

# **TECHNONICOL**

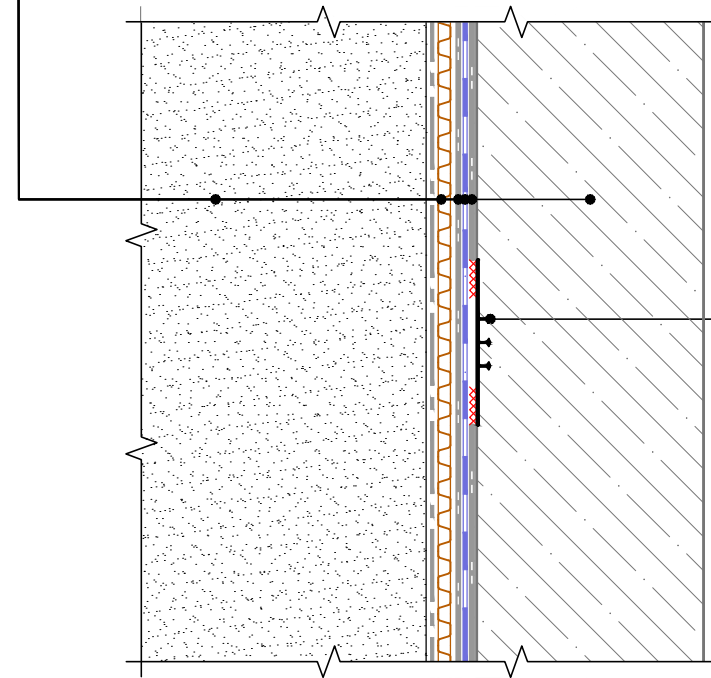


## **TECHNICAL SOLUTIONS FOR ARRANGEMENT OF FOUNDATION REPAIRABLE WATERPROOFING SYSTEM BASED ON PVC MEMBRANE WITH REPAIR INJECTION SYSTEM**

**TN\_FOUNDATION\_PVC\_PROTECT\_PROF**

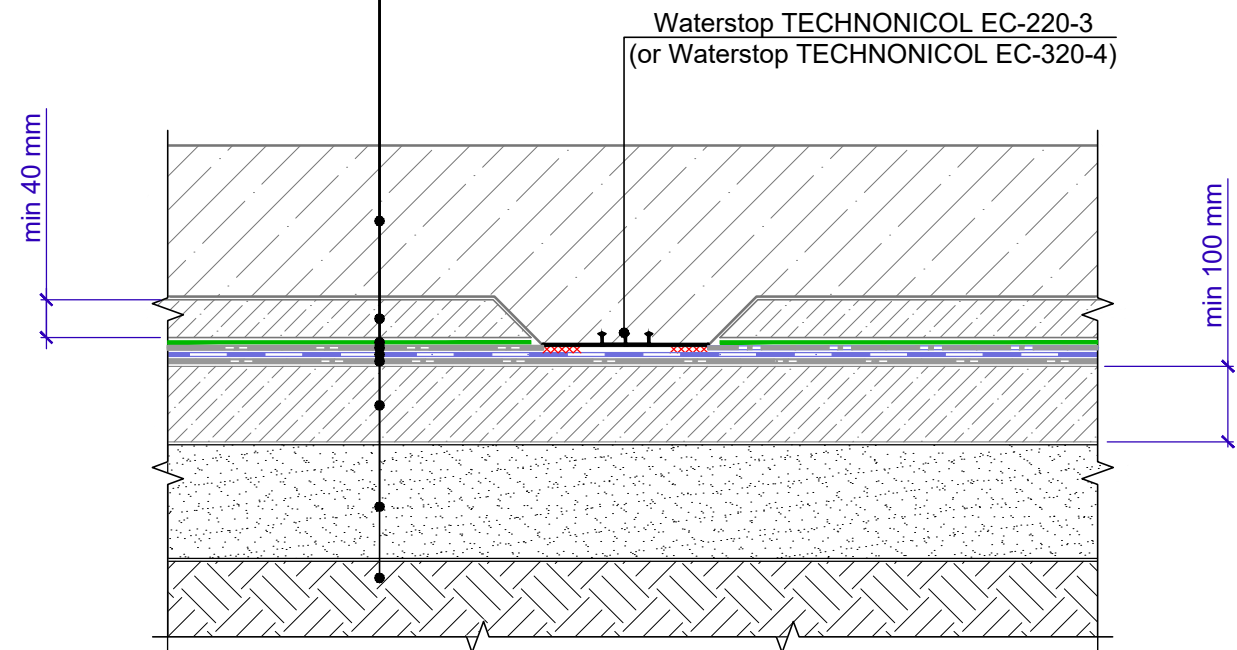


Backfill soil  
 Dimpled membrane PLANTER geo  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 LOGICBASE V-SL PVC membrane  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 Foundation wall



Waterstop TECHNOMICOL EC-220-3  
 (or Waterstop TECHNOMICOL EC-320-4)

Foundation slab  
 Protective sand-cement screed  
 Polyethylene film  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 LOGICBASE V-SL PVC membrane  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 Concrete substructure - 100 mm  
 Compacted sand  
 Subgrade soil

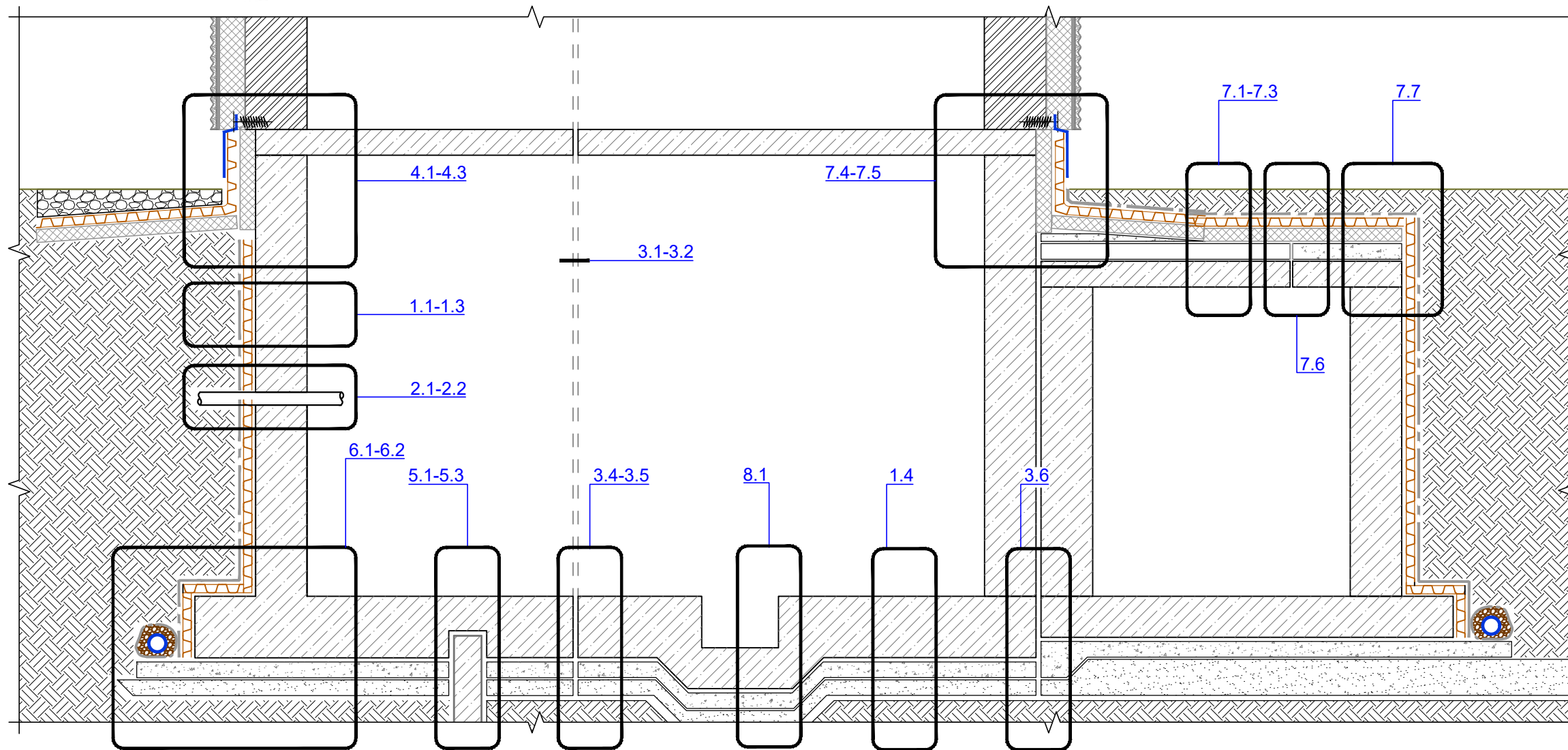


Waterstop TECHNOMICOL EC-220-3  
 (or Waterstop TECHNOMICOL EC-320-4)

min 40 mm

min 100 mm

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Structure of foundation solutions	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 01 - 2021.07	REV.

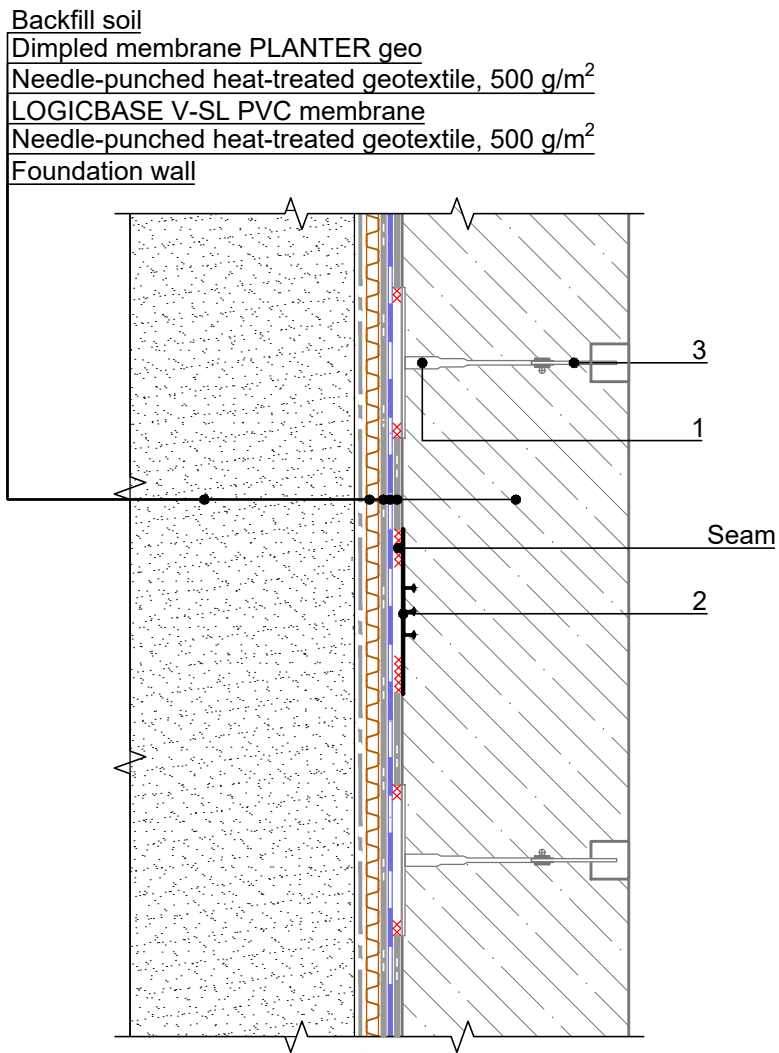


				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Scheme of labelling of system details	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 01 - 2021.07	REV.



## Register of drawings of fastening of protective layers on vertical

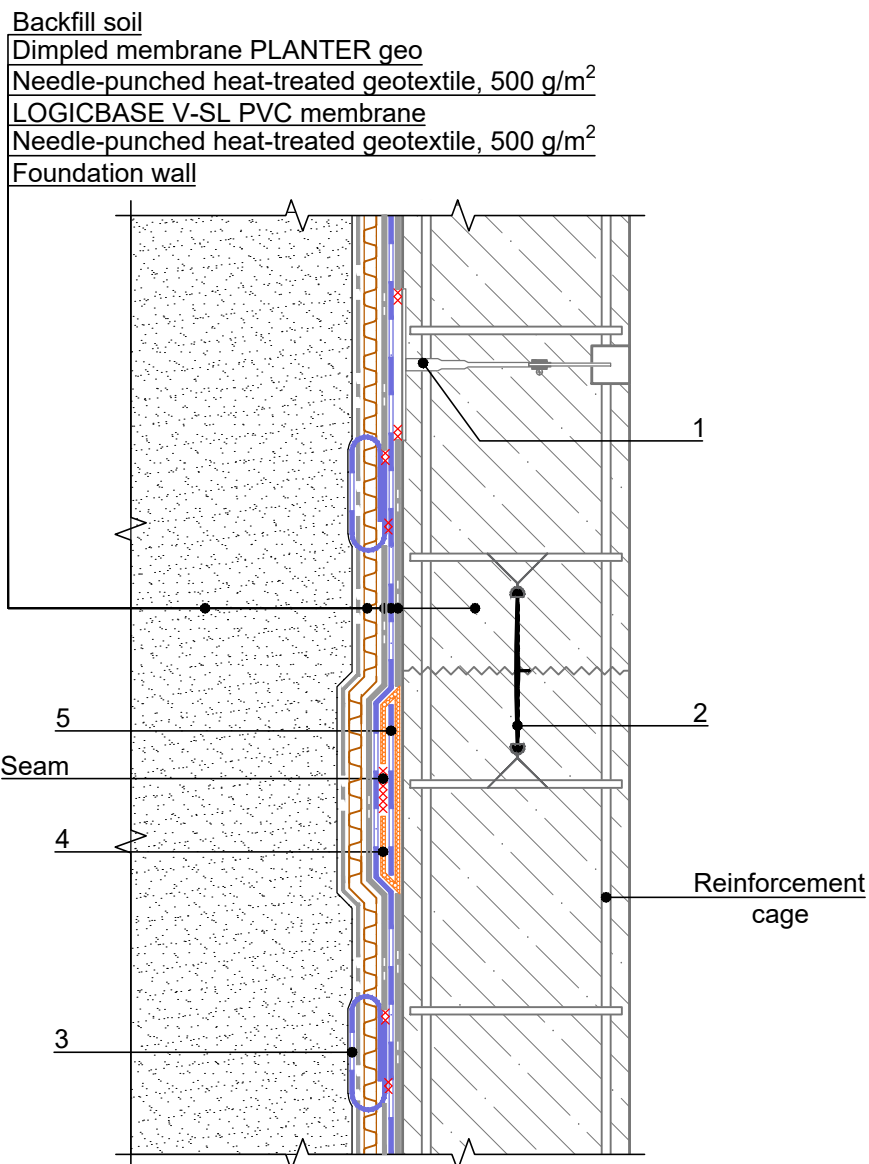
№	Name	DWG No.
1.1	Insulation system composition. Vertical part. Basic layers	1.1
1.2	Insulation system composition. Vertical part. Mechanical fastening of protective membrane	1.2
1.3	Insulation system composition. Vertical part. Fastening of protective membrane and waterproofing	1.3
1.4	Insulation system composition. Horizontal part.	1.4



**Specification of detail DWG No. 1.1 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	1.05	m	
3	Injection pipe	upon the project	m	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Waterproofing system composition. Vertical part. Basic layers	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 1.1 - 2021.07	REV.

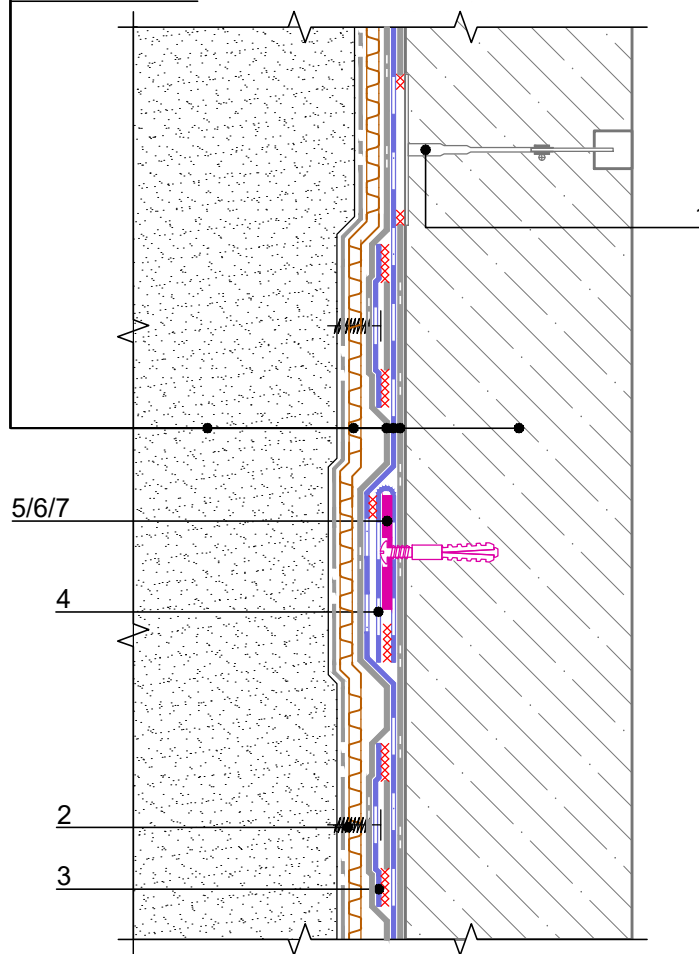


**Specification of detail DWG No. 1.2 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNOMICOL IC-240-2 (or Waterstop TECHNOMICOL IC-240-6)	1.05	m	
3	LOGICBASE V-SL PVC membrane, 50x300 mm	upon the project	m <sup>2</sup>	
4	TECHNOMICOL two-component epoxy adhesive	upon the project	kg.	
5	PVC strip 300x50mm made of LOGICBASE V-SL membrane	upon the project	m	
			DESIGN	APPROVED
			SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	
TN_FOUNDATION_PVC_PROTECT_PROF  Waterproofing system composition. Vertical part. Mechanical fastening of protective membrane				DWG No. 1.2 - 2021.07
				REV.



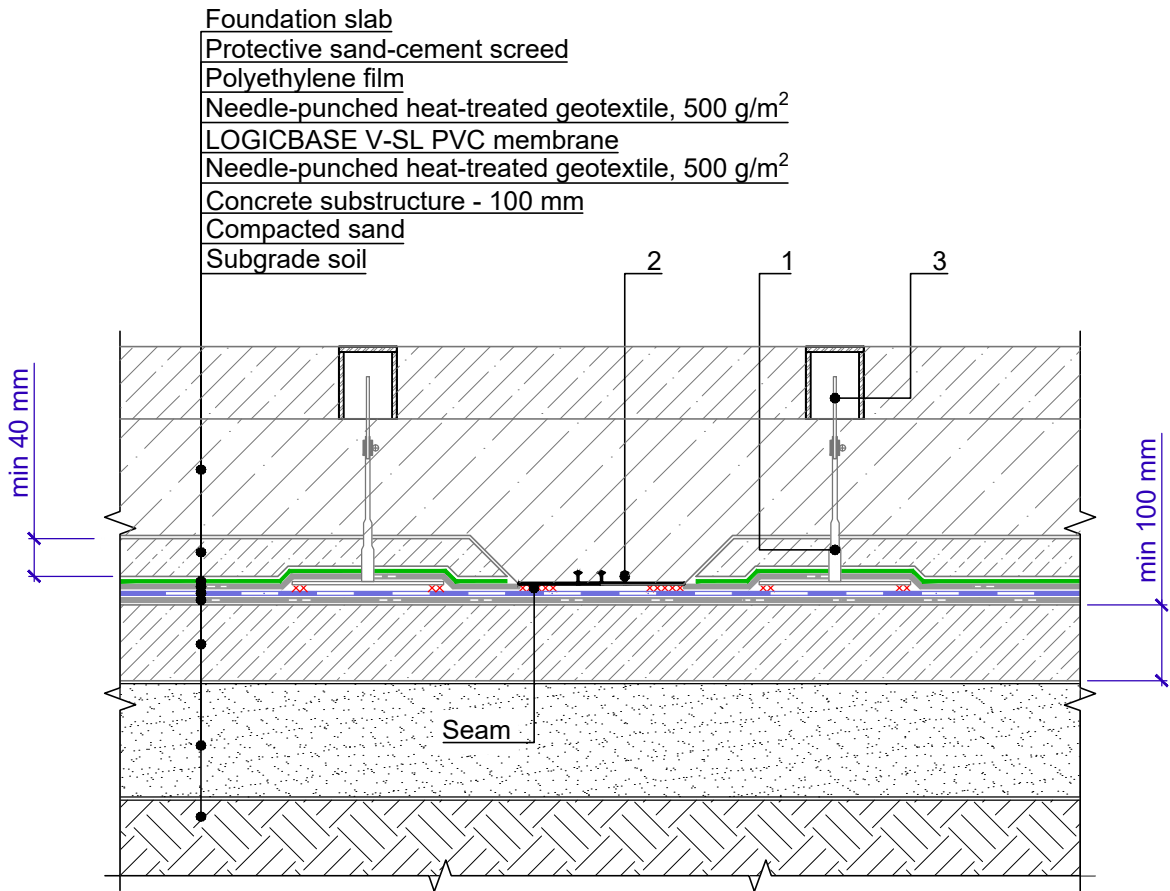
Backfill soil  
 Dimpled membrane PLANTER geo  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 LOGICBASE V-SL PVC membrane  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 Foundation wall



**Specification of detail DWG No. 1.3 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	PLANTER Fixing	upon the project	pcs.	
3	LOGICBASE V-SL PVC membrane, 50x300 mm	upon the project	m <sup>2</sup>	
4	LOGICBASE V-SL PVC membrane, 50x300 mm	upon the project	m <sup>2</sup>	
5	Plate-shaped holder	upon the project	pcs.	
6	Anchor element 8x45	upon the project	pcs.	
7	Pointed self-tapping screw 4.8x50	upon the project	pcs.	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Waterproofing system composition. Vertical part. Fastening of protective membrane and waterproofing	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 1.3 - 2021.07	REV.



**Specification of detail DWG No. 1.4 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNONICOL EC-220-3 (or Waterstop TECHNONICOL EC-320-4)	1.05	m	
3	Injection pipe	upon the project	m	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Waterproofing system composition. Horizontal part.	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 1.4 - 2021.07	REV.



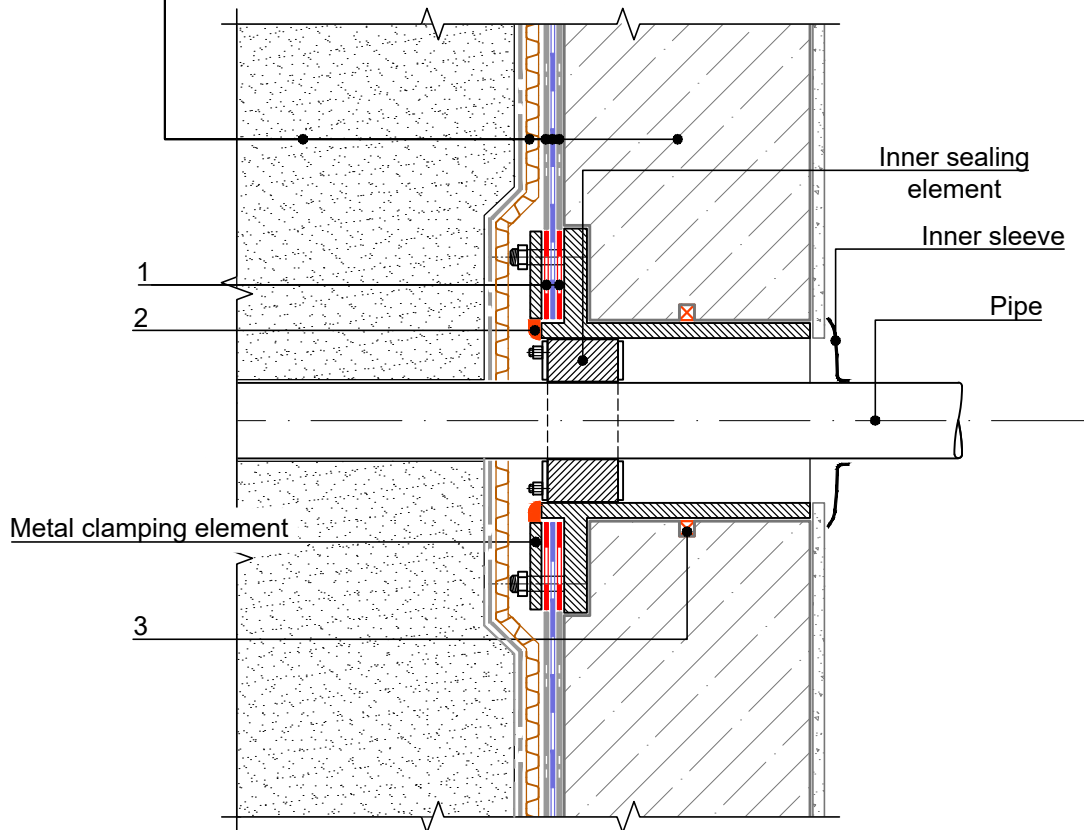


## Register of drawings of junctions to pipe penetrations

№	Name	DWG No.
2.1	Arrangement of pipe penetrations using special prefabricated lead-ins	2.1
2.2	Arrangement of pipe penetrations	2.2



Backfill soil  
 Dimpled membrane PLANTER geo  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 LOGICBASE V-SL PVC membrane  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 Foundation wall



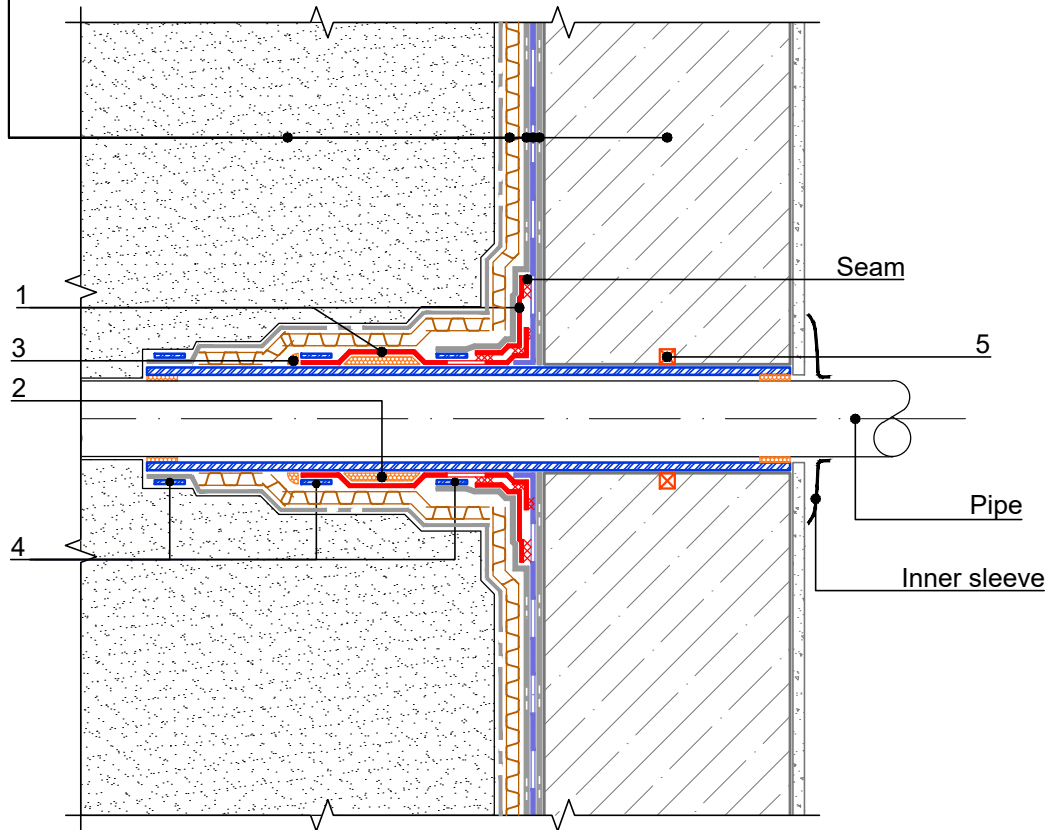
**Specification of detail DWG No. 2.1 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Pressure gasket made of LOGICBASE V-SL PVC membrane	upon the project	m <sup>2</sup>	
2	Polyurethane sealant	upon the project	l	
3	Swelling polymer profile	upon the project	m	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Arrangement of pipe penetrations using special prefabricated lead-ins	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 2.1 - 2021.07	REV.



Backfill soil  
 Dimpled membrane PLANTER geo  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 LOGICBASE V-SL PVC membrane  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 Foundation wall



**Specification of detail DWG No. 2.2 - 2021.07**

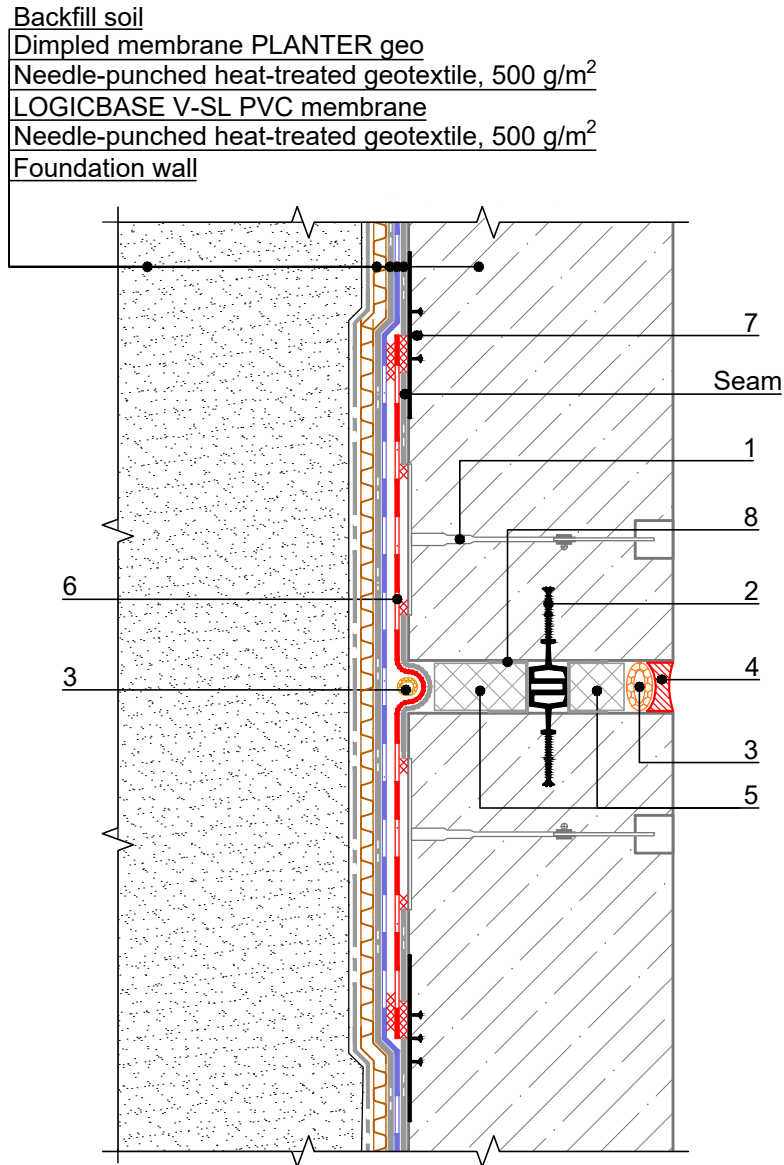
Position	Name	Consumption	Unit	Note
1	LOGICBASE V-SL PVC membrane membrane collar	upon the project	m <sup>2</sup>	
2	Swelling sealant	upon the project	l	
3	Polyurethane sealant	upon the project	l	
4	Metal clip band	3	pcs.	
5	Swelling polymer profile	upon the project	m	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Arrangement of pipe penetrations	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 2.2 - 2021.07	REV.



## Register of drawings for arrangement of junctions to expansion joints

№	Name	DWG No.
3.1	Vertical expansion joint. Option 1 (with internal waterstop)	3.1
3.2	Vertical expansion joint. Option 2 (with internal waterstop)	3.2
3.3	Horizontal expansion joint. Option 1 (with external waterstop)	3.3
3.4	Horizontal expansion joint. Option 2 (with external waterstop)	3.4
3.5	Horizontal expansion joint. Option 1 (with internal waterstop)	3.5
3.6	Horizontal expansion joint. Option 2 (with external waterstop)	3.6
3.7	Horizontal expansion joint with height difference	3.7

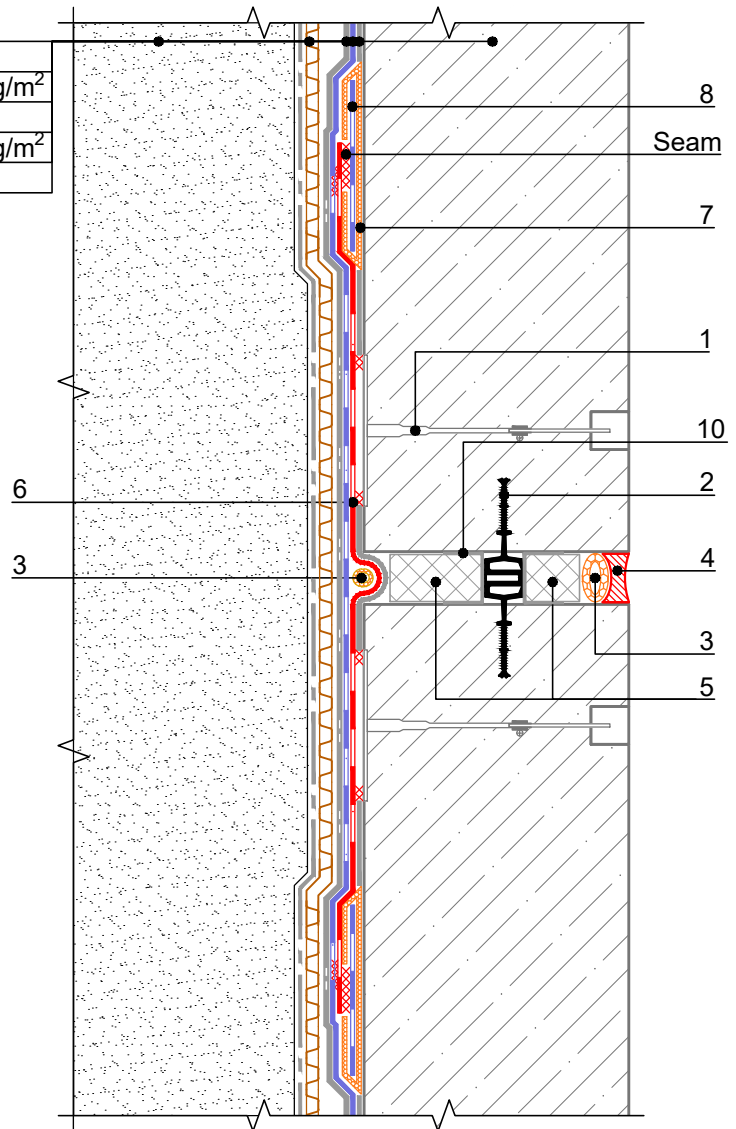


**Specification of detail DWG No. 3.1 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNOMICOL IM-240/20 (or Waterstop TECHNOMICOL IM-260/50)	1.05	m	
3	Filler made of foamed polyethylene	1.05	m	
4	Polyurethane sealant	upon the project	l	
5	XPS TECHNOMICOL CARBON PROF	upon the project	m <sup>3</sup>	
6	LOGICBASE V-SL PVC membrane	upon the project	m <sup>2</sup>	
7	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m	
8	Needle-punched heat-treated geotextile, 300 g/m <sup>2</sup> (or polyethylene film)	upon the project	m <sup>2</sup>	
			DESIGN	APPROVED
			SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	REV.
TN_FOUNDATION_PVC_PROTECT_PROF				DWG No. 3.1 - 2021.07
Vertical expansion joint. Option 1 (with internal waterstop)				



Backfill soil  
 Dimpled membrane PLANTER geo  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 LOGICBASE V-SL PVC membrane  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 Foundation wall

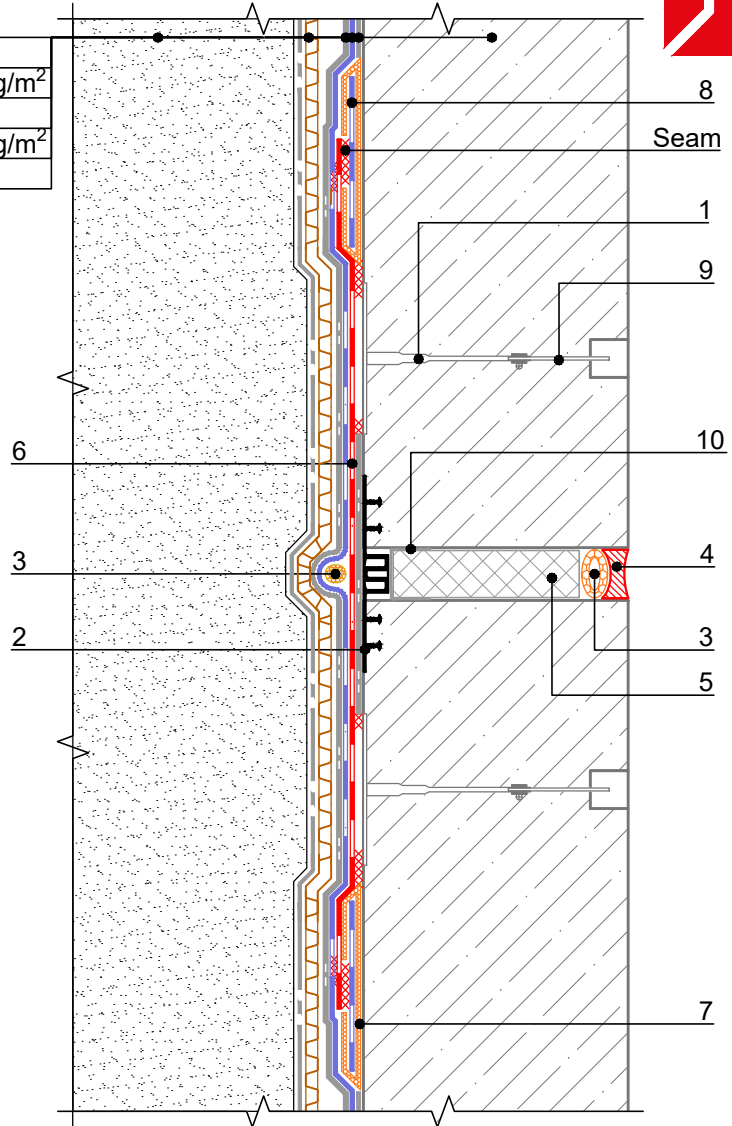


Specification of detail DWG No. 3.2 - 2021.07

Position	Name	Consumption	Unit	Note	
1	Injection flange	upon the project	pcs.		
2	Waterstop TECHNOMICOL IM-240/20 (or Waterstop TECHNOMICOL IM-260/50)	1.05	m		
3	Filler made of foamed polyethylene	1.05	m		
4	Polyurethane sealant	upon the project	l		
5	XPS TECHNOMICOL CARBON PROF	upon the project	m <sup>3</sup>		
6	LOGICBASE V-SL PVC membrane	upon the project	m <sup>2</sup>		
7	Two-component epoxy adhesive	upon the project	kg.		
8	LOGICBASE V-Strip FB 220 waterproofing tape, 300 mm	upon the project	m		
9	Injection pipe	upon the project	m		
10	Needle-punched heat-treated geotextile, 300 g/m <sup>2</sup> (or polyethylene film)	upon the project	m <sup>2</sup>		
		TN_FOUNDATION_PVC_PROTECT_PROF		DESIGN	APPROVED
		Vertical expansion joint. Option 2 (with internal waterstop)		SCALE	DATE
REV.	DATE			DESCRIPTION	CHECKED



- Backfill soil
- Dimpled membrane PLANTER geo
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- LOGICBASE V-SL PVC membrane
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- Foundation wall



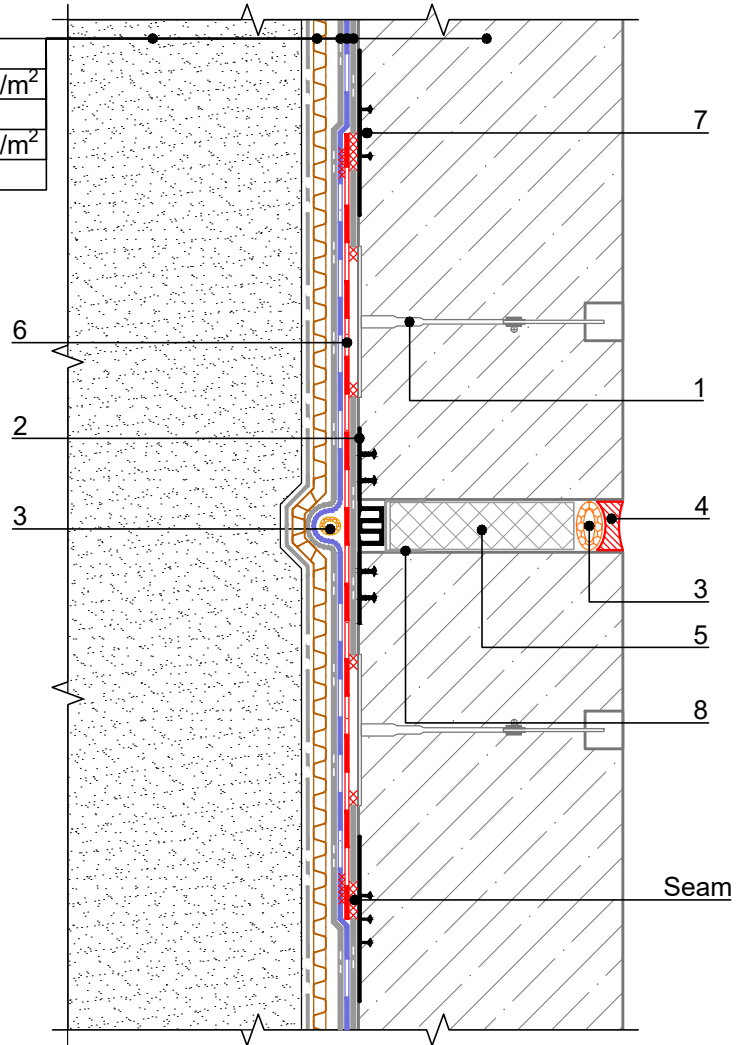
**Specification of detail DWG No. 3.3 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNONICOL EM-260/20 (or Waterstop TECHNONICOL EM-260/50)	1.05	m	
3	Filler made of foamed polyethylene	1.05	m	
4	Polyurethane sealant	upon the project	l	
5	XPS TECHNONICOL CARBON PROF	upon the project	m <sup>3</sup>	
6	LOGICBASE V-SL PVC membrane	upon the project	m <sup>2</sup>	
7	Two-component epoxy adhesive	upon the project	kg.	
8	LOGICBASE V-Strip FB 220 waterproofing tape, 300 mm	upon the project	m	
9	Injection pipe	upon the project	m	
10	Needle-punched heat-treated geotextile, 300 g/m <sup>2</sup> (or polyethylene film)	upon the project	m <sup>2</sup>	

				TN_FOUNDATION_PVC_PROTECT_PROF		DESIGN	APPROVED
				Vertical expansion joint. Option 1 (with external waterstop)		SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED			DWG No. 3.3 - 2021.07	REV.



- Backfill soil
- Dimpled membrane PLANTER geo
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- LOGICBASE V-SL PVC membrane
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- Foundation wall



**Specification of detail DWG No. 3.4 - 2021.07**

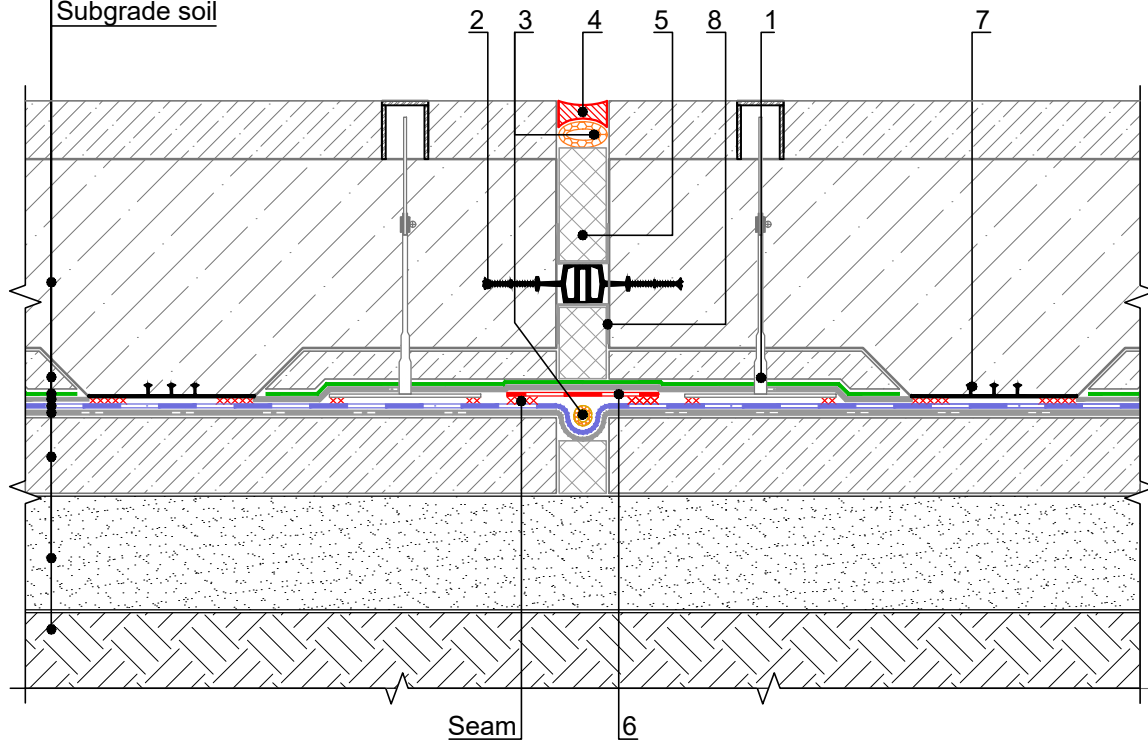
Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNOMICOL EM-260/20 (or Waterstop TECHNOMICOL EM-260/50)	1.05	m	
3	Filler made of foamed polyethylene	1.05	m	
4	Polyurethane sealant	upon the project	l	
5	XPS TECHNOMICOL CARBON PROF	upon the project	m <sup>3</sup>	
6	LOGICBASE V-SL PVC membrane	upon the project	m <sup>2</sup>	
7	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m	
8	Needle-punched heat-treated geotextile, 300 g/m <sup>2</sup> (or polyethylene film)	upon the project	m <sup>2</sup>	

				TN_FOUNDATION_PVC_PROTECT_PROF		DESIGN	APPROVED
				Vertical expansion joint. Option 2 (with external waterstop)		SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED			DWG No. 3.4 - 2021.07	REV.





- Foundation slab
- Protective sand-cement screed
- Polyethylene film
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- LOGICBASE V-SL PVC membrane
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- Concrete substructure - 100 mm
- Compacted sand
- Subgrade soil

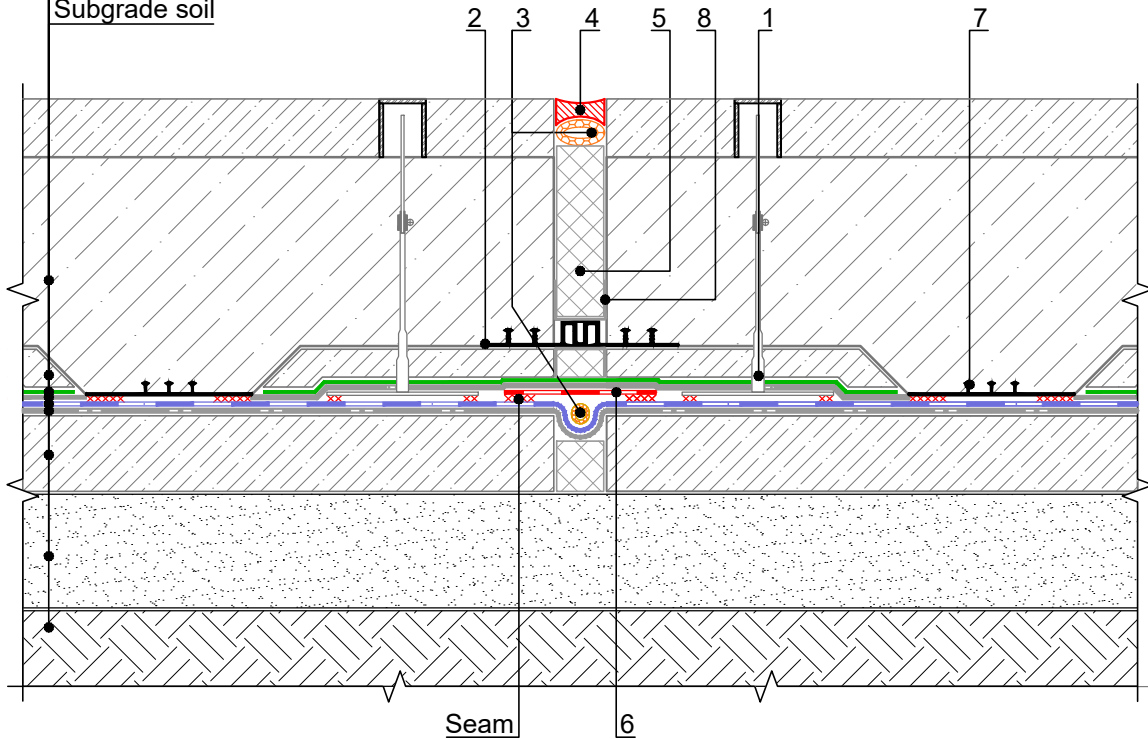


**Specification of detail DWG No. 3.5 - 2021.07**

Position	Name	Consumption	Unit	Note	
1	Injection flange	upon the project	pcs.		
2	Waterstop TECHNOMICOL IM-240/20 (or Waterstop TECHNOMICOL IM-260/50)	1.05	m		
3	Filler made of foamed polyethylene	1.05	m		
4	Polyurethane sealant	upon the project	l		
5	XPS TECHNOMICOL CARBON PROF	upon the project	m <sup>3</sup>		
6	LOGICBASE V-SL PVC membrane	upon the project	m <sup>2</sup>		
7	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m		
8	Needle-punched heat-treated geotextile, 300 g/m <sup>2</sup> (or polyethylene film)	upon the project	m <sup>2</sup>		
			DESIGN	APPROVED	
			SCALE	DATE	
REV.	DATE	DESCRIPTION	CHECKED	Horizontal expansion joint. Option 1 (with internal waterstop)	
			DWG No. 3.5 - 2021.07	REV.	



Foundation slab  
 Protective sand-cement screed  
 Polyethylene film  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 LOGICBASE V-SL PVC membrane  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 Concrete substructure - 100 mm  
 Compacted sand  
 Subgrade soil

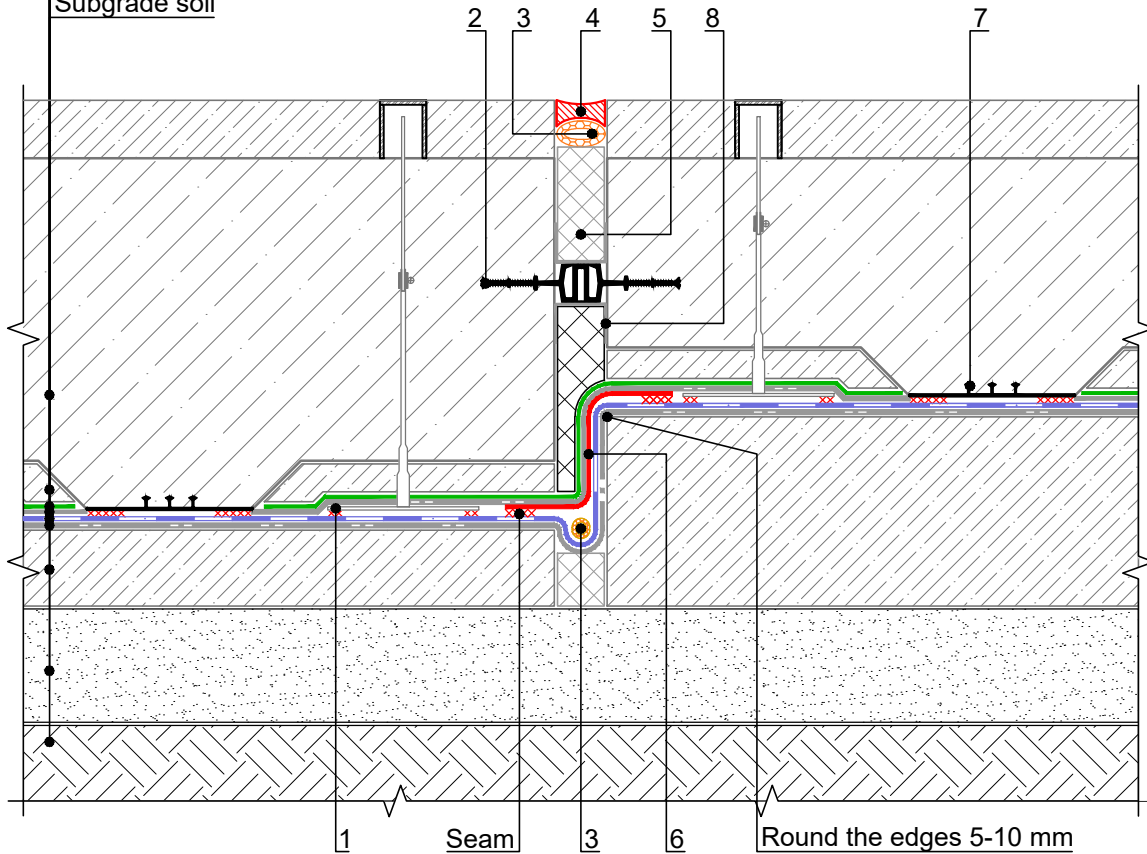


**Specification of detail DWG No. 3.6 - 2021.07**

Position	Name	Consumption	Unit	Note	
1	Injection flange	upon the project	pcs.		
2	Waterstop TECHNOMICOL EM-260/20 (or Waterstop TECHNOMICOL EM-260/50)	1.05	m		
3	Filler made of foamed polyethylene	1.05	m		
4	Polyurethane sealant	upon the project	l		
5	XPS TECHNOMICOL CARBON PROF	upon the project	m <sup>3</sup>		
6	LOGICBASE V-SL PVC membrane	upon the project	m <sup>2</sup>		
7	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m		
8	Needle-punched heat-treated geotextile, 300 g/m <sup>2</sup> (or polyethylene film)	upon the project	m <sup>2</sup>		
			DESIGN	APPROVED	
			SCALE	DATE	
REV.	DATE	DESCRIPTION	CHECKED	Horizontal expansion joint. Option 2 (with external waterstop)	
			DWG No. 3.6 - 2021.07	REV.	



Foundation slab  
 Protective sand-cement screed  
 Polyethylene film  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 LOGICBASE V-SL PVC membrane  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 Concrete substructure - 100 mm  
 Compacted sand  
 Subgrade soil

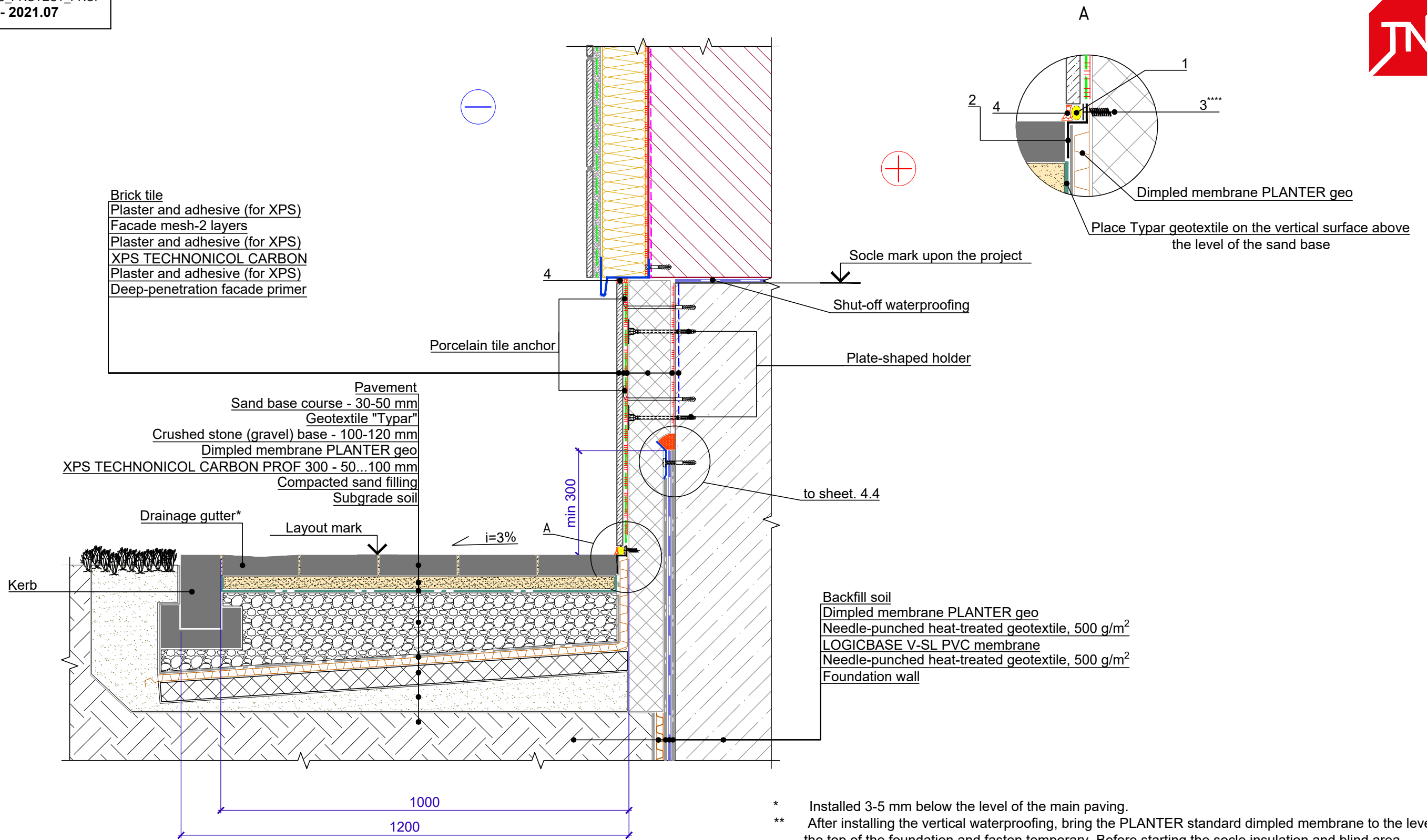


**Specification of detail DWG No. 3.7 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNOMICOL IM-240/20 (or Waterstop TECHNOMICOL IM-260/50)	1.05	m	
3	Filler made of foamed polyethylene	1.05	m	
4	Polyurethane sealant	upon the project	l	
5	XPS TECHNOMICOL CARBON PROF	upon the project	m <sup>3</sup>	
6	LOGICBASE V-SL PVC membrane	upon the project	m <sup>2</sup>	
7	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m	
8	Needle-punched heat-treated geotextile, 300 g/m <sup>2</sup> (or polyethylene film)	upon the project	m <sup>2</sup>	
			DESIGN	APPROVED
			SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	
			Horizontal expansion joint with height difference	
			DWG No. 3.7 - 2021.07	REV.

## Register of drawings for arrangement of junctions to socle

№	Name	DWG No.
4.1	Socle arrangement. Option 1. Finishing with tiles.	4.1
4.2	Socle arrangement. Option 1. Plaster finishing.	4.2
4.3	Socle arrangement. Option 1. Ventilated facade.	4.3
4.4	Termination of waterproofing on vertical surface	4.4

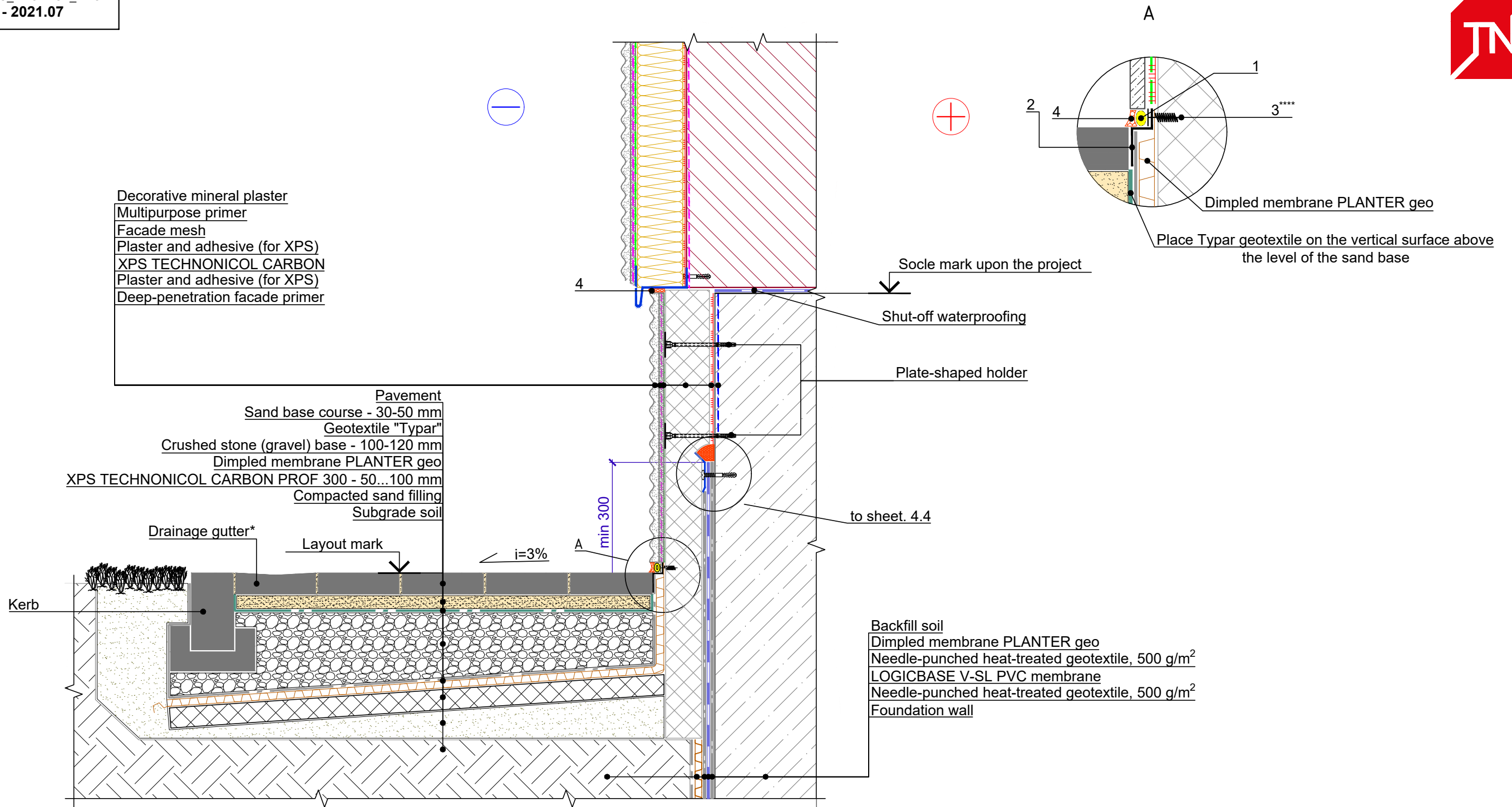


**Specification of detail DWG No. 4.1 - 2021.07**

Position	Name	Consumption on 1 l.m. of junction	Unit	Note
1	Filler made of foamed polyethylene	1.00	m	
2	PLANTER Profile strip	1.05	m	
3	Plastic facade/socle screw R16	5	pcs.	
4	Polyurethane sealant	upon the project	l	

- \* Installed 3-5 mm below the level of the main paving.
- \*\* After installing the vertical waterproofing, bring the PLANTER standard dimpled membrane to the level of the top of the foundation and fasten temporary. Before starting the socle insulation and blind area arrangement, cut the dimpled membrane off to the level of the bottom of the vertical insulation slab.
- \*\*\* The length of the fasteners is selected based on the thickness of the insulation and should be 15 mm less than the thickness of the insulation
- \*\*\*\* Place the PLANTER geo dimpled membrane on the vertical surface of the insulation above the layout mark and fix it with a PLANTER Profile strip so that the horizontal edge of the strip coincides with the layout mark. After fixing the membrane, cut its excess part above the strip.

				TN_FOUNDATION_PVC_PROTECT_PROF		DESIGN	APPROVED
				Socle arrangement. Option 1. Finishing with piece materials.		SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED			DWG No. 4.1 - 2021.07	REV.

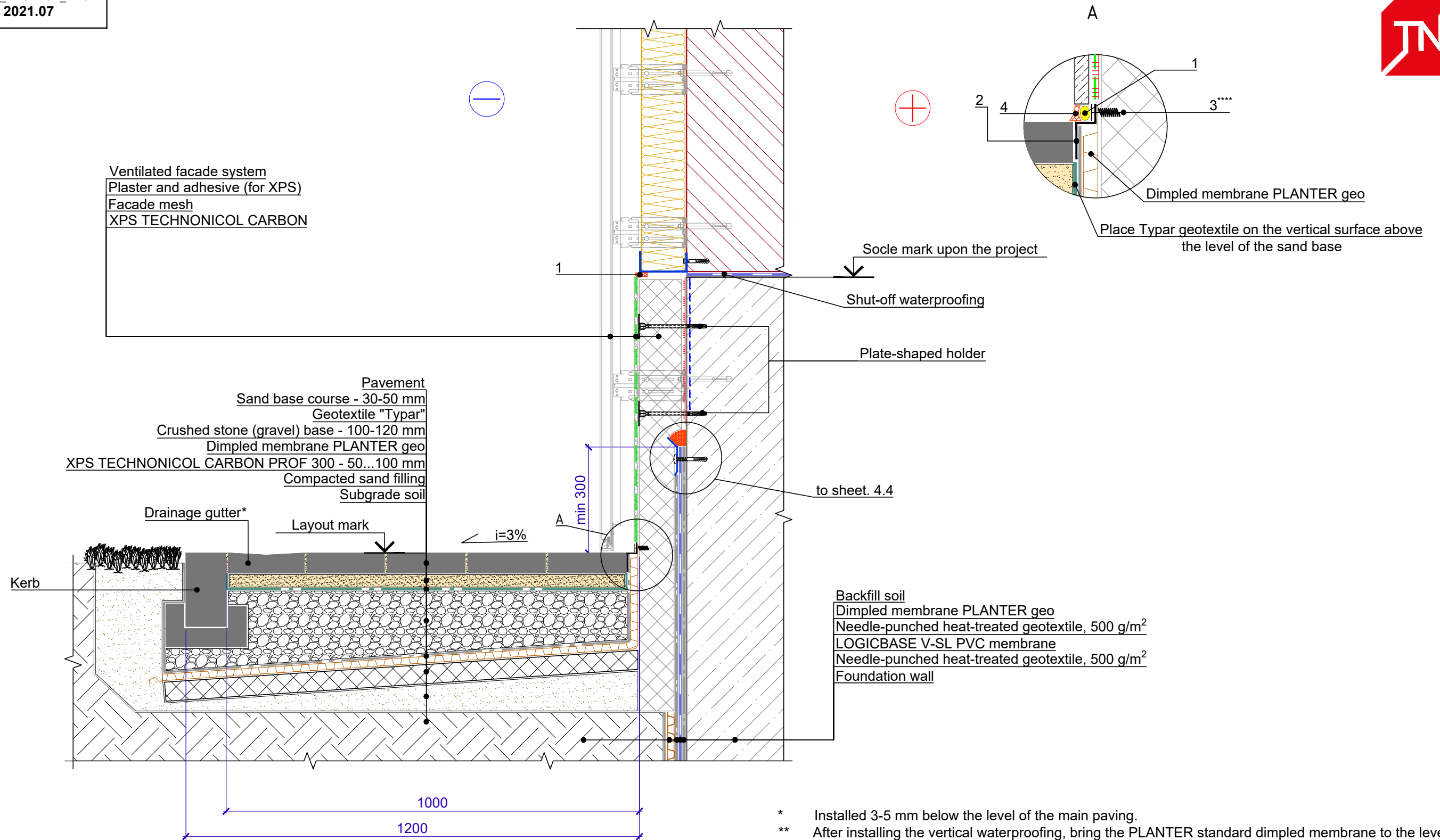


- \* Installed 3-5 mm below the level of the main paving.
- \*\* After installing the vertical waterproofing, bring the PLANTER standard dimpled membrane to the level of the top of the foundation and fasten temporary. Before starting the socle insulation and blind area arrangement, cut the dimpled membrane off to the level of the bottom of the vertical insulation slab.
- \*\*\* The length of the fasteners is selected based on the thickness of the insulation and should be 15 mm less than the thickness of the insulation
- \*\*\*\* Place the PLANTER geo dimpled membrane on the vertical surface of the insulation above the layout mark and fix it with a PLANTER Profile strip so that the horizontal edge of the strip coincides with the layout mark. After fixing the membrane, cut its excess part above the strip.

**Specification of detail DWG No. 4.2 - 2021.07**

Position	Name	Consumption on 1 l.m. of junction	Unit	Note
1	Filler made of foamed polyethylene	1.00	m	
2	PLANTER Profile strip	1.05	m	
3	Plastic facade/socle screw R16	5	pcs.	
4	Polyurethane sealant	upon the project	l	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
					SCALE	DATE
				Socle arrangement. Option 2. Plaster finishing.	DWG No. 4.2 - 2021.07	REV.
REV.	DATE	DESCRIPTION	CHECKED			



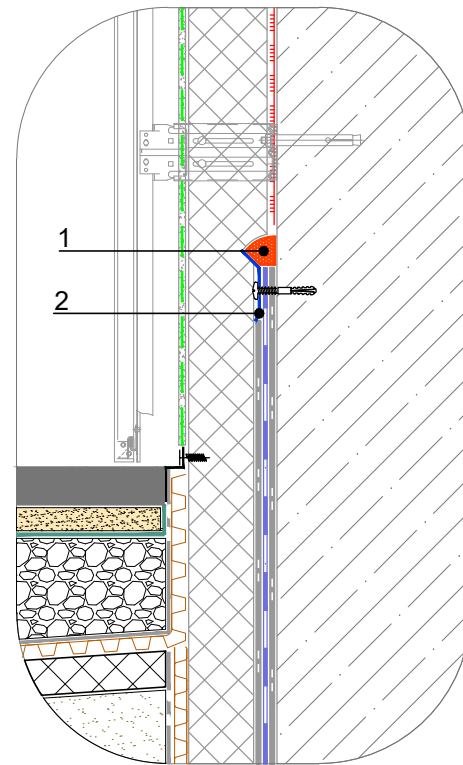
- \* Installed 3-5 mm below the level of the main paving.
- \*\* After installing the vertical waterproofing, bring the PLANTER standard dimpled membrane to the level of the top of the foundation and fasten temporary. Before starting the socle insulation and blind area arrangement, cut the dimpled membrane off to the level of the bottom of the vertical insulation slab.
- \*\*\* The length of the fasteners is selected based on the thickness of the insulation and should be 15 mm less than the thickness of the insulation
- \*\*\*\* Place the PLANTER geo dimpled membrane on the vertical surface of the insulation above the layout mark and fix it with a PLANTER Profile strip so that the horizontal edge of the strip coincides with the layout mark. After fixing the membrane, cut its excess part above the strip.

**Specification of detail DWG No. 4.3 - 2021.07**

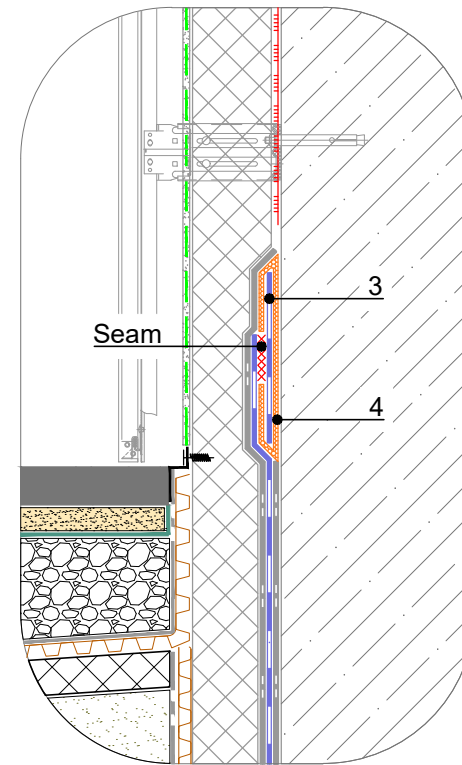
Position	Name	Consumption on 1 l.m. of junction	Unit	Note
1	Filler made of foamed polyethylene	1.00	m	
2	PLANTER Profile strip	1.05	m	
3	Plastic facade/socle screw R16	5	pcs.	
4	Polyurethane sealant	upon the project	l	

				TN_FOUNDATION_PVC_PROTECT_PROF		DESIGN	APPROVED
						SCALE	DATE
				Socle arrangement. Option 3. Ventilated facade.		DWG No. 4.3 - 2021.07	REV.
REV.	DATE	DESCRIPTION	CHECKED				

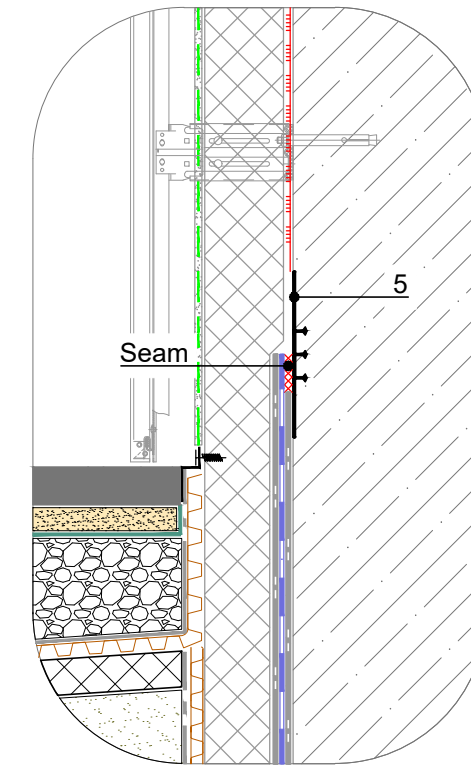
Termination of waterproofing.  
Option 1. With edge rail



Termination of waterproofing.  
Option 2. With waterproofing tape  
LOGICBASE V-Strip FB 220 (300) mm



Termination of waterproofing.  
Option 3. With waterstop



**Specification of option 1**

Position	Name	Consumption on 1 l.m. of junction	Unit	Note
1	Polyurethane sealant	0.15	l	
2	Edge rail	1.05	m	

**Specification of option 2**

Position	Name	Consumption on 1 l.m. of junction	Unit	Note
3	LOGICBASE V-Strip FB 220 (300) mm	upon the project	m	
4	Two-component epoxy adhesive	upon the project	kg.	

**Specification of option 3**

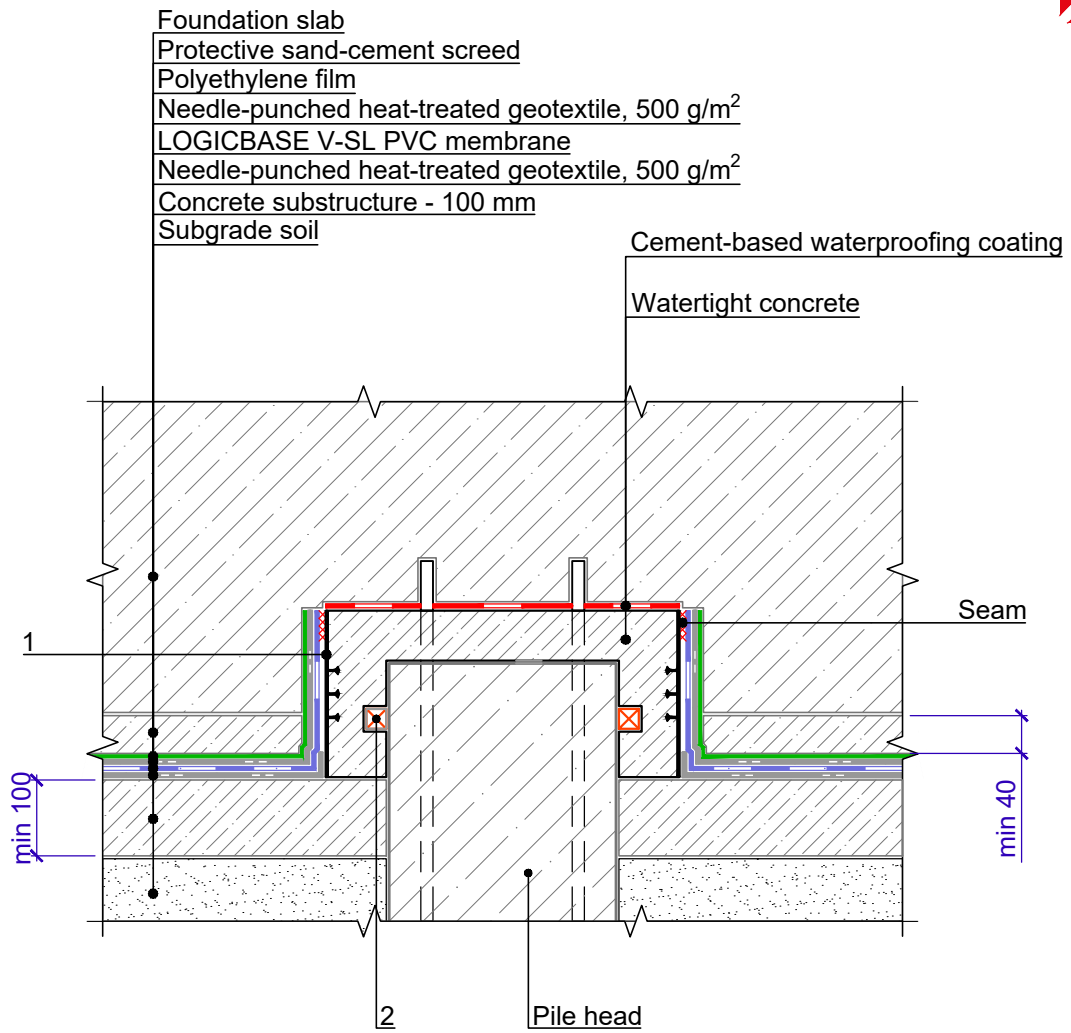
Position	Name	Consumption on 1 l.m. of junction	Unit	Note
5	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Termination of waterproofing on vertical surface	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 4.4 - 2021.07	REV.



## Register of drawings for arrangement of junction to pile head

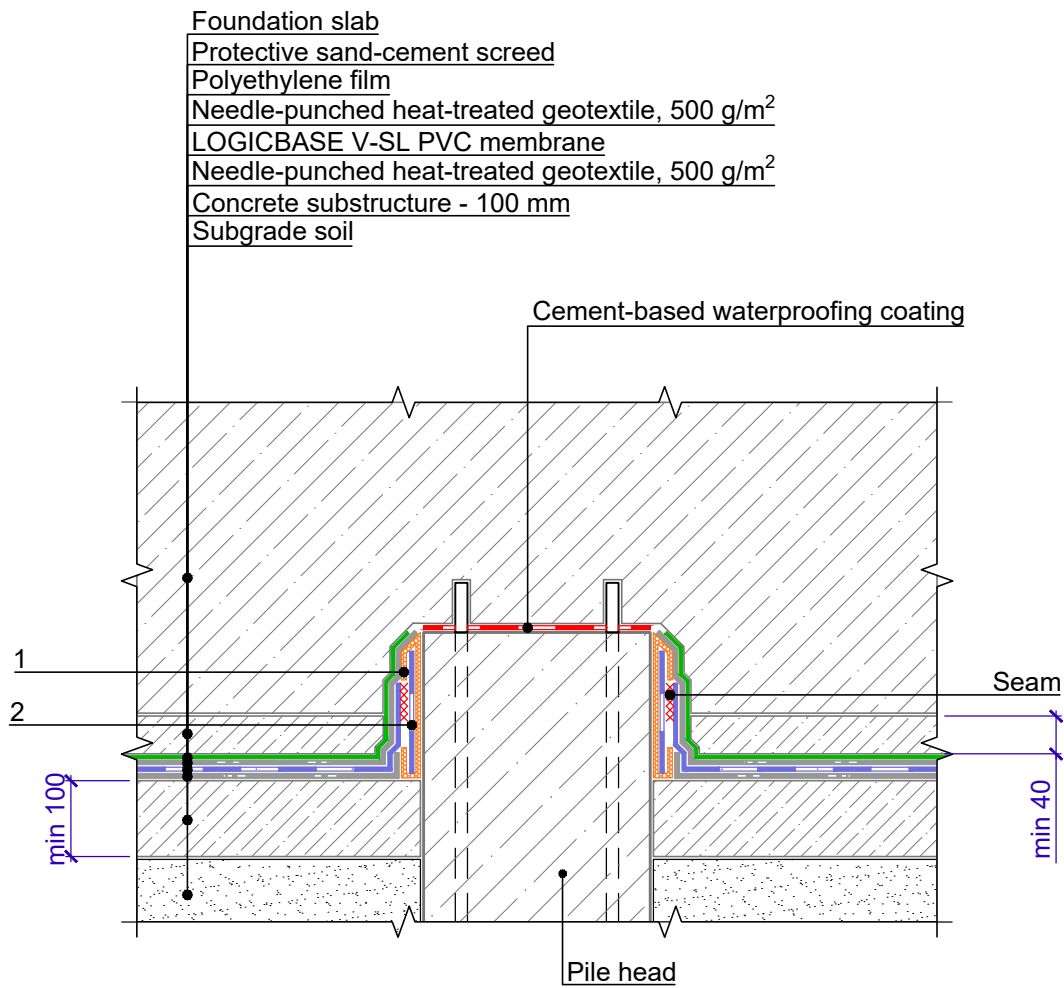
№	Name	DWG No.
5.1	Junction to pile head. Option 1	5.1
5.2	Junction to pile head. Option 2	5.2
5.3	Junction to pile group	5.3



**Specification of detail DWG No. 5.1 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m	
2	Swelling polymer profile	upon the project	m	

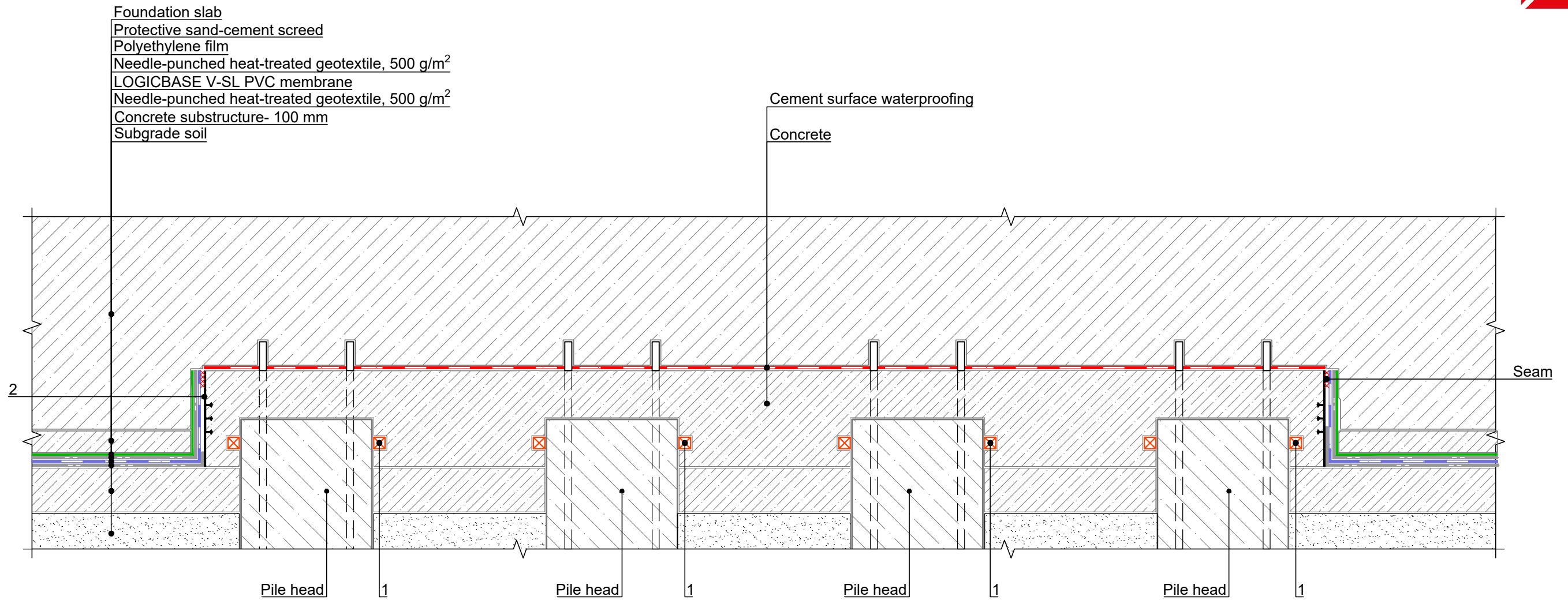
				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Junction to pile head with a waterstop	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 5.1 - 2021.07	REV.



**Specification of detail DWG No. 5.2 - 2021.07**

Position	Name	Consumption on 1 l.m. of junction	Unit	Note
1	Two-component epoxy adhesive	upon the project	kg.	
2	PVC strip 300x50mm made of LOGICBASE V-SL membrane	upon the project	m	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Junction to pile head with an adhesive anchor	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 5.2 - 2021.07	REV.



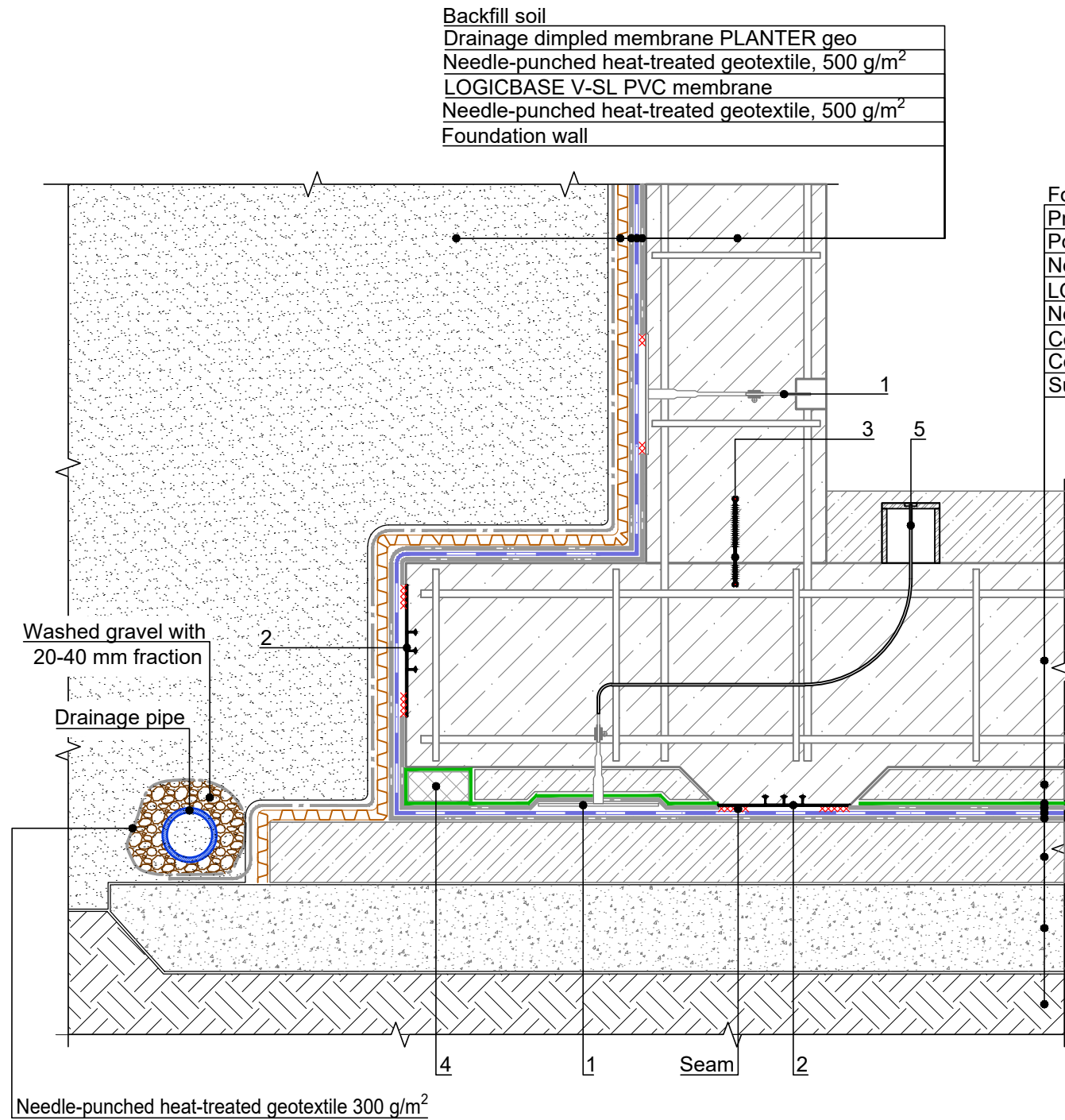
**Specification of detail DWG No. 5.3 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Swelling polymer profile	upon the project	m	
2	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m	

REV.	DATE	DESCRIPTION	CHECKED	TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Junction to tile grillage. (Option for waterproofing of multiple piles in the group)	SCALE	DATE
					DWG No. 5.3 - 2021.07	REV.

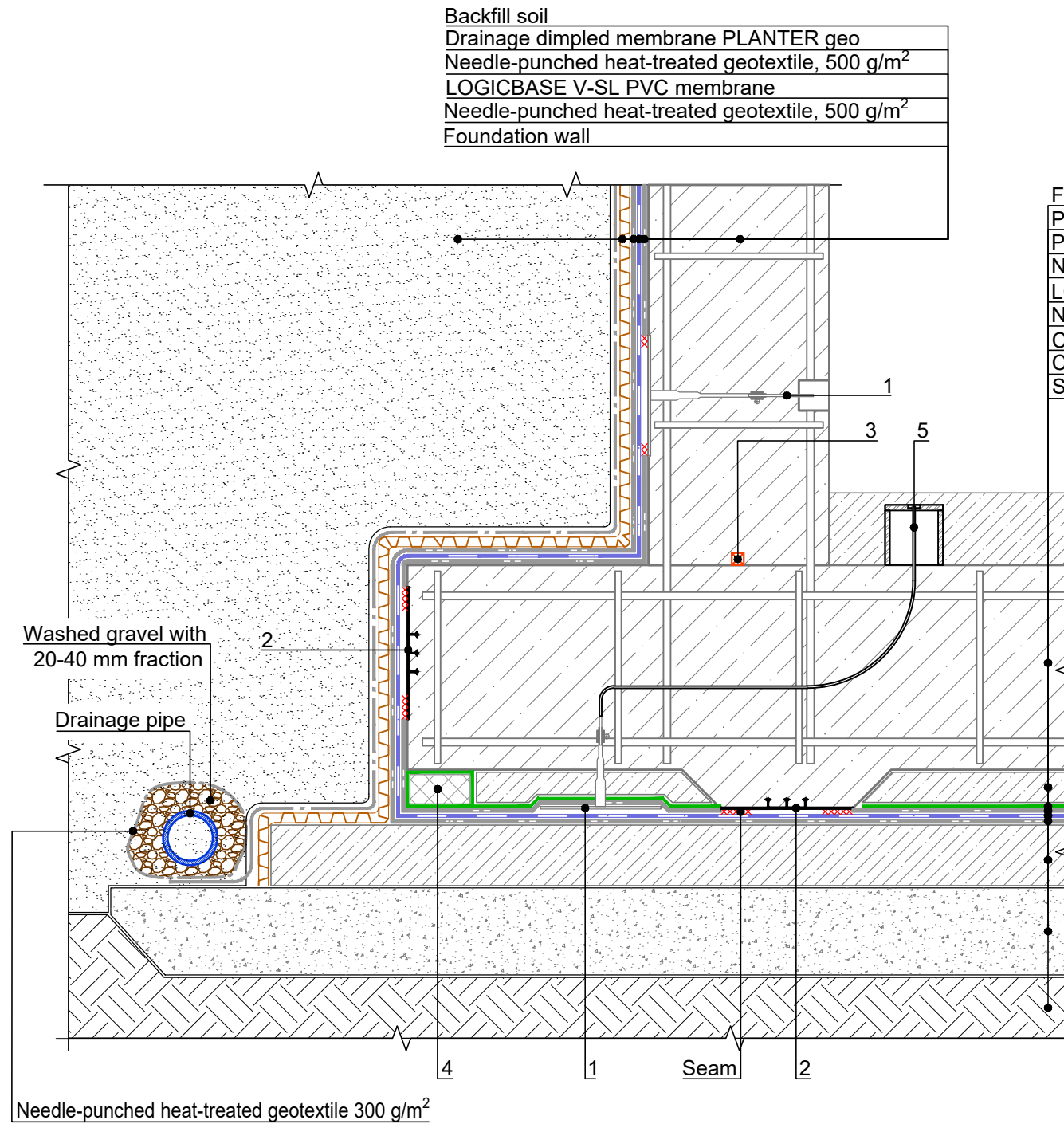
## Register of drawings for arrangement of junction of vertical and horizontal parts of the foundation

№	Name	DWG No.
6.1	Junction of vertical and horizontal parts of the foundation. Sealing with waterstop	6.1
6.2	Junction of vertical and horizontal parts of the foundation. Sealing with swelling profile	6.2



Specification of detail DWG No. 6.1 - 2021.07

Position	Name	Consumption	Unit	Note	
1	Injection flange	upon the project	pcs.		
2	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m		
3	Waterstop TECHNOMICOL IC-125-2-SP	1.05	m		
4	XPS TECHNOMICOL CARBON PROF	upon the project	m <sup>3</sup>		
5	Injection pipe	upon the project	pcs.		
TN_FOUNDATION_PVC_PROTECT_PROF				DESIGN	APPROVED
Junction of vertical and horizontal parts of the foundation. Sealing with waterstop				SCALE	DATE
				DWG No. 6.1 - 2021.07	REV.
REV.	DATE	DESCRIPTION	CHECKED		



Specification of detail DWG No. 6.2 - 2021.07

Position	Name	Consumption	Unit	Note	
1	Injection flange	upon the project	pcs.		
2	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m		
3	Swelling polymer profile	upon the project	m		
4	XPS TECHNOMICOL CARBON PROF	upon the project	m <sup>3</sup>		
5	Injection pipe	upon the project	pcs.		
TN_FOUNDATION_PVC_PROTECT_PROF				DESIGN	APPROVED
Junction of vertical and horizontal parts of the foundation. Sealing with swelling profile				SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 6.2 - 2021.07	REV.

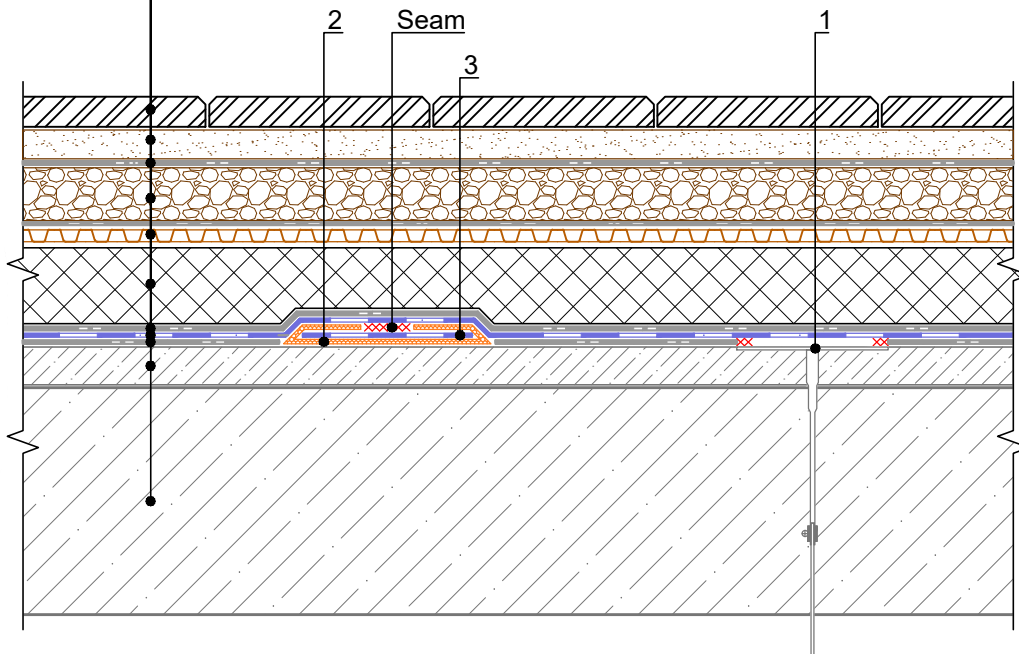
## Register of drawings for arrangement of junction to podium

No	Name	DWG No.
7.1	Waterproofing system composition on the covering slab. For pedestrian traffic load	7.1
7.2	Waterproofing system composition on the covering slab. With green spaces	7.2
7.3	Waterproofing system composition on the covering slab. For transport load	7.3
7.4	Junction of a podium to the socle through the expansion joint	7.4
7.5	Junction of a podium to the socle	7.5
7.6	Expansion joint on the podium	7.6
7.7	Transition of waterproofing covering from the wall to the covering slab	7.7





- Paving slabs
- Sand base course - 30-50 mm
- Heat-treated geotextile
- Gravel with 5-20 mm fraction
- Dimpled membrane PLANTER geo
- XPS TECHNICONOL CARBON PROF
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- LOGICBASE V-SL PVC membrane
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- Slope-forming sand-cement screed
- Reinforced concrete

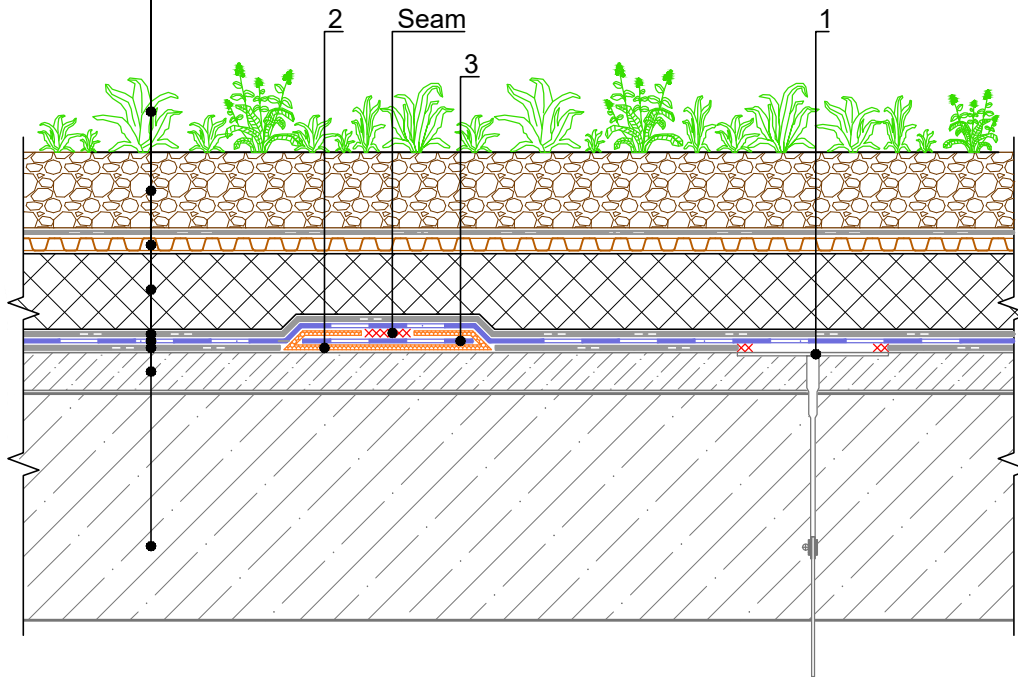


**Specification of detail DWG No. 7.1 - 2021.07**

Position	Name	Consumption	Unit	Note	
1	Injection flange	upon the project	pcs.		
2	Two-component epoxy adhesive	upon the project	kg.		
3	PVC strip 300x50mm made of LOGICBASE V-SL membrane	upon the project	m		
TN_FOUNDATION_PVC_PROTECT_PROF				DESIGN	APPROVED
Waterproofing system composition on the covering slab. For pedestrian traffic load				SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 7.1 - 2021.07	REV.



- Vegetation
- Vegetation substrate
- Dimpled membrane PLANTER geo
- XPS TECHNICONICOL CARBON PROF
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- LOGICBASE V-SL PVC membrane
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- Slope-forming sand-cement screed
- Reinforced concrete

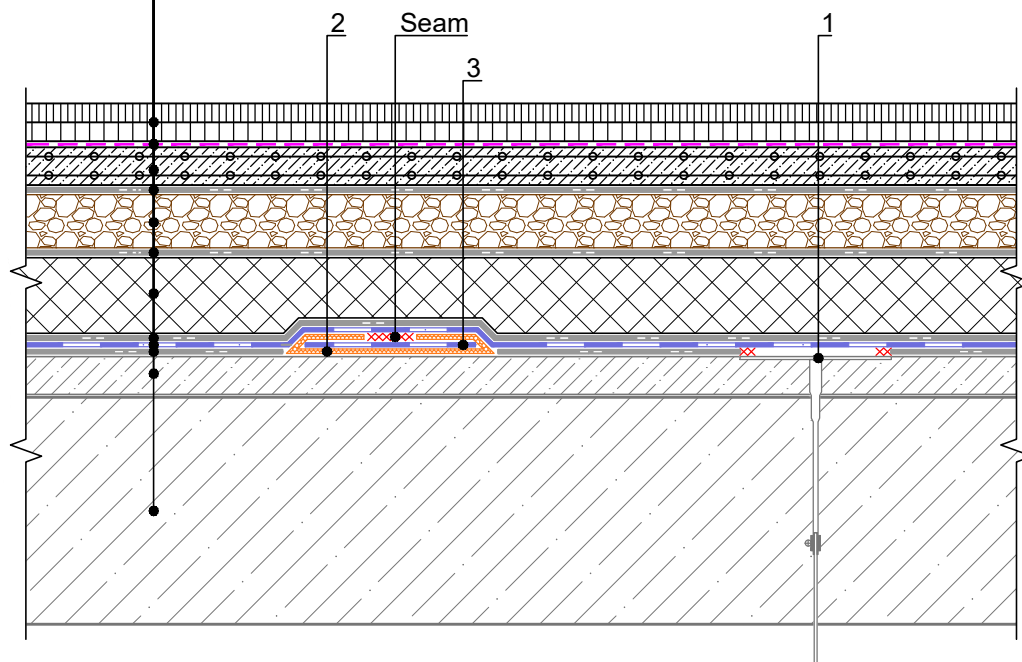


**Specification of detail DWG No. 7.2 - 2021.07**

Position	Name	Consumption	Unit	Note	
1	Injection flange	upon the project	pcs.		
2	Two-component epoxy adhesive	upon the project	kg.		
3	PVC strip 300x50mm made of LOGICBASE V-SL membrane	upon the project	m		
TN_FOUNDATION_PVC_PROTECT_PROF				DESIGN	APPROVED
Waterproofing system composition on the covering slab. With green spaces				SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 7.2 - 2021.07	REV.

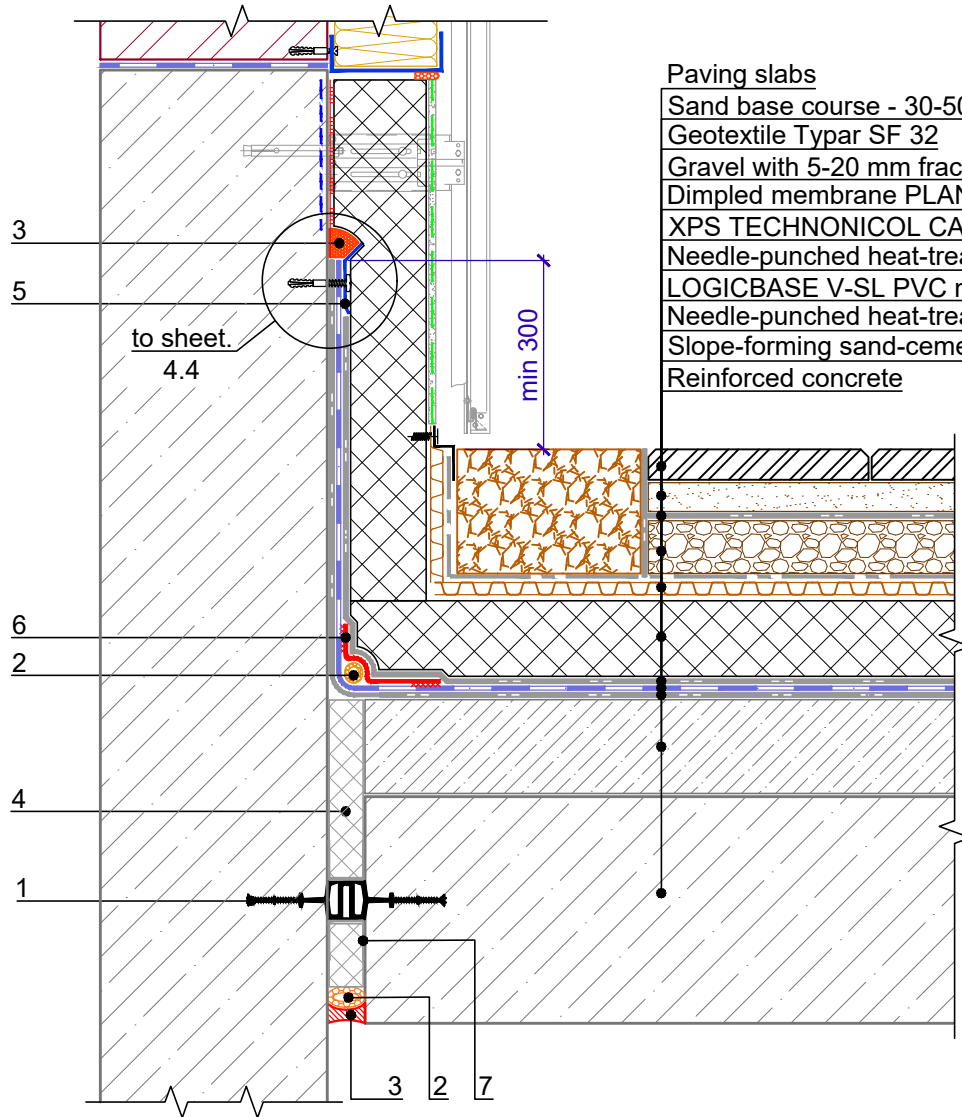


Asphalt concrete  
 Bitumen Road Emulsion  
 Reinforced concrete plate  
 Geotextile, 300 g/m<sup>2</sup>  
 Gravel with 40-70 mm fraction  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 XPS TECHNOMICOL CARBON SOLID 500  
 Geotextile, 500 g/m<sup>2</sup>  
 LOGICBASE V-SL PVC membrane  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 Slope-forming sand-cement screed  
 Reinforced concrete



**Specification of detail DWG No. 7.3 - 2021.07**

Position	Name	Consumption	Unit	Note	
1	Injection flange	upon the project	pcs.		
2	Two-component epoxy adhesive	upon the project	kg.		
3	PVC strip 300x50mm made of LOGICBASE V-SL membrane	upon the project	m		
TN_FOUNDATION_PVC_PROTECT_PROF				DESIGN	APPROVED
Waterproofing system composition on the covering slab. For transport load				SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 7.3 - 2021.07	REV.

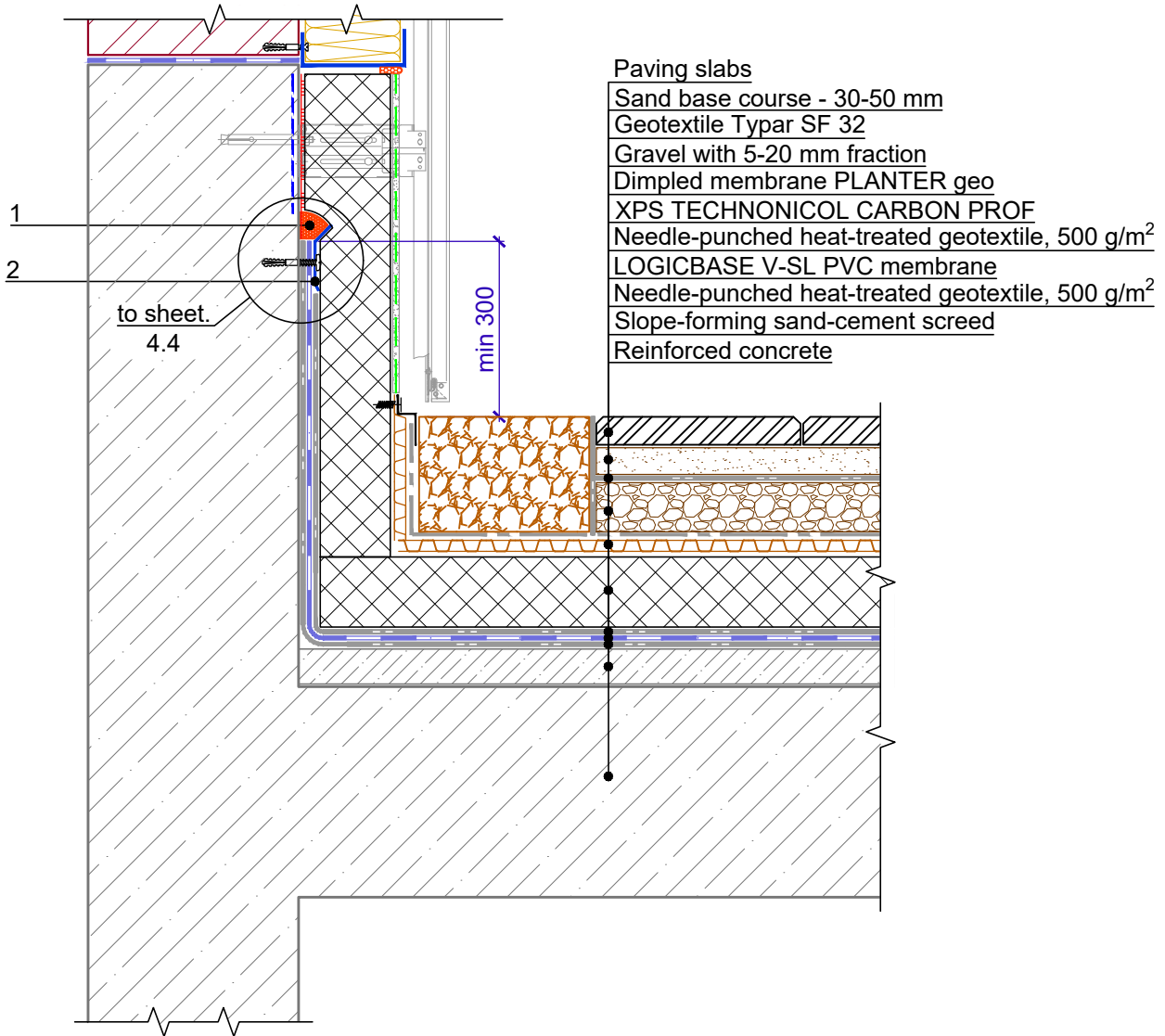


**Paving slabs**

- Sand base course - 30-50 mm
- Geotextile Typar SF 32
- Gravel with 5-20 mm fraction
- Dimpled membrane PLANTER geo
- XPS TECHNONICOL CARBON PROF
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- LOGICBASE V-SL PVC membrane
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- Slope-forming sand-cement screed
- Reinforced concrete

**Specification of detail DWG No. 7.4 - 2021.07**

Position	Name	Consumption	Unit	Note	
1	Waterstop TECHNONICOL IM-240/20 (or Waterstop TECHNONICOL IM-260/50)	1.05	m		
2	Filler made of foamed polyethylene	1.05	m		
3	Polyurethane sealant	0.25	l		
4	XPS TECHNONICOL CARBON PROF	upon the project	m <sup>3</sup>		
5	Edge rail	1.05	m		
6	LOGICBASE V-SL PVC membrane	upon the project	m <sup>2</sup>		
7	Needle-punched heat-treated geotextile, 300 g/m <sup>2</sup> (or polyethylene film)	upon the project	m <sup>2</sup>		
			DESIGN	APPROVED	
			SCALE	DATE	
REV.	DATE	DESCRIPTION	CHECKED	Junction of a podium to the socle through the expansion joint	
			DWG No. 7.4 - 2021.07	REV.	



- Paving slabs
- Sand base course - 30-50 mm
- Geotextile Typar SF 32
- Gravel with 5-20 mm fraction
- Dimpled membrane PLANTER geo
- XPS TECHNONICOL CARBON PROF
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- LOGICBASE V-SL PVC membrane
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- Slope-forming sand-cement screed
- Reinforced concrete

**Specification of detail DWG No. 7.5 - 2021.07**

Position	Name	Consumption on 1 l.m. of junction	Unit	Note
1	Edge rail	1.05	m	
2	Polyurethane sealant	0.15	l	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Junction of a podium to the socle	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 7.5 - 2021.07	REV.



Paving slabs

Sand base course - 30-50 mm

Geotextile Typar SF 32

Gravel with 5-20 mm fraction

Dimpled membrane PLANTER geo

XPS TECHNONICOL CARBON PROF

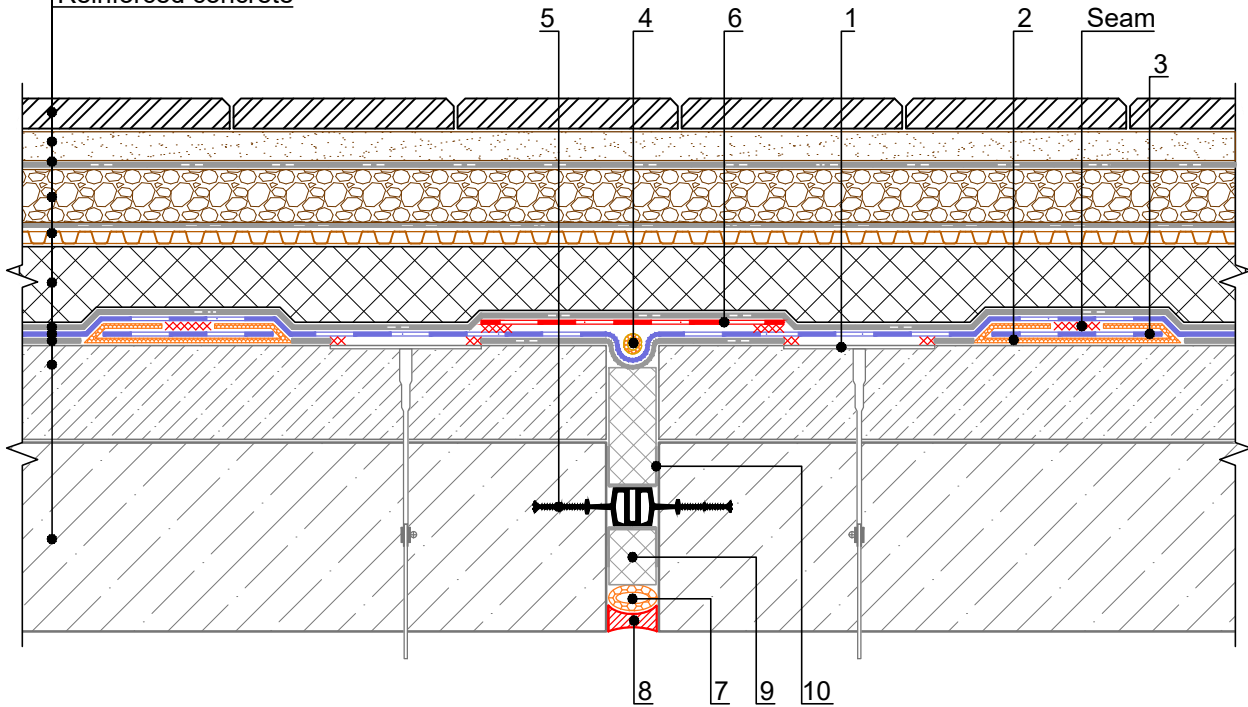
Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>

LOGICBASE V-SL PVC membrane

Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>

Slope-forming sand-cement screed

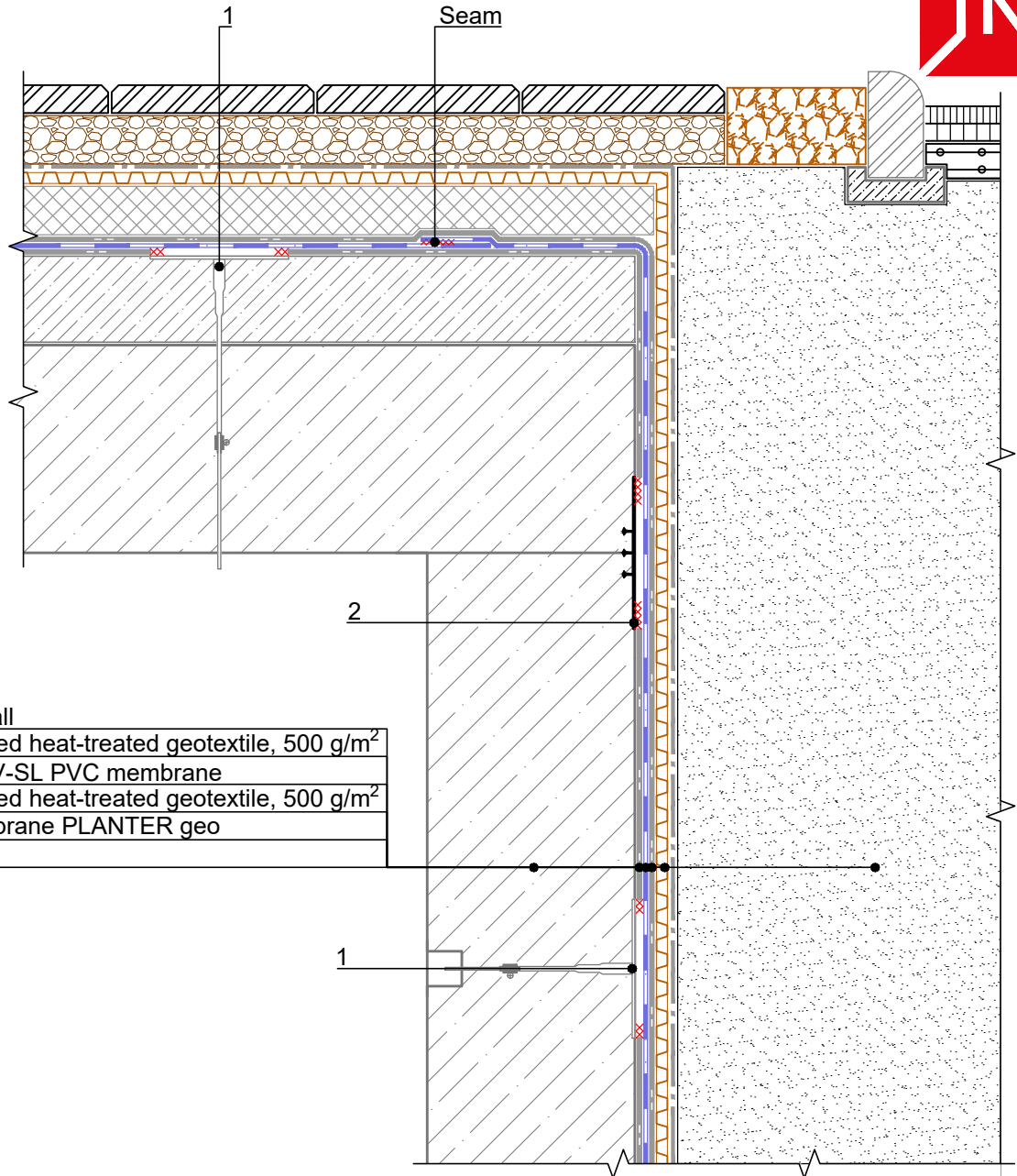
Reinforced concrete



**Specification of detail DWG No. 7.6 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Two-component epoxy adhesive	upon the project	kg.	
3	LOGICBASE V-Strip FB 220 waterproofing tape, 300 mm	upon the project	m	
4	Filler made of foamed polyethylene	1.05	m	
5	Waterstop TECHNONICOL IM-240/20 (or Waterstop TECHNONICOL IM-260/50)	1.05	m	
6	LOGICBASE V-SL PVC membrane	upon the project	m <sup>2</sup>	
7	Filler made of foamed polyethylene	1.05	m	
8	Polyurethane sealant	upon the project	l	
9	XPS TECHNONICOL CARBON PROF	upon the project	m <sup>3</sup>	
10	Needle-punched heat-treated geotextile, 300 g/m <sup>2</sup> (or polyethylene film)	upon the project	m <sup>2</sup>	

				TN_FOUNDATION_PVC_PROTECT_PROF		DESIGN	APPROVED
				Expansion joint on the podium		SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED			DWG No. 7.6 - 2021.07	REV.



**Specification of detail DWG No. 7.7 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	1.05	m	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Transition of waterproofing covering from the wall to the covering slab	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 7.7 - 2021.07	REV.

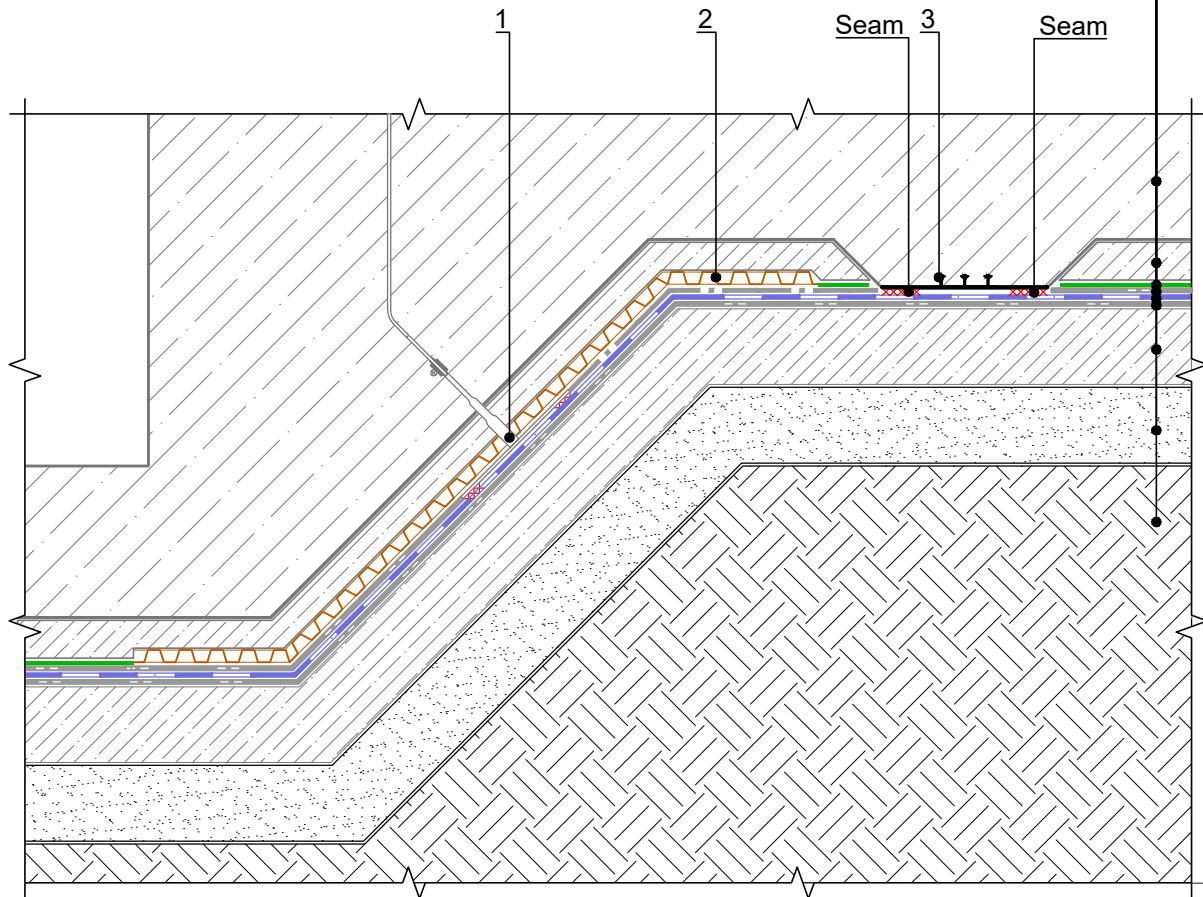
## Register of drawings for arrangement of junctions in case of complex geometry

№	Name	DWG No.
8.1	Arrangement of waterproofing on an inclined surface	8.1





Foundation slab
Protective sand-cement screed
Polyethylene film
Needle-punched heat-treated geotextile, 500 g/m <sup>2</sup>
LOGICBASE V-SL PVC membrane
Needle-punched heat-treated geotextile, 500 g/m <sup>2</sup>
Concrete substructure - 100 mm
Compacted sand
Subgrade soil



**Specification of detail DWG No. 8.1 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Dimpled membrane PLANTER standard	upon the project	m <sup>2</sup>	
3	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m	
			DESIGN	APPROVED
			SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	REV.
			Arrangement of waterproofing on an inclined surface	
			DWG No. 8.1 - 2021.07	

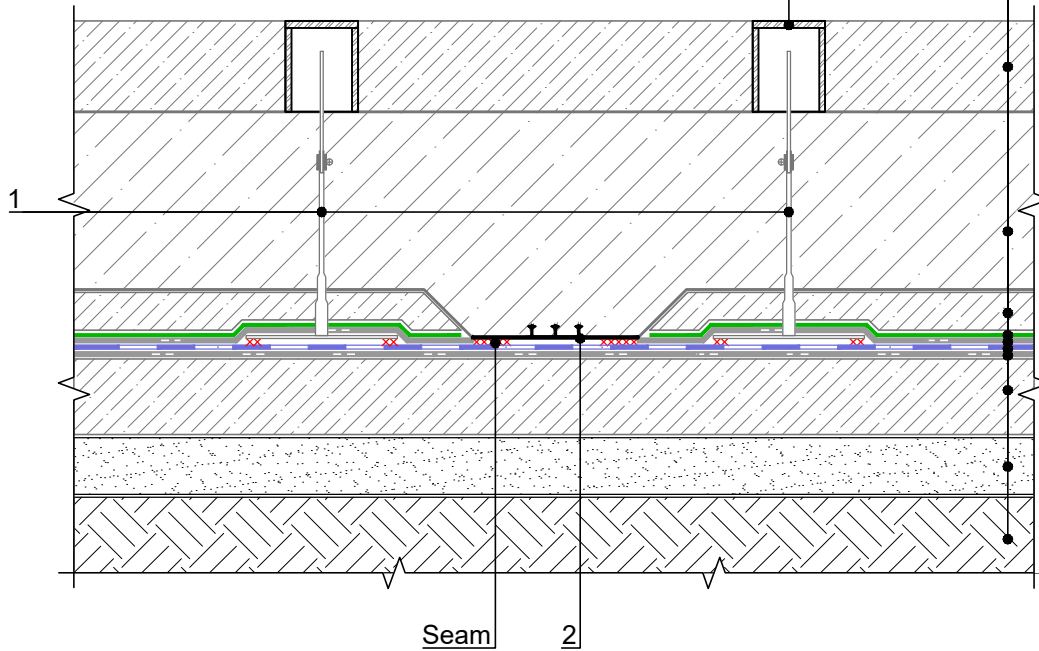
## Register of drawings for arrangement of junction to podium

№	Name	DWG No.
9.1	Arrangement of injection pipes to bring them to the surface of reinforced concrete structures. Option 1	9.1
9.2	Arrangement of injection pipes to bring them to the surface of reinforced concrete structures. Option 2	9.2
9.3	Arrangement of injection pipes to bring them to the surface of reinforced concrete structures. Option 3	9.3
9.4	Arrangement of injection pipes to bring them to the surface of reinforced concrete structures. Option 4	9.4



- Floor cement screed
- Foundation slab
- Protective sand-cement screed
- Polyethylene film
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- LOGICBASE V-SL PVC membrane
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- Concrete substructure - 100 mm
- Compacted sand
- Subgrade soil

Hatch with metal cover



**Specification of detail DWG No. 9.1 - 2021.07**

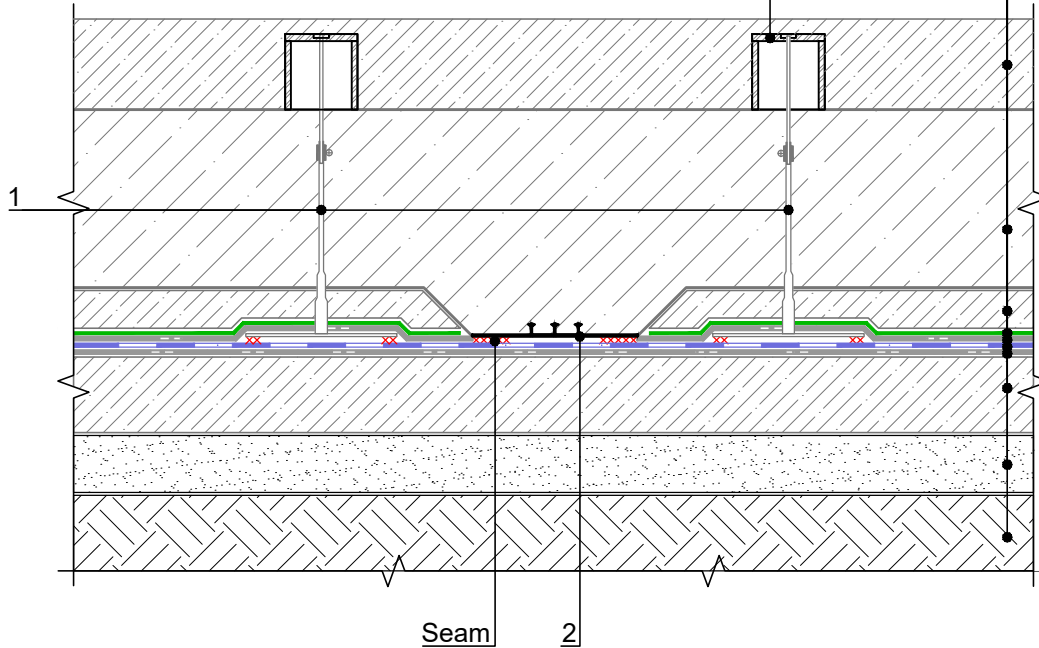
Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNONICOL EC-220-3 (or Waterstop TECHNONICOL EC-320-4)	upon the project	m	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Arrangement of injection pipes to bring them to the surface of reinforced concrete structures. Option 1	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 9.1 - 2021.07	REV.



- Floor cement screed
- Foundation slab
- Protective sand-cement screed
- Polyethylene film
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- LOGICBASE V-SL PVC membrane
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- Concrete substructure - 100 mm
- Compacted sand
- Subgrade soil

Pipe with sanitary plug  
 covered with a floor



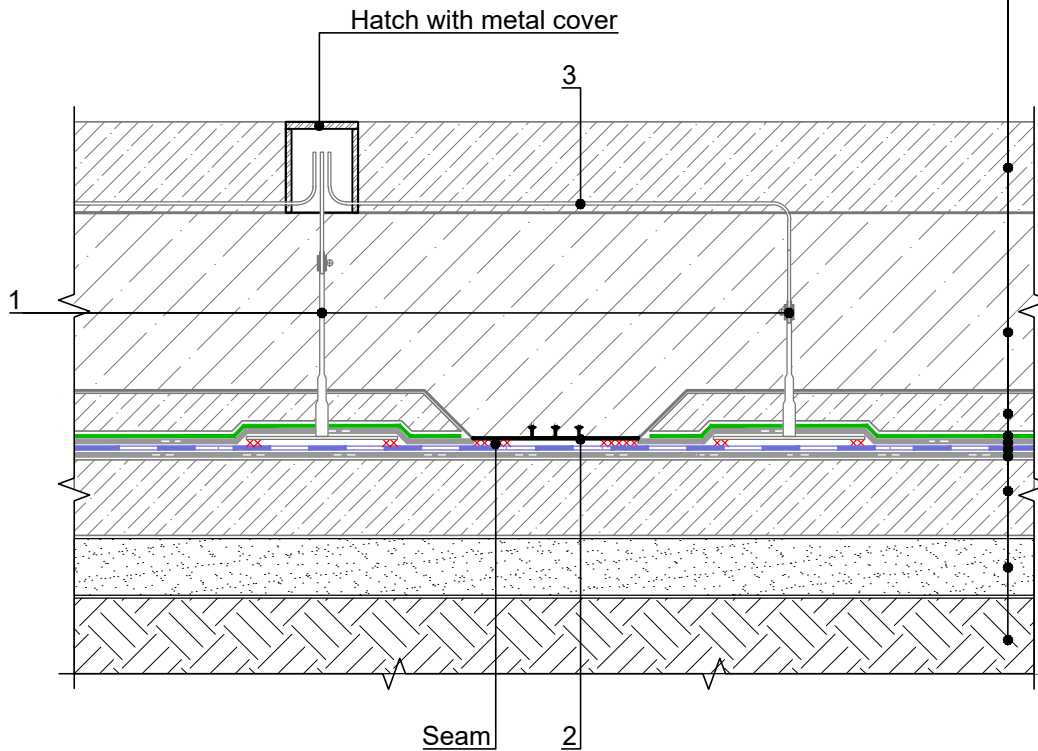
**Specification of detail DWG No. 9.2 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNICONOL EC-220-3 (or Waterstop TECHNICONOL EC-320-4)	upon the project	m	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Arrangement of injection pipes to bring them to the surface of reinforced concrete structures. Option 2	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 9.2 - 2021.07	REV.



- Floor cement screed
- Foundation slab
- Protective sand-cement screed
- Polyethylene film
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- LOGICBASE V-SL PVC membrane
- Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>
- Concrete substructure - 100 mm
- Compacted sand
- Subgrade soil



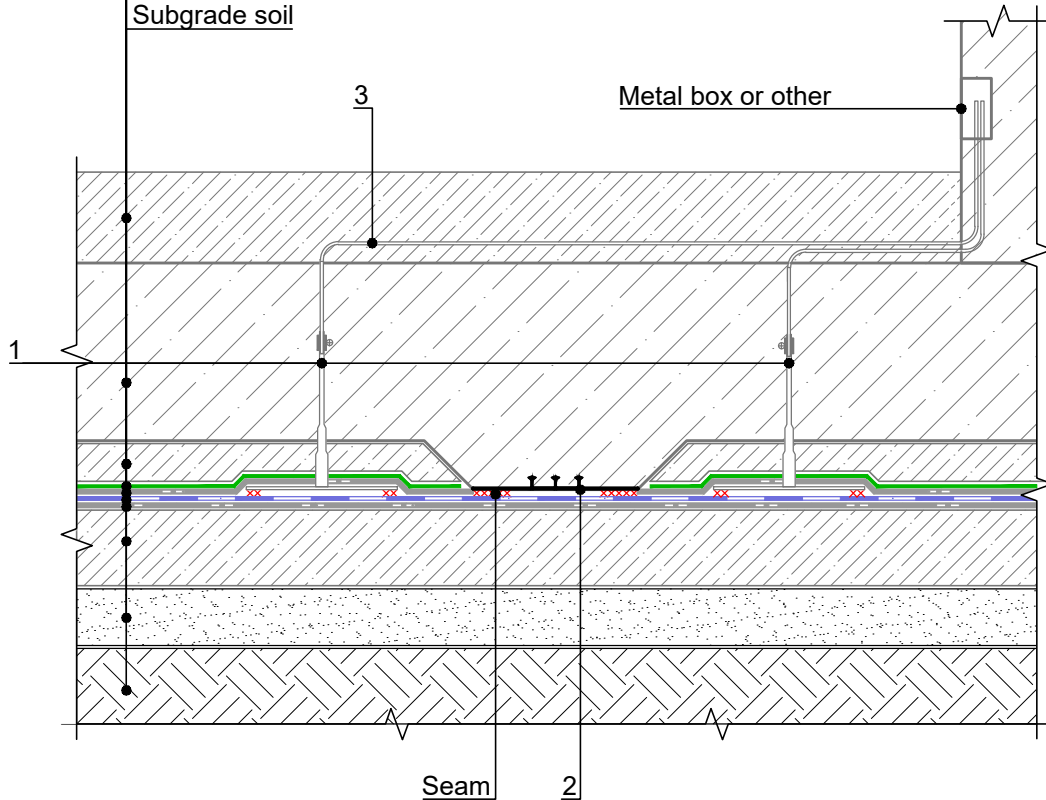
**Specification of detail DWG No. 9.3 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNICONOL EC-220-3 (or Waterstop TECHNICONOL EC-320-4)	upon the project	m	
3	Injection pipe	upon the project	pcs.	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Arrangement of injection pipes to bring them to the surface of reinforced concrete structures. Option 3	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 9.3 - 2021.07	REV.



Floor cement screed  
 Foundation slab  
 Protective sand-cement screed  
 Polyethylene film  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 LOGICBASE V-SL PVC membrane  
 Needle-punched heat-treated geotextile, 500 g/m<sup>2</sup>  
 Concrete substructure - 100 mm  
 Compacted sand  
 Subgrade soil



**Specification of detail DWG No. 9.4 - 2021.07**

Position	Name	Consumption	Unit	Note
1	Injection flange	upon the project	pcs.	
2	Waterstop TECHNOMICOL EC-220-3 (or Waterstop TECHNOMICOL EC-320-4)	upon the project	m	
3	Injection pipe	upon the project	pcs.	

				TN_FOUNDATION_PVC_PROTECT_PROF	DESIGN	APPROVED
				Arrangement of injection pipes to bring them to the surface of reinforced concrete structures. Option 4	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 9.4 - 2021.07	REV.