flashing*
10. *Fastening element*

NOTES

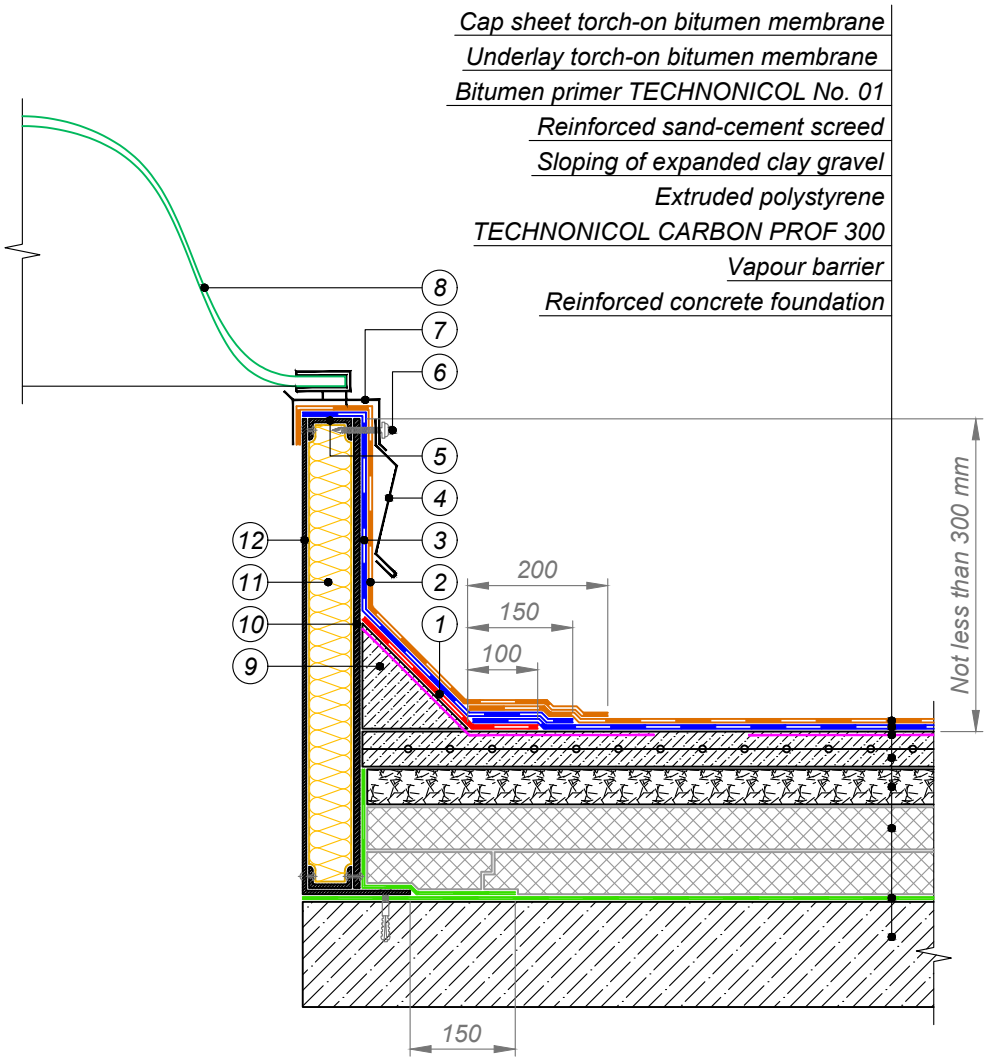
1. Vapour barrier to be laid over the thermal insulation level.

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO PARAPET MORE THAN 500 MM IN HEIGHT	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



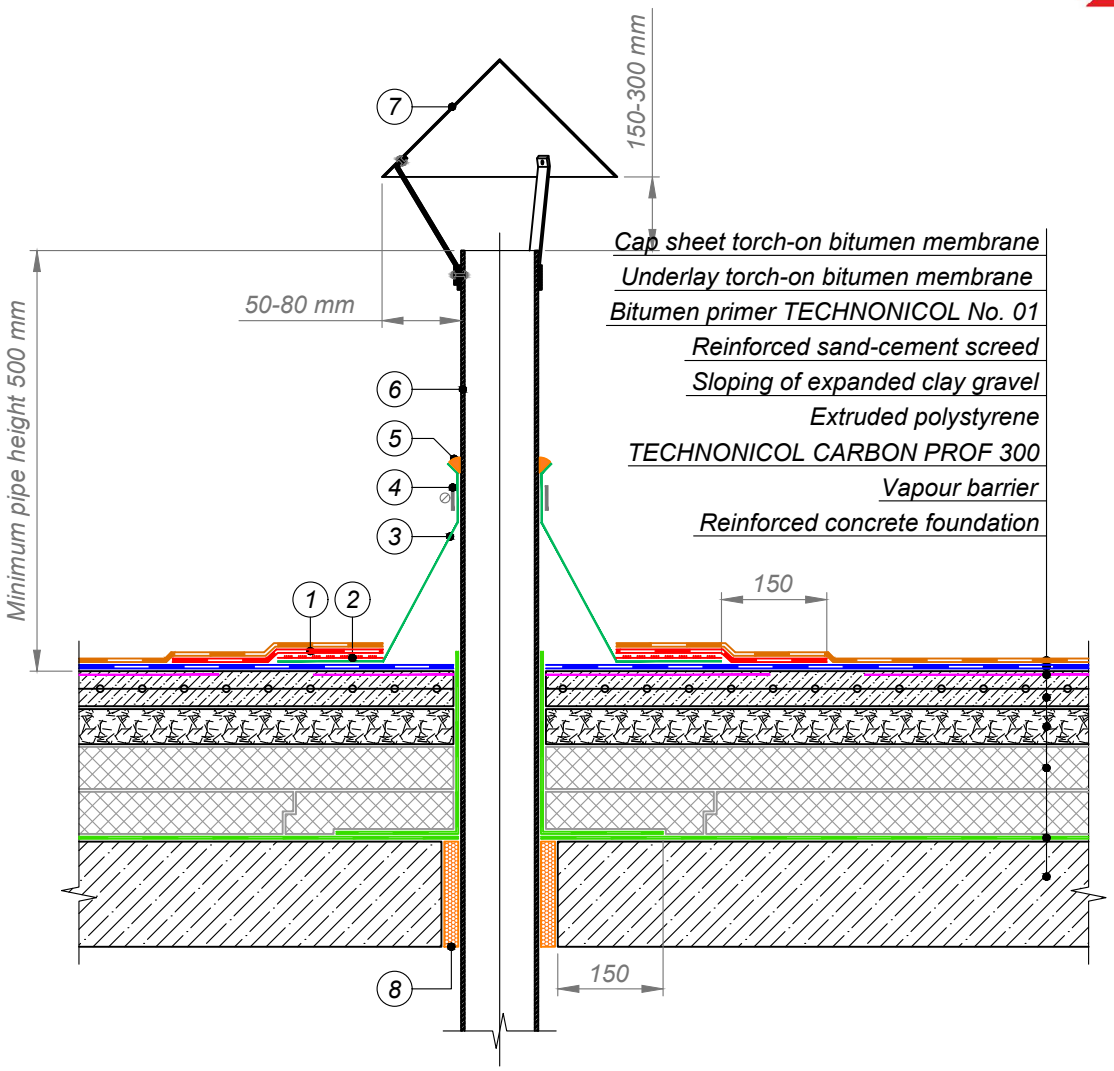
1. *Strengthening layer - Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane*
4. *Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane*
5. *Sill plate*
6. *Sealing mastic*
7. *Door*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO EXIT ON THE ROOF	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



1. *Strengthening layer - Underlay bitumen membrane*
2. *Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane*
3. *Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane*
4. *Removable metal flashing*
5. *Galvanized steel profile to be fastened by rivets*
6. *Fasten the roof cowl base with intervals not more than 500 mm, depending on wind load, but not less than 2 fastening elements per one side*
7. *Metal cap*
8. *Skylight translucent dome*
9. *Transitional upstand of lightweight concrete*
10. *CBPB or ACB*
11. *Stone wool thermal insulation*
12. *Galvanized steel sheet not less than 3 mm in thickness*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO SKYLIGHT	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

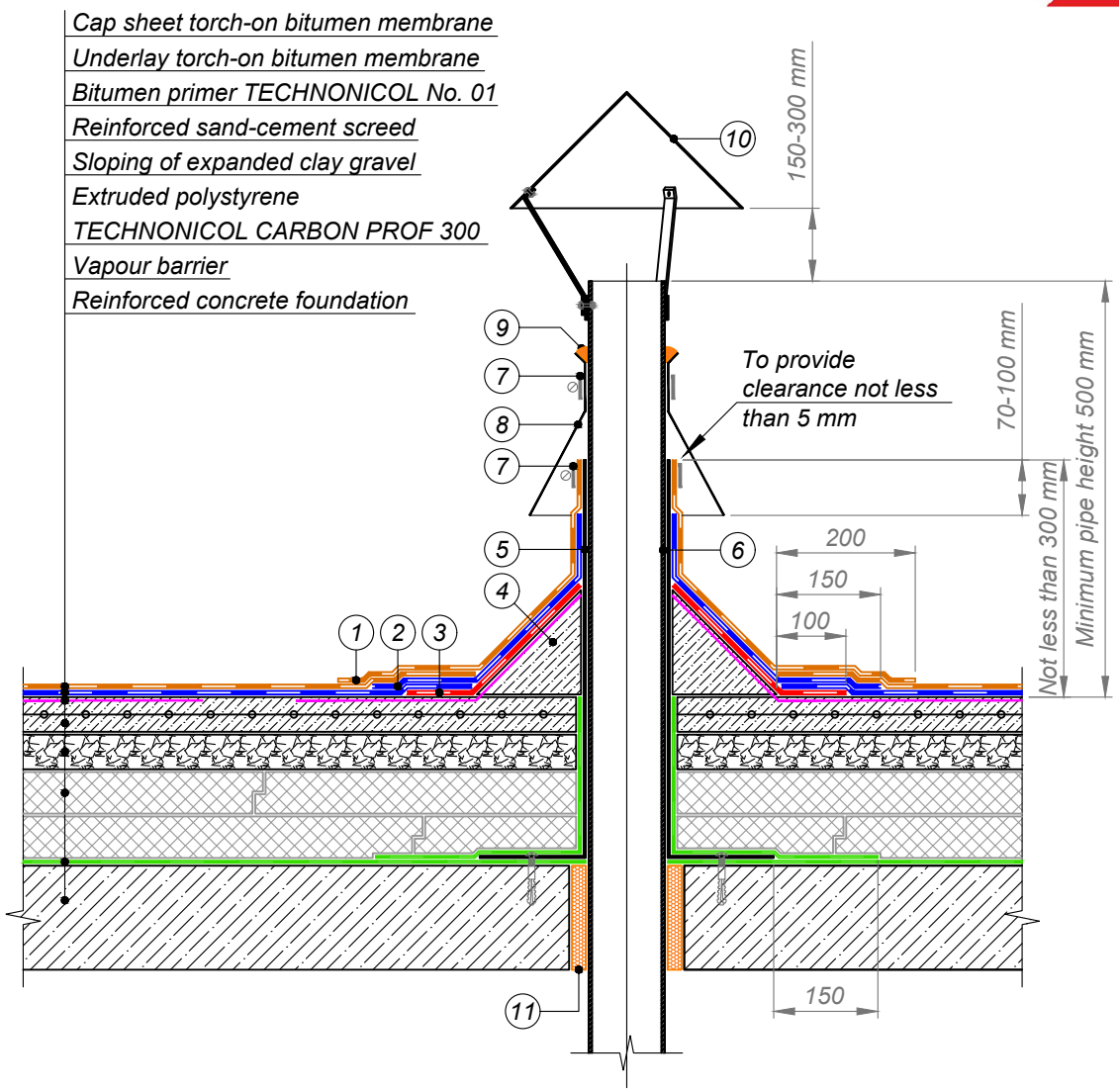


1. *Additional layer of waterproofing membrane - Underlay bitumen membrane*
2. *Hot roofing mastic*
3. *Pre-formed EPDM component*
4. *Compression metal clamp*
5. *Sealing mastic*
6. *Pipe*
7. *Roof cowl*
8. *Sealing foam*

NOTES

The solution is used for single cold pipe up to 250 mm in diameter, anchors, antenna bracings

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO COLD PIPE VARIANT 1	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

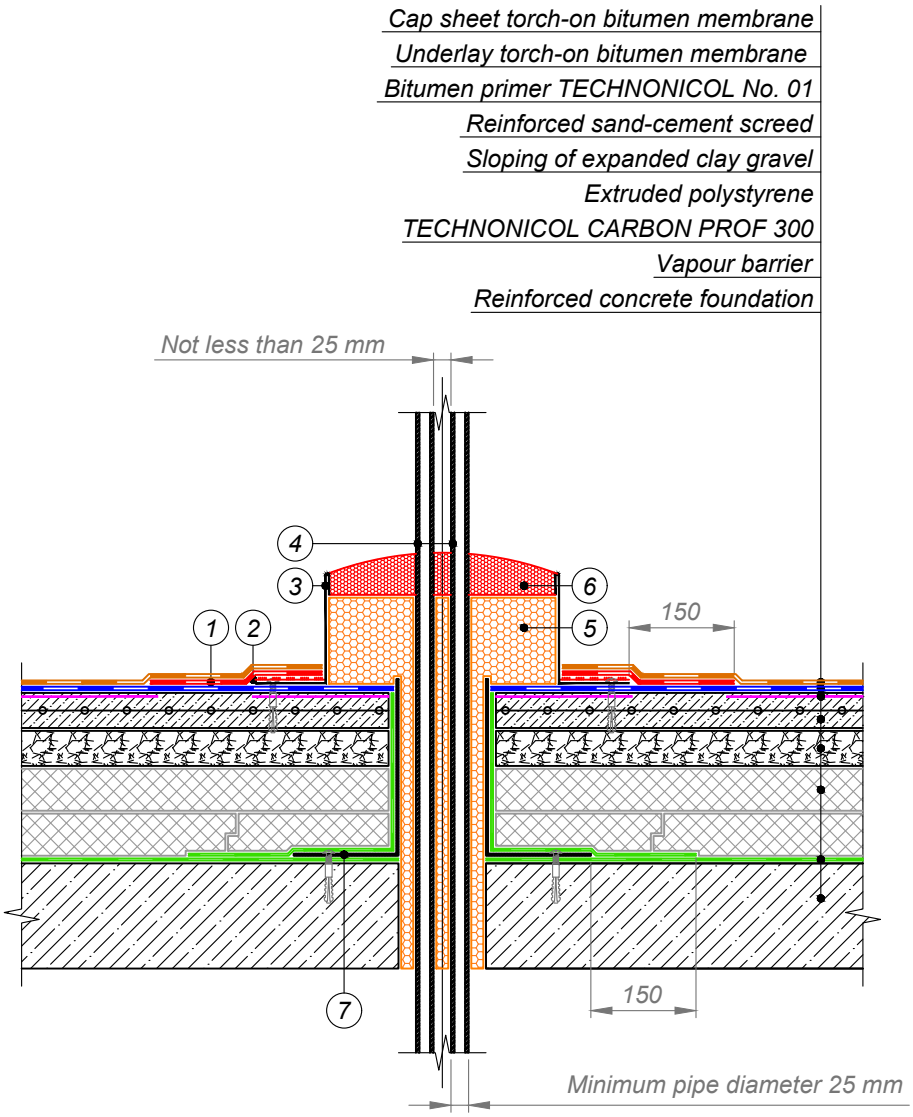


1. Cap sheet torch-on bitumen membrane
2. Underlay torch-on bitumen membrane
3. Additional layer of waterproofing membrane - Underlay torch-on bitumen membrane
4. Transitional upstand of lightweight concrete
5. Galvanized steel sleeve not less than 1 mm in thickness
6. Pipe
7. Compression metal clamp
8. Metal rain collar
9. Sealing mastic
10. Roof cowl
11. Sealing foam

NOTES

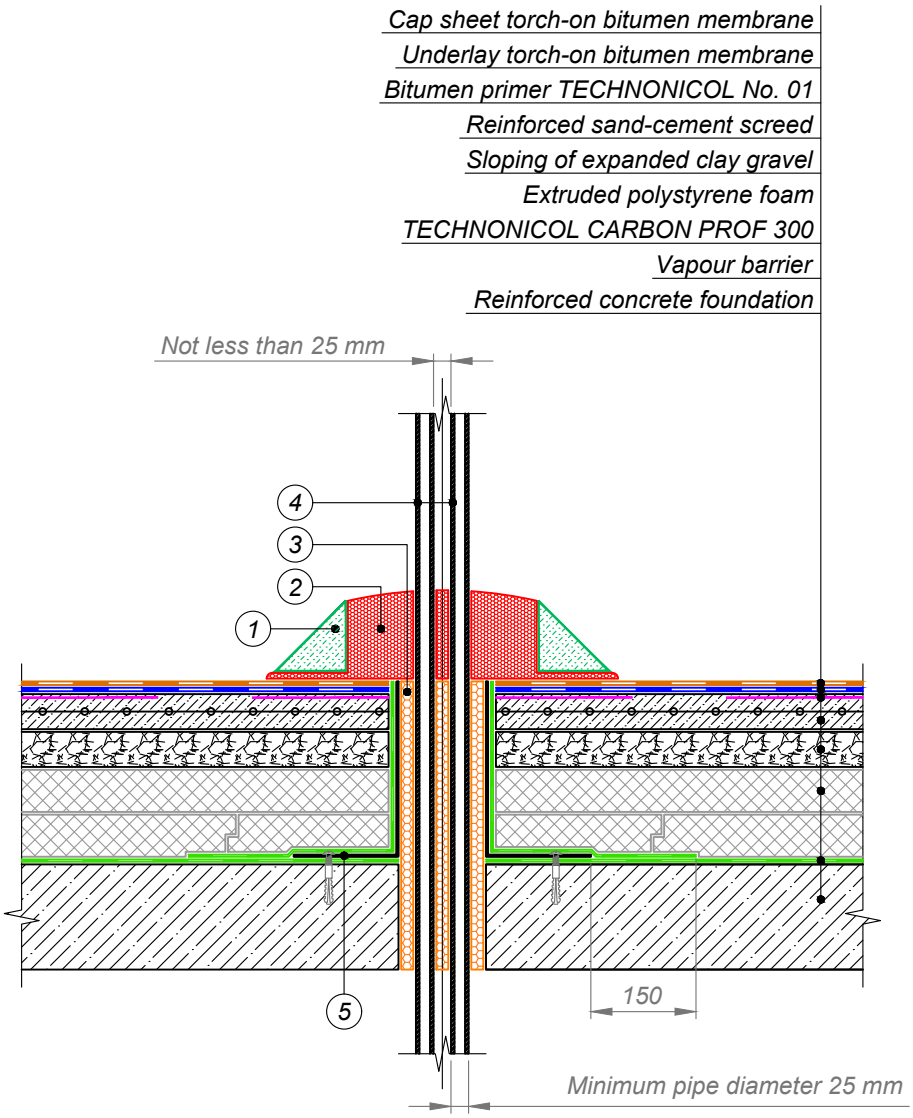
The solution is used for single cold pipe up to 250 mm in diameter, anchors, antenna bracings

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO COLD PIPE VARIANT 2	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



1. Additional layer of waterproofing membrane - Underlay bitumen membrane
2. Hot roofing mastic
3. Watertight sleeve (minimum height 100 mm) to be fastened by self-tapping screws to screed, sleeve flange width 100 mm
4. Pipe bundle
5. Sealing foam
6. Two-component bitumen-polyurethane sealant
7. Metal sleeve

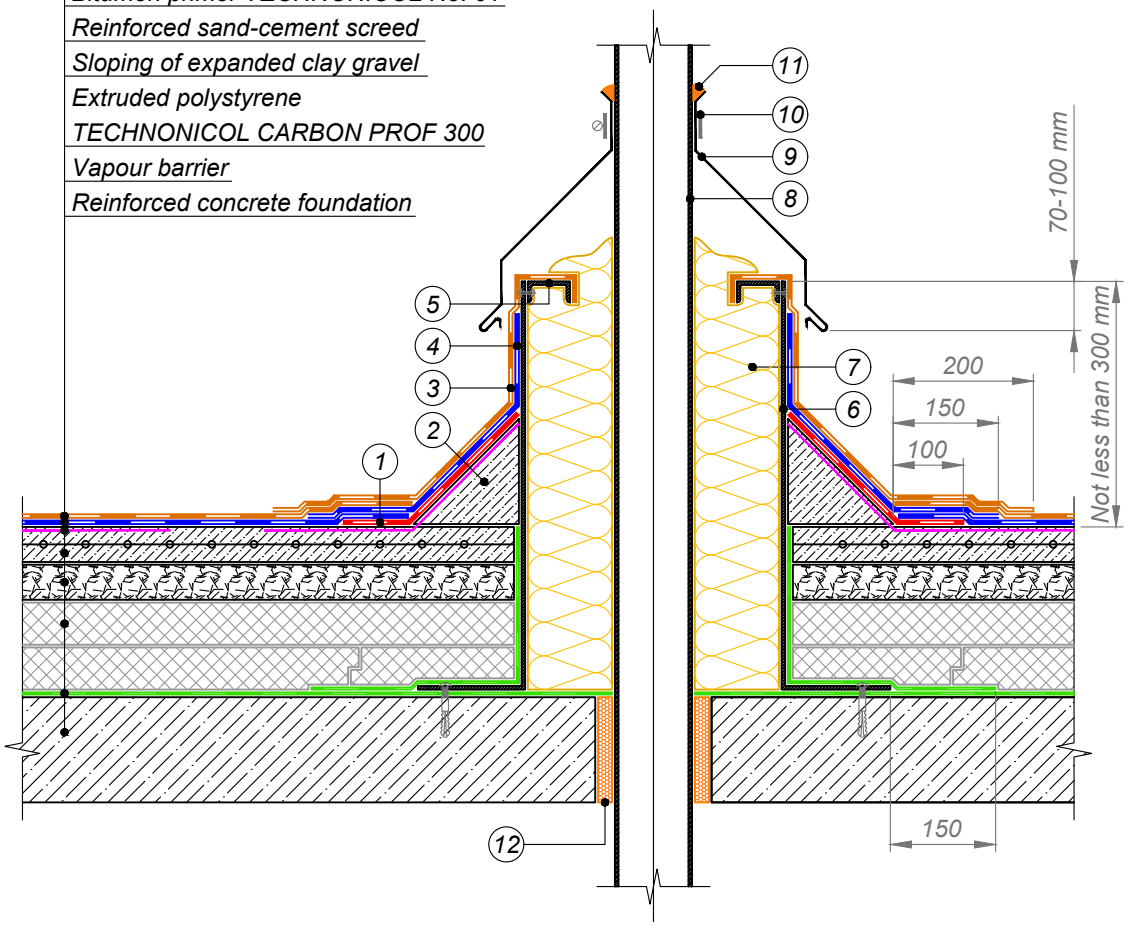
				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO COLD PIPES BUNDLE. VARIANT 1	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



1. *Polymer frame*
2. *Two-component bitumen-polyurethane sealant*
3. *Sealing foam*
4. *Pipe bundle*
5. *Metal sleeve*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO COLD PIPES BUNDLE. VARIANT 2	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



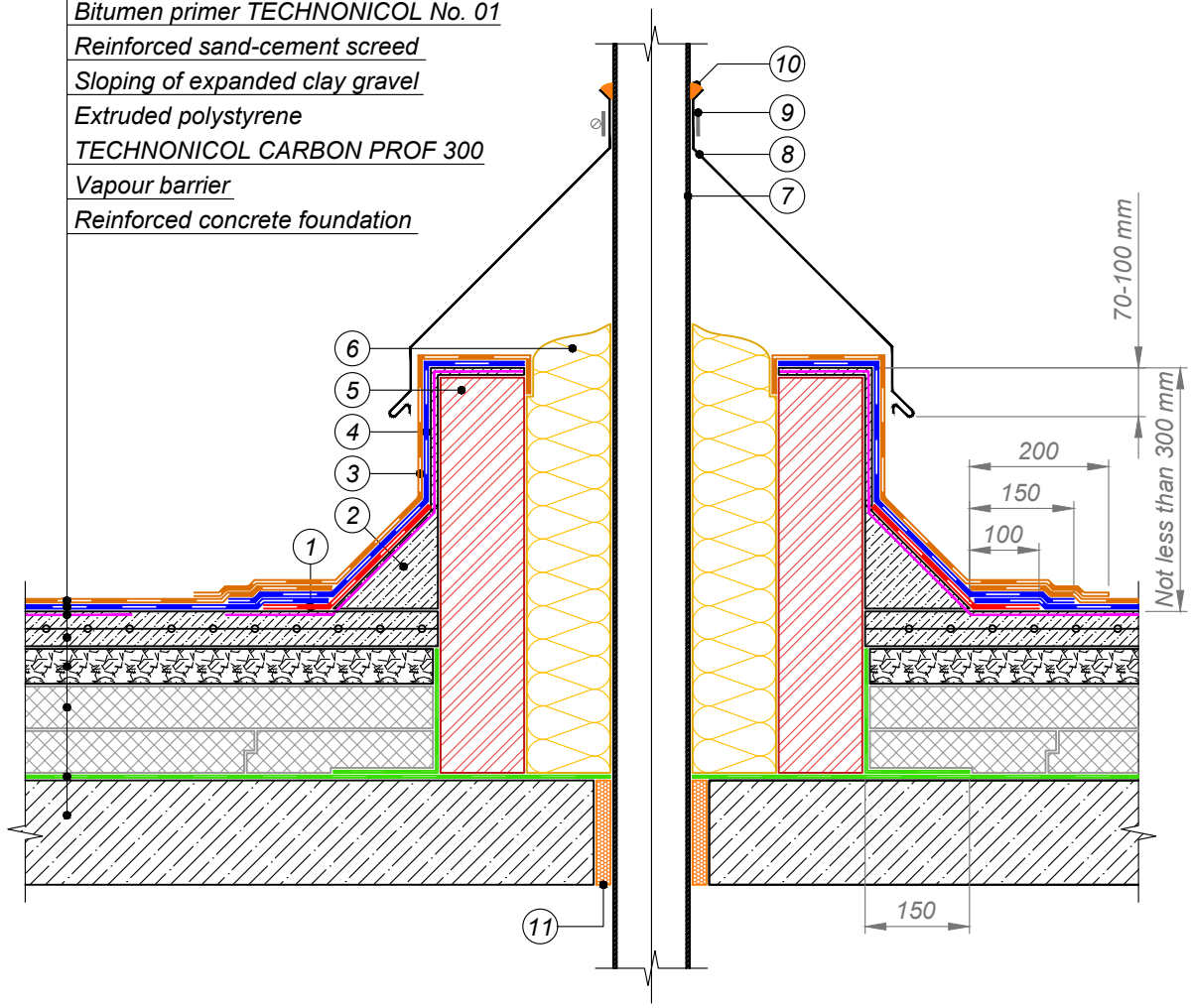
1. *Additional layer of waterproofing membrane - Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane*
4. *Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane*
5. *Galvanized steel profile to be fastened by rivets*
6. *Galvanized steel duct not less than 3 mm in thickness*
7. *Stone wool thermal insulation not less than 120 mm in thickness*
8. *Pipe*
9. *Galvanized steel flashing*
10. *Compression metal clamp*
11. *Sealant **
12. *Sealing foam*

NOTES

** Polyurethane sealant to be applied at temperatures up to 80°C.*
At high temperatures use specialized high-temperature sealants

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO HOT PIPE VARIANT 1	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



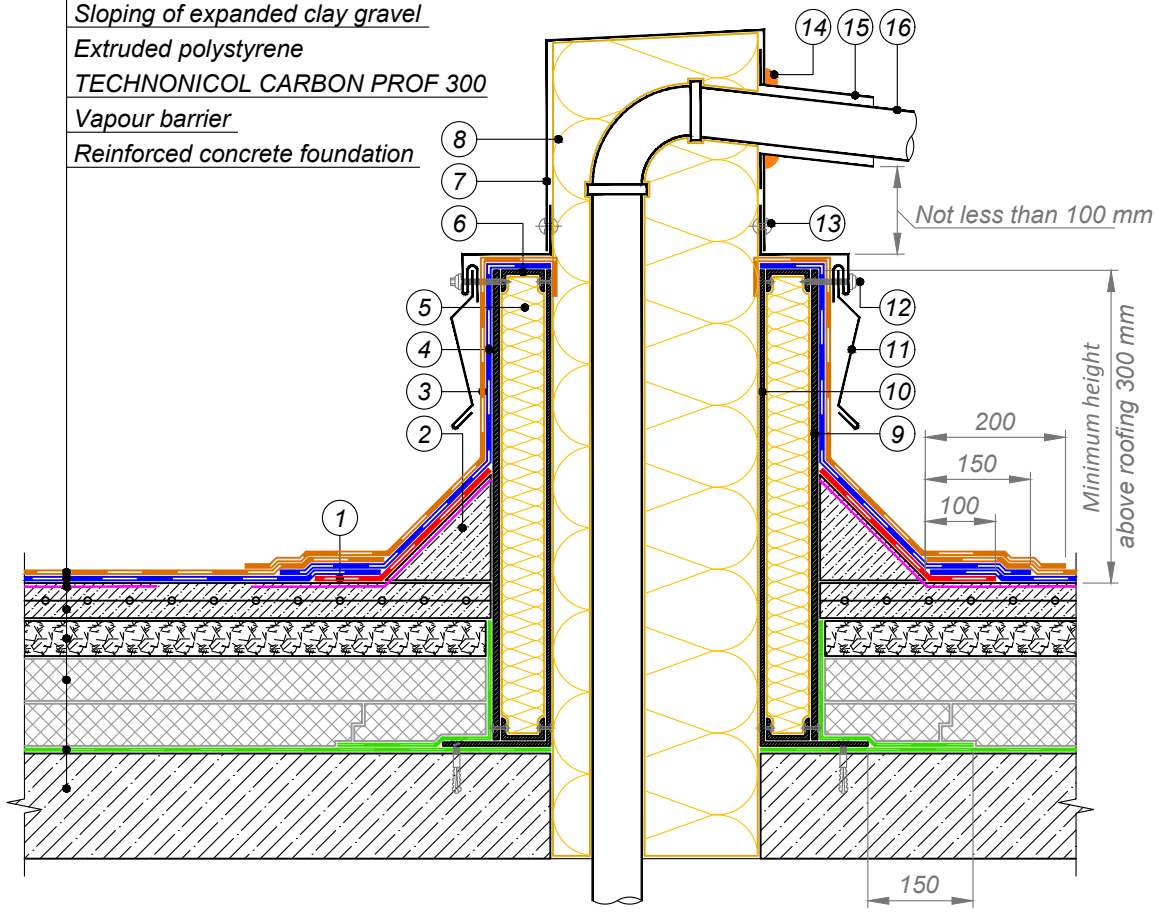
1. Additional layer of waterproofing membrane - Underlay bitumen membrane
2. Transitional upstand of lightweight concrete
3. Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane
4. Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane
5. Brickwork plastered with cement-sand grout
6. Stone wool thermal insulation not less than 120 mm in thickness
7. Pipe
8. Galvanized steel flashing
9. Compression metal clamp
10. Sealant *
11. Sealing foam

NOTES

* Polyurethane sealant to be applied at temperatures up to 80°C. At high temperatures use specialized high-temperature sealants.

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO HOT PIPE VARIANT 2	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation

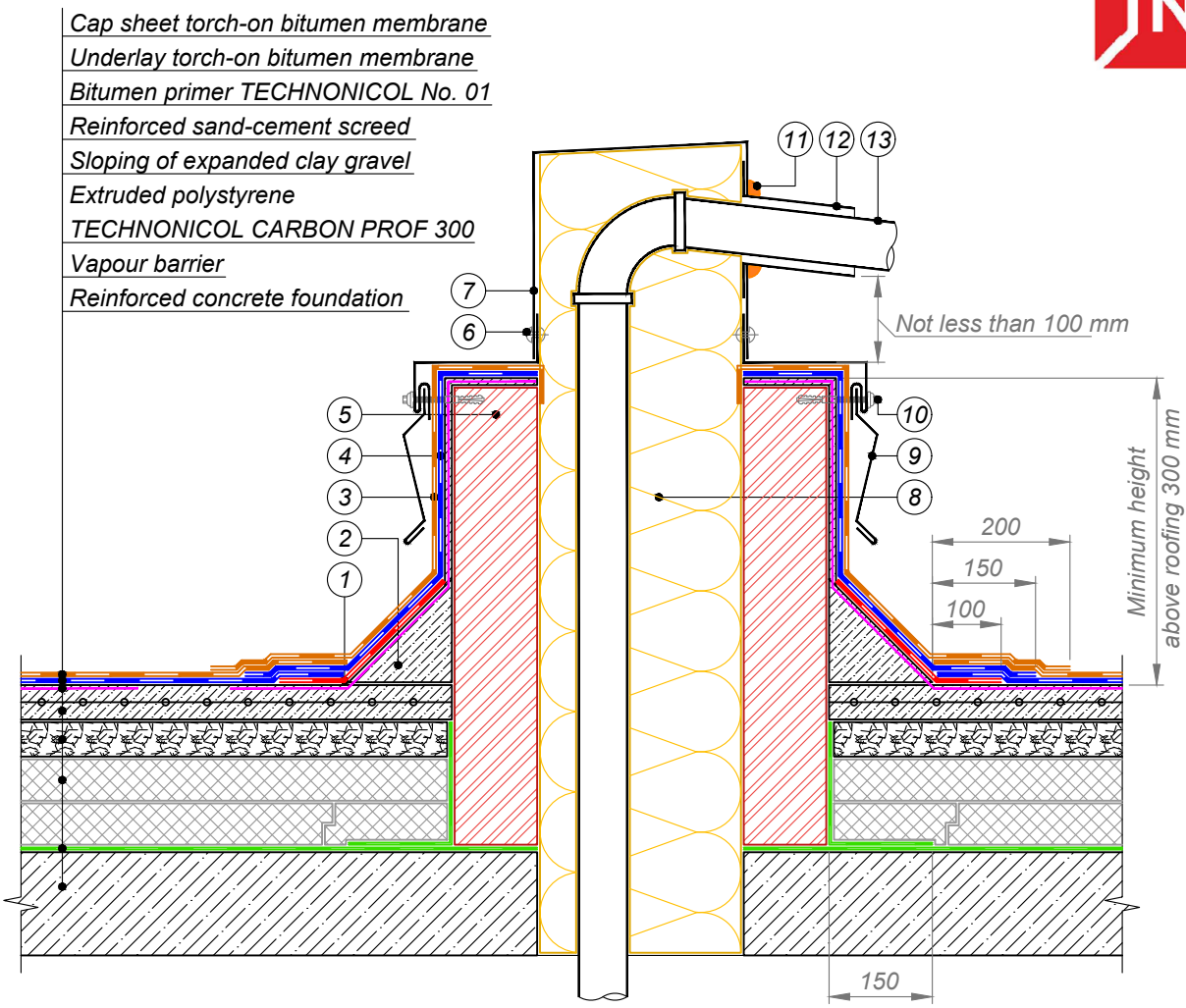


1. Additional layer of waterproofing membrane - Underlay bitumen membrane
2. Transitional upstand of lightweight concrete
3. Top layer of waterproofing system at junction - Cap sheet bitumen membrane
4. Bottom layer of waterproofing system at junction - Underlay bitumen membrane
5. Stone wool thermal insulation
6. Galvanized steel profile to be fastened by rivets
7. Metal cover
8. Fill with stone wool thermal insulation
9. CBPB or ACB
10. Galvanized steel sheet not less than 3 mm in thickness
11. Removable metal flashing
12. Fasten by roofing self-tapping screws with EPDM gasket at intervals not more than 450 mm
13. Fasten with combined rivets
14. Sealant *
15. Metal or rubber clamp
16. Tip chute

NOTES

* Polyurethane sealant to be applied at temperatures up to 80°C.
At high temperatures use specialized high-temperature sealants

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO HOT PIPES BUNDLE. VARIANT 1	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

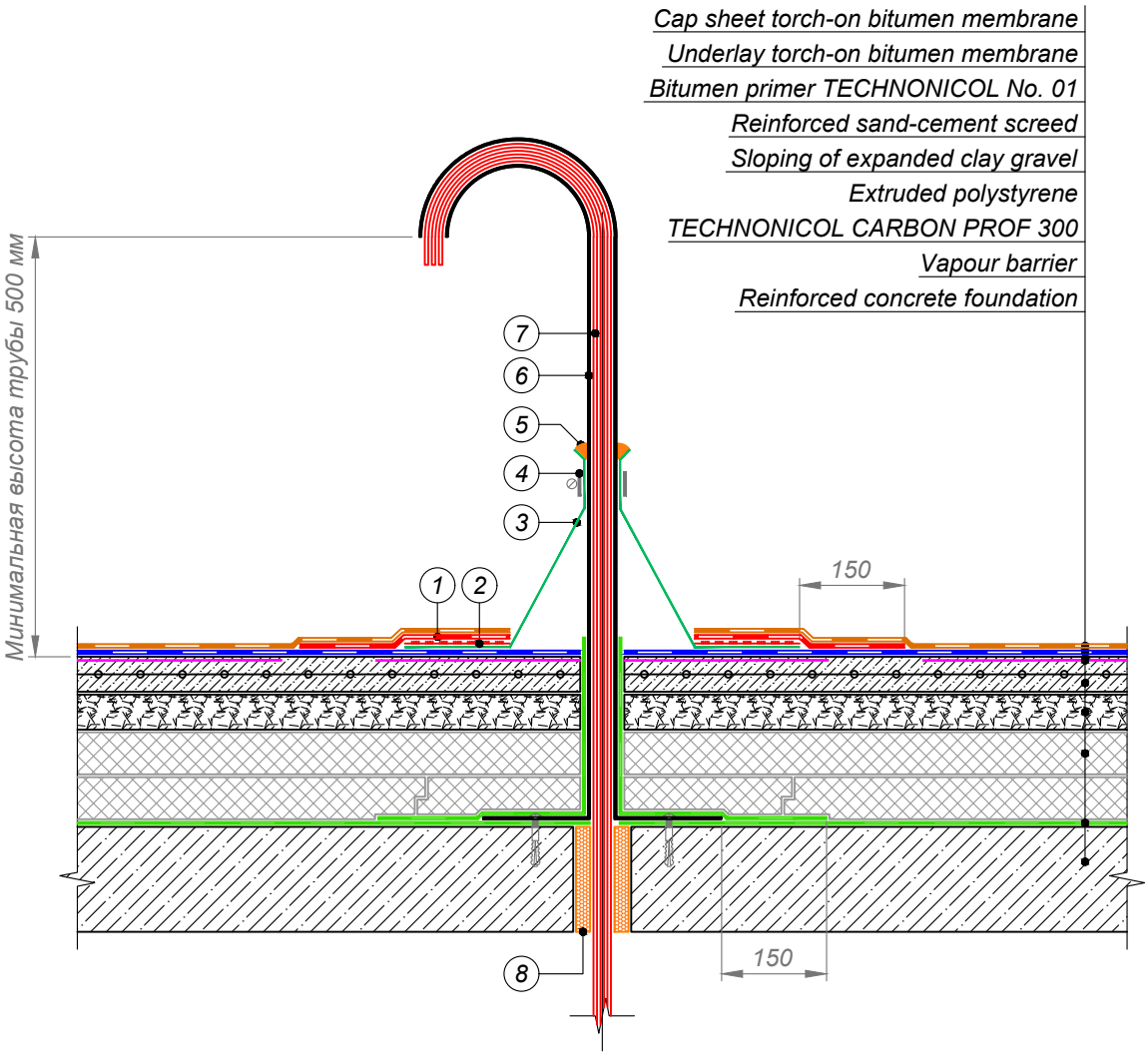


1. *Additional layer of waterproofing membrane - Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Top layer of waterproofing system at junction - Cap sheet bitumen membrane*
4. *Bottom layer of waterproofing system at junction -Underlay bitumen membrane*
5. *Brickwork plastered with cement-sand grout*
6. *Fasten with combined rivets*
7. *Metal cover*
8. *Fill with stone wool thermal insulation*
9. *Removable metal flashing*
10. *Fasten by roofing self-tapping screws with EPDM gasket at intervals not more than 450 mm*
11. *Sealant **
12. *Металлический или резиновый хомут*
13. *Tip chute*

NOTES

** Polyurethane sealant to be applied at temperatures up to 80°C. At high temperatures use specialized high-temperature sealants.*

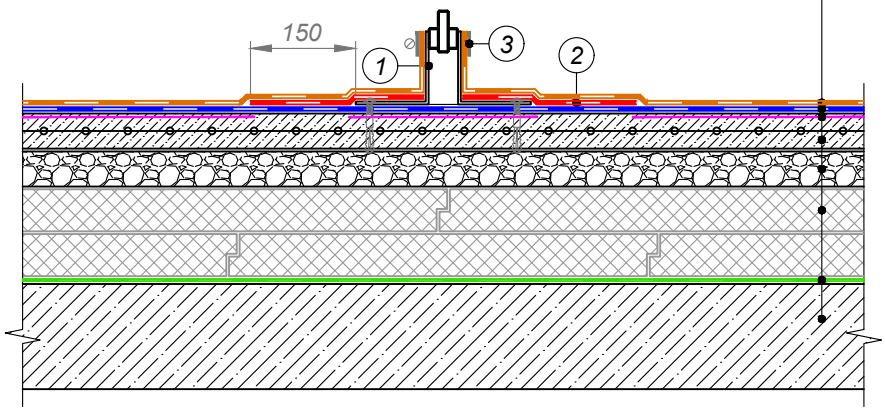
				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO HOT PIPES BUNDLE. VARIANT 2	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



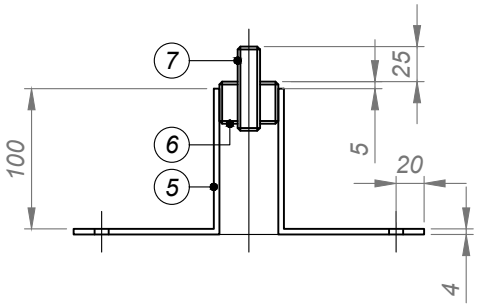
1. *Additional layer of waterproofing membrane - Underlay bitumen membrane*
2. *Hot roofing mastic*
3. *Pre-formed EPDM component*
4. *Compression metal clamp*
5. *Sealing mastic*
6. *Bent metal pipe with welded flange below*
7. *Electric cable*
8. *Sealing foam*

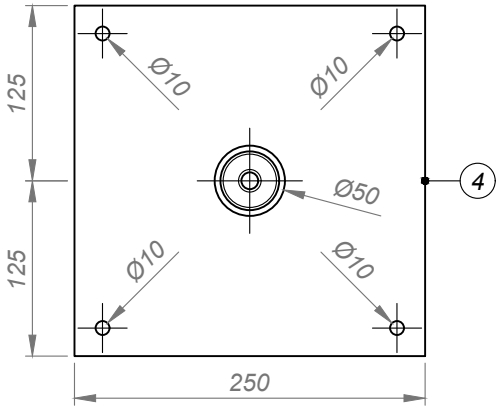
				EXPOSED FLAT ROOF	DESIGN	APPROVED
				JUNCTION TO ELECTRIC CABLE OUTLET	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



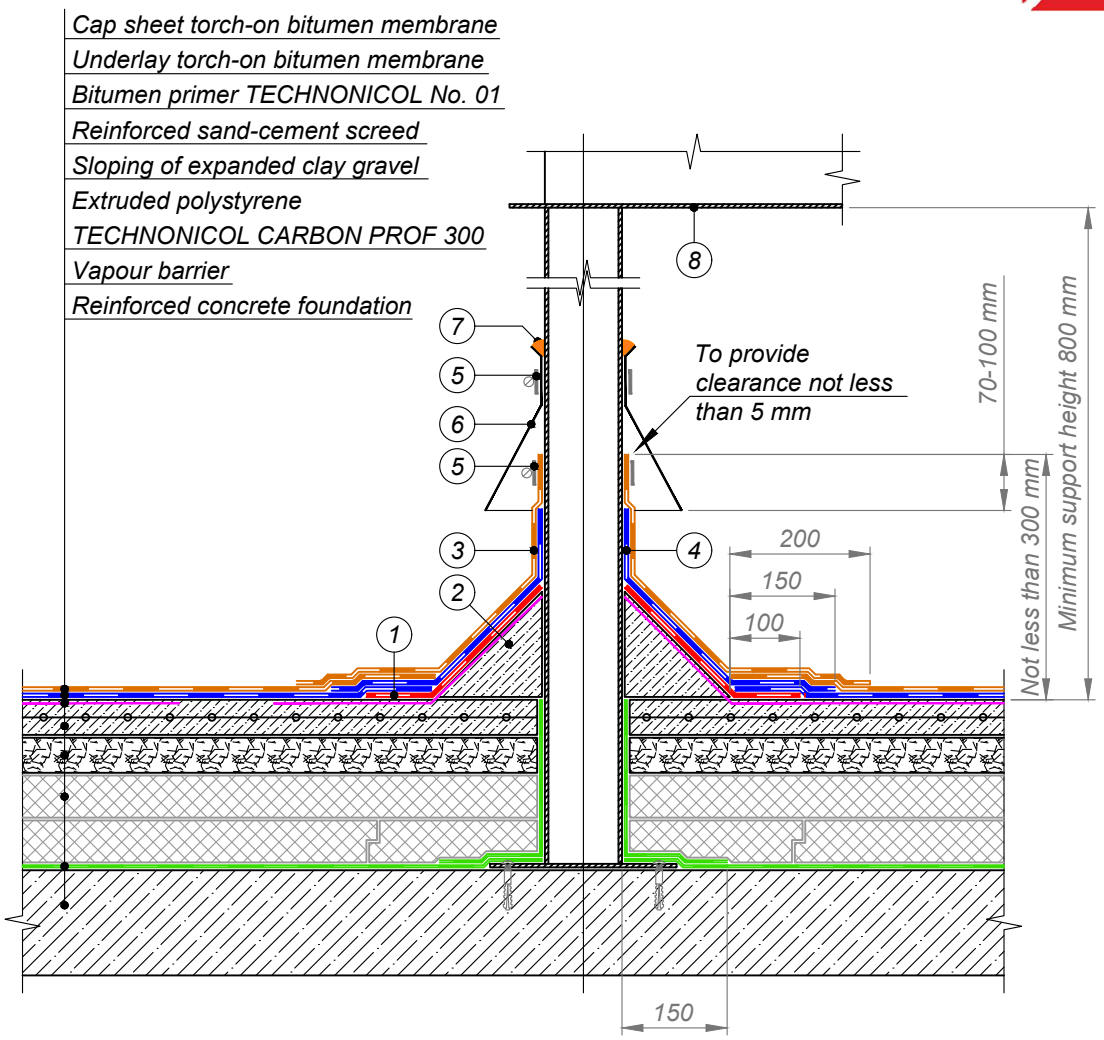
Embedded element for anchor, antenna bracing or equipment





1. Embedded element
2. Additional layer of waterproofing membrane - Underlay bitumen membrane
3. Steel plate
4. Compression metal clamp
5. Steel pipe 50 mm in diameter
6. Steel stud M16x70
7. Metal embedded element with external and internal thread

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				FASTENING OF EMBEDDED ELEMENT FOR ANCHOR, ANTENNA BRACING OR EQUIPMENT	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



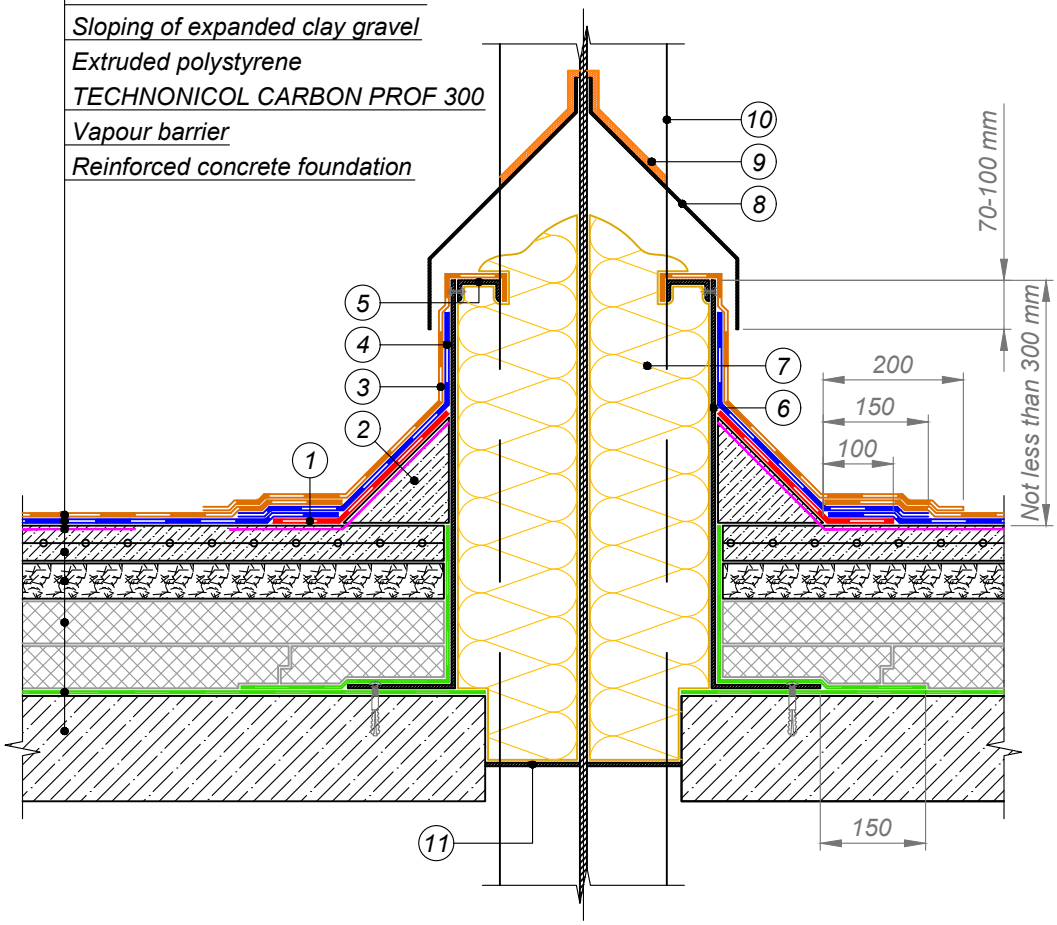
1. *Additional layer of waterproofing membrane - Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Top layer of waterproofing system at junction - Cap sheet bitumen membrane*
4. *Bottom layer of waterproofing system at junction - Underlay bitumen membrane*
5. *Compression metal clamp*
6. *Metal rain collar*
7. *Sealing mastic*
8. *Equipment support*

NOTES

Height of support above the roof surface should be not less than 800 mm to allow for possibility of roofing works and repairs.

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				SUPPORT FOR EQUIPMENT	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

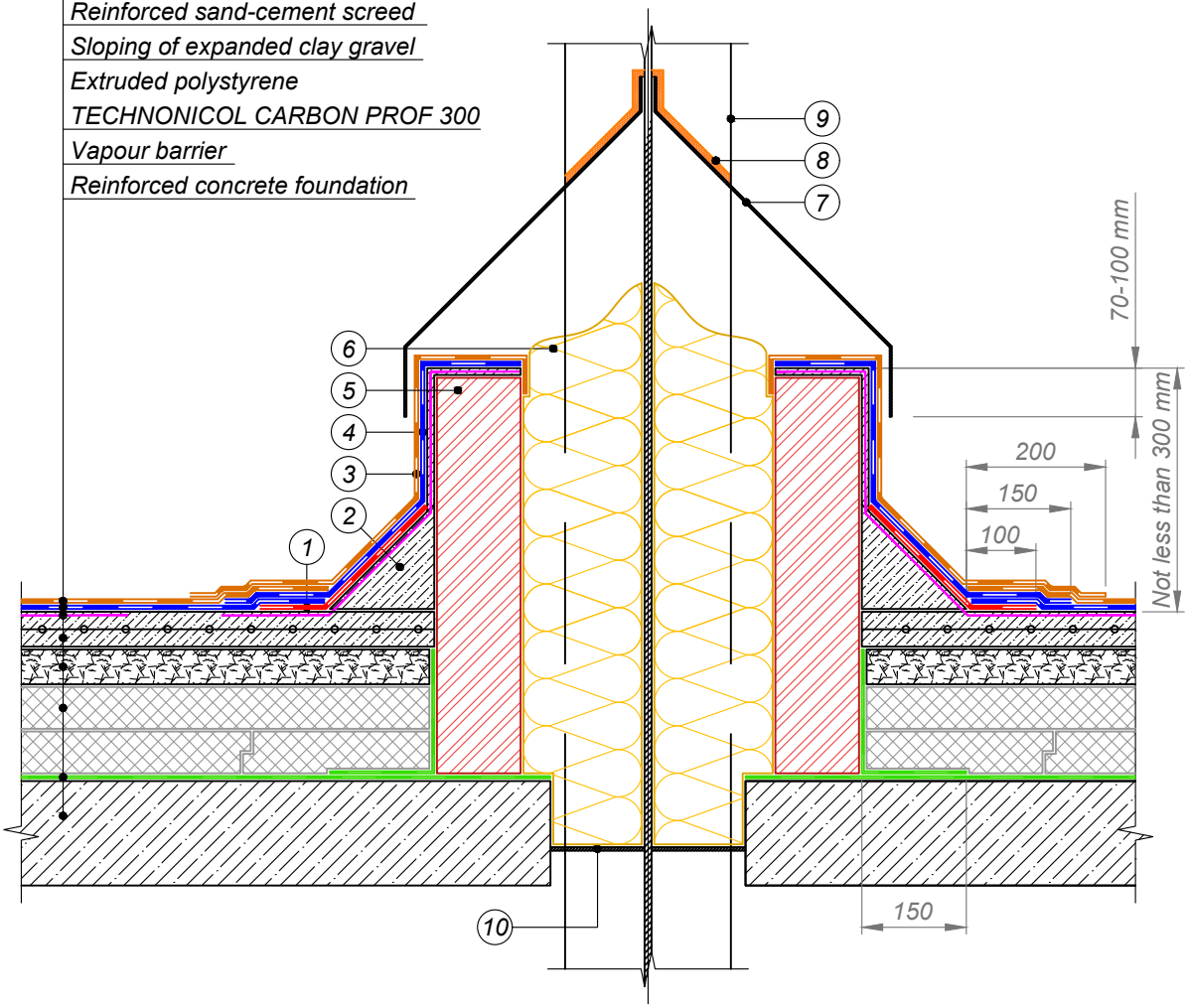
Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



1. Additional layer of waterproofing membrane - Underlay bitumen membrane
2. Transitional upstand of lightweight concrete
3. Top layer of waterproofing system at junction - Cap sheet bitumen membrane
4. Bottom layer of waterproofing system at junction - Underlay bitumen membrane
5. Galvanized steel profile to be fastened by rivets
6. Galvanized steel duct not less than 3 mm in thickness
7. Non-combustible thermal insulation
8. Metal flashing not less than 3 mm in thickness should overlap the duct by 70-100 mm
9. Weld flashing to the column and treat the joint with sealing mastic
10. Rolled metal column
11. Weld the metal plate and apply sealant around the perimeter

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				ROLLED METAL COLUMN PASSING THROUGH THE ROOF. VARIANT 1	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

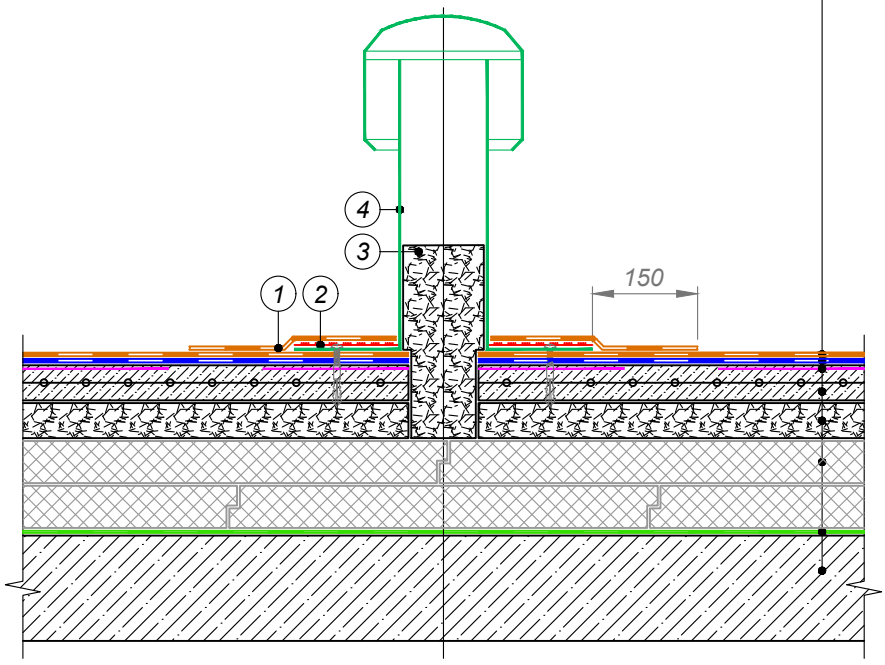
Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



1. *Additional layer of waterproofing membrane - Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Top layer of waterproofing system at junction - Cap sheet bitumen membrane*
4. *Bottom layer of waterproofing system at junction - Underlay bitumen membrane*
5. *Brickwork plastered with cement-sand grout*
6. *Stone wool thermal insulation not less than 120 mm in thickness*
7. *Metal flashing not less than 3 mm in thickness should overlap the duct by 70-100 mm*
8. *Weld flashing to the column and treat the joint with sealing mastic*
9. *Rolled metal column*
10. *Weld the metal plate and apply sealant around the perimeter*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				ROLLED METAL COLUMN PASSING THROUGH THE ROOF. VARIANT 2	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

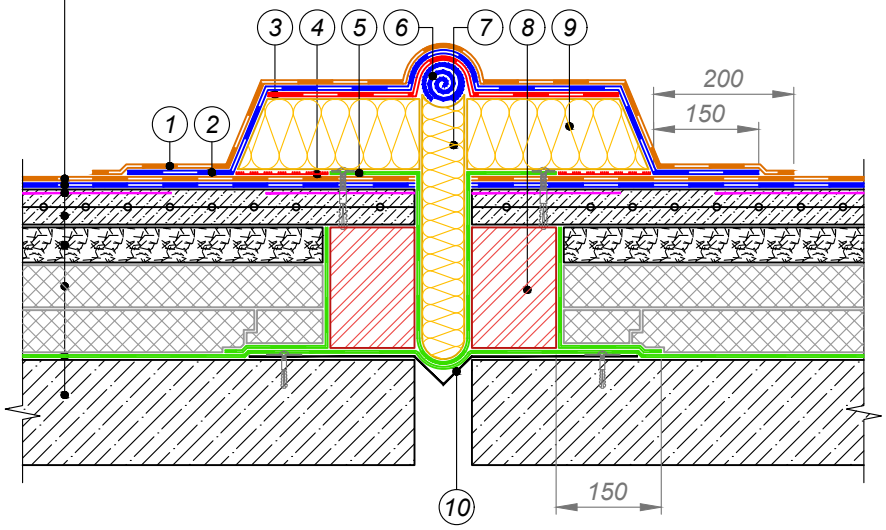
Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



1. *Additional layer of waterproofing membrane - Cap sheet bitumen membrane*
2. *Hot roofing mastic*
3. *Expanded clay gravel*
4. *Roof aerator*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				ROOF AERATOR	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

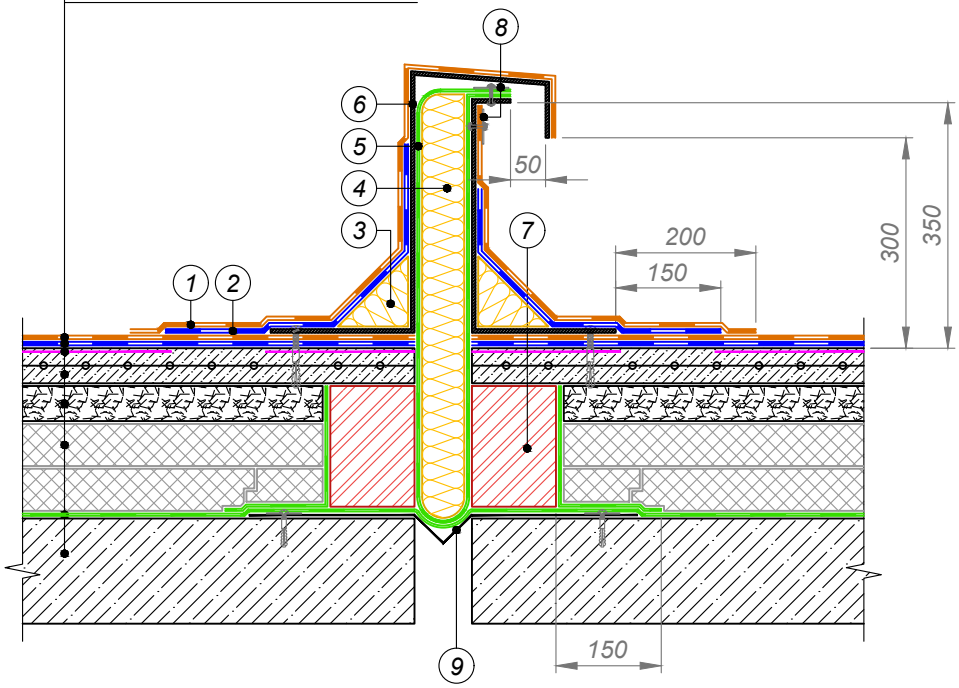
Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bituminous primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



1. *Cap sheet torch-on bitumen membrane*
2. *Underlay torch-on bitumen membrane*
3. *Additional layer of waterproofing membrane - Underlay bitumen membrane*
4. *Stone wool thermal insulation to be glued with hot roofing mastic*
5. *Vapour barrier for fixation of insulation*
6. *Roofing material in a roll Ø 50-70 mm*
7. *Compressible thermal insulation*
8. *Brickwork*
9. *Stone wool thermal insulation 100 mm in thickness*
10. *Metal compensator*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				EXPANSION JOINT VARIANT 1	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

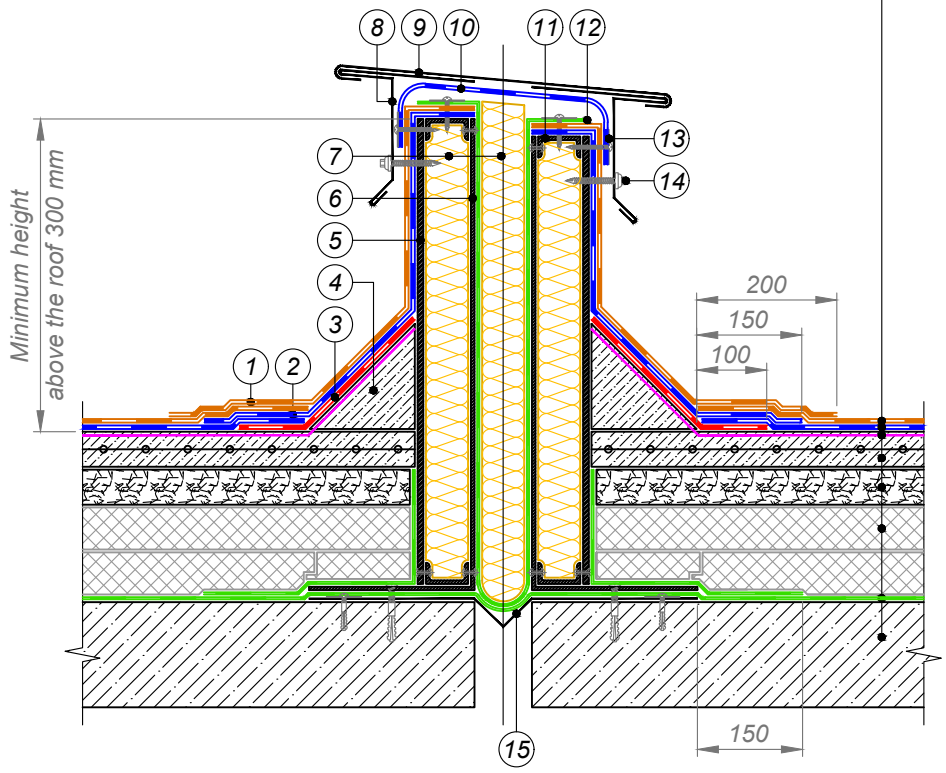
Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



1. *Top layer of waterproofing system at junction - Cap sheet bitumen membrane*
2. *Bottom layer of waterproofing system at junction - Underlay bitumen membrane*
3. *Roofing fillet 100x100 mm*
4. *Compressible thermal insulation*
5. *Vapour barrier for fixation of insulation*
6. *Galvanized steel profile not less than 3 mm in thickness*
7. *Brickwork*
8. *Fasten by rivets through washer Ø 100 mm*
9. *Metal compensator*

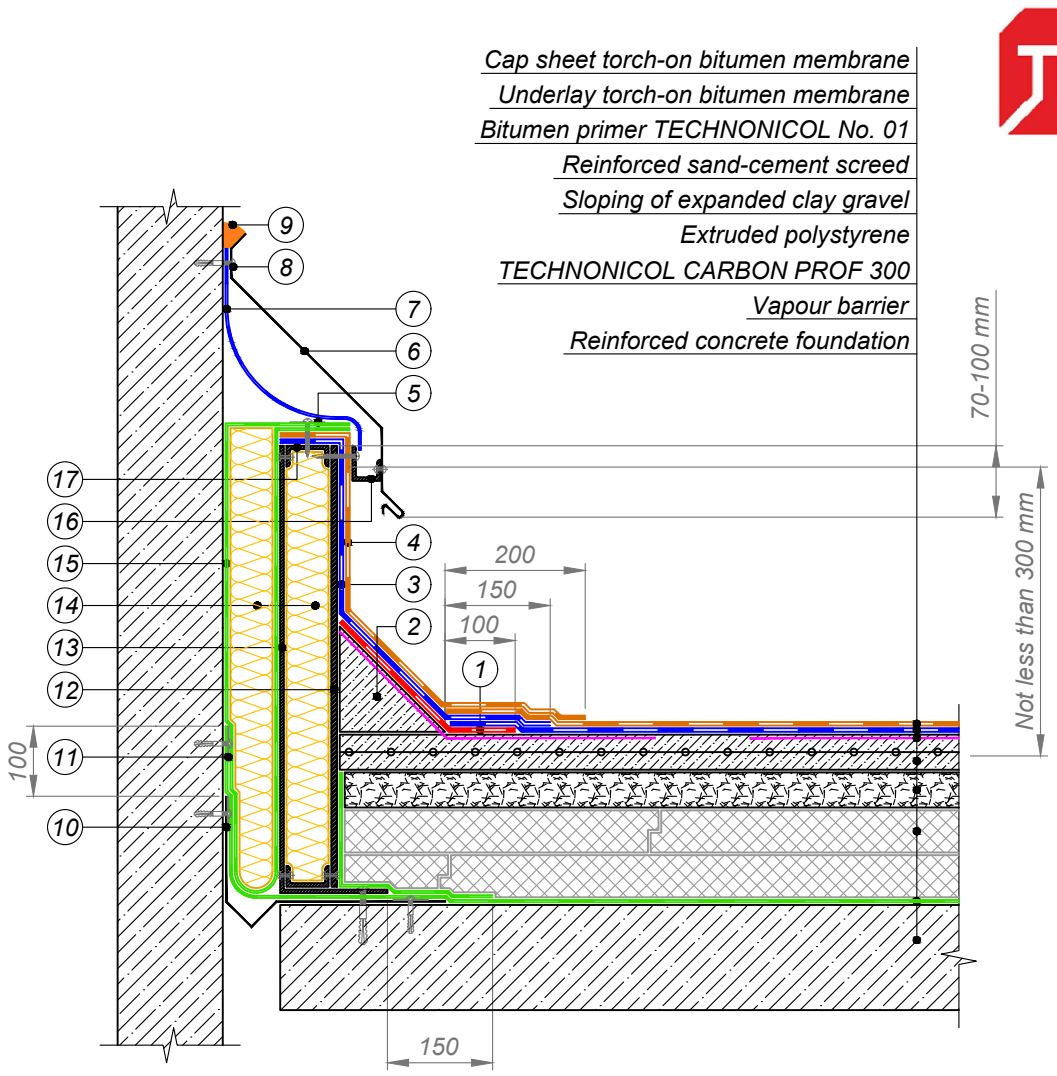
				EXPOSED FLAT ROOF	DESIGN	APPROVED
				EXPANSION JOINT VARIANT 2	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.

Cap sheet torch-on bitumen membrane
Underlay torch-on bitumen membrane
Bitumen primer TECHNONICOL No. 01
Reinforced sand-cement screed
Sloping of expanded clay gravel
Extruded polystyrene
TECHNONICOL CARBON PROF 300
Vapour barrier
Reinforced concrete foundation



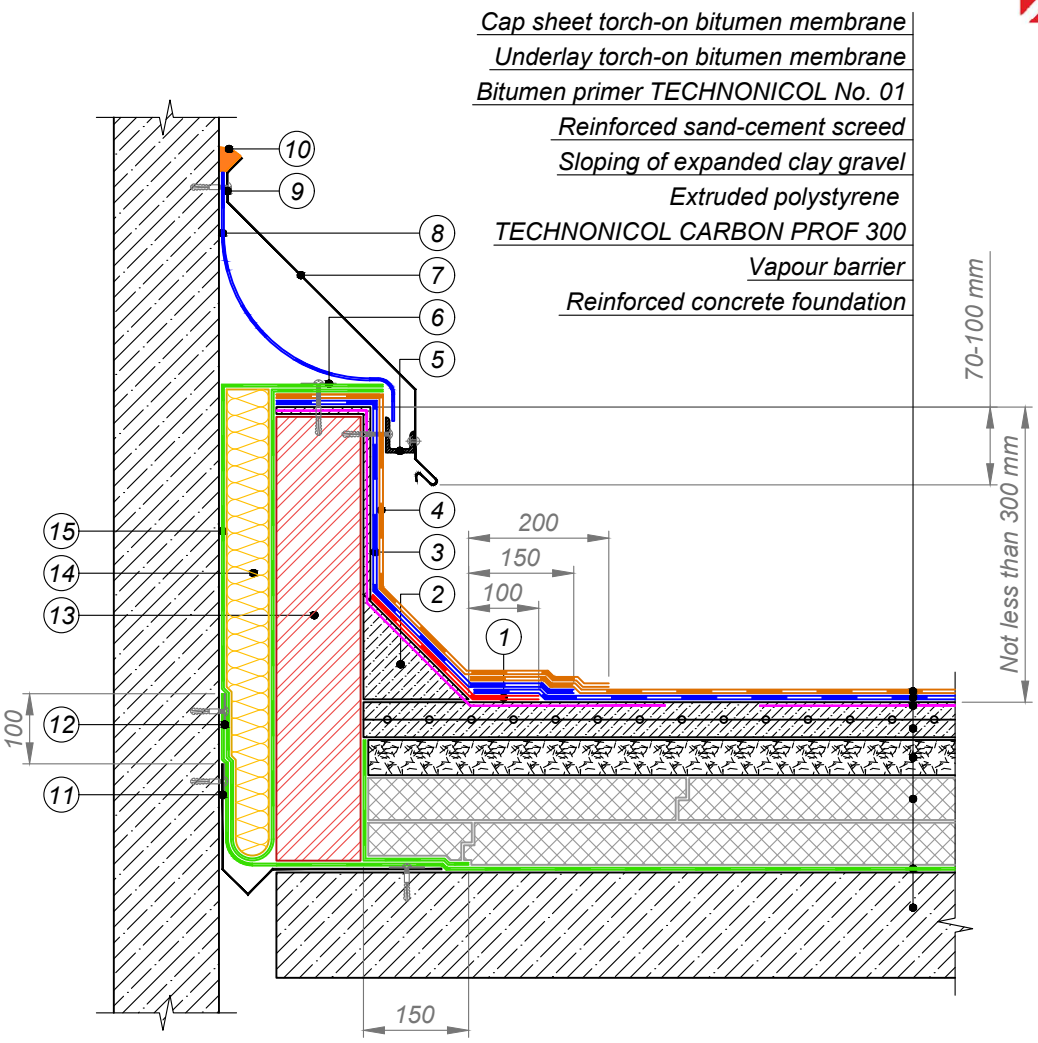
1. Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane
2. Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane
3. Strengthening layer - Underlay bitumen membrane
4. Transitional upstand of lightweight concrete
5. CBPB or ACB
6. Galvanized steel profile not less than 3 mm in thickness
7. Stone wool thermal insulation
8. Fastening element
9. Coating of galvanized sheet
10. Roofing material flashing
11. Galvanized steel profile to be fastened by rivets
12. Vapour barrier for fixation of insulation
13. Fasten by self-tapping screws with washer Ø 50 mm at 250 mm intervals
14. Fasten by roofing self-tapping screws with EPDM gasket
15. Metal compensator

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				DEFORMATION SEPARATOR	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



1. *Strengthening layer - Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane*
4. *Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane*
5. *Vapour barrier to be fastened by self-tapping screws with washer Ø 50 mm at 500 mm intervals*
6. *Galvanized steel flashing*
7. *Roofing material flashing*
8. *Fasten by self-tapping screws at 200 mm intervals*
9. *Sealing mastic*
10. *Galvanized steel compensator to be mechanically fastened with flashing*
11. *Material to be built-up on vertical surface and mechanically fastened by self-tapping screws with washer Ø 50 mm*
12. *CBPB or ACB*
13. *Galvanized steel profile not less than 3 mm in thickness*
14. *Stone wool thermal insulation*
15. *Vapour barrier for fixation of insulation*
16. *Galvanized steel compensator to be mechanically fastened with flashing*
17. *Galvanized steel profile to be fastened by rivets*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				EXPANSION JOINT AT JUNCTION TO WALL. VARIANT 1	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



1. *Strengthening layer - Underlay bitumen membrane*
2. *Transitional upstand of lightweight concrete*
3. *Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane*
4. *Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane*
5. *Galvanized steel compensator to be mechanically fastened with flashing*
6. *Vapour insulation to be fastened by self-tapping screws with washer Ø 50 mm at 500 mm intervals*
7. *Galvanized steel flashing*
8. *Roofing material flashing*
9. *Fasten by self-tapping screws at 200 mm intervals*
10. *Sealing mastic*
11. *Galvanized steel compensator to be mechanically fastened with flashing*
12. *Material to be built-up on vertical surface and mechanically fastened by self-tapping screws with washer Ø 50 mm*
13. *Brickwork plastered with cement-sand grout*
14. *Stone wool thermal insulation*
15. *Vapour barrier material for fixation of insulation*

				EXPOSED FLAT ROOF	DESIGN	APPROVED
				EXPANSION JOINT AT JUNCTION TO WALL. VARIANT 2	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.