

# TECHNONICOL



## TECHNICAL SOLUTION FOR A PITCHED ROOF WITHOUT THERMAL INSULATION

TN\_SHINGLES\_CLASSIC\_EN



## Register of drawings

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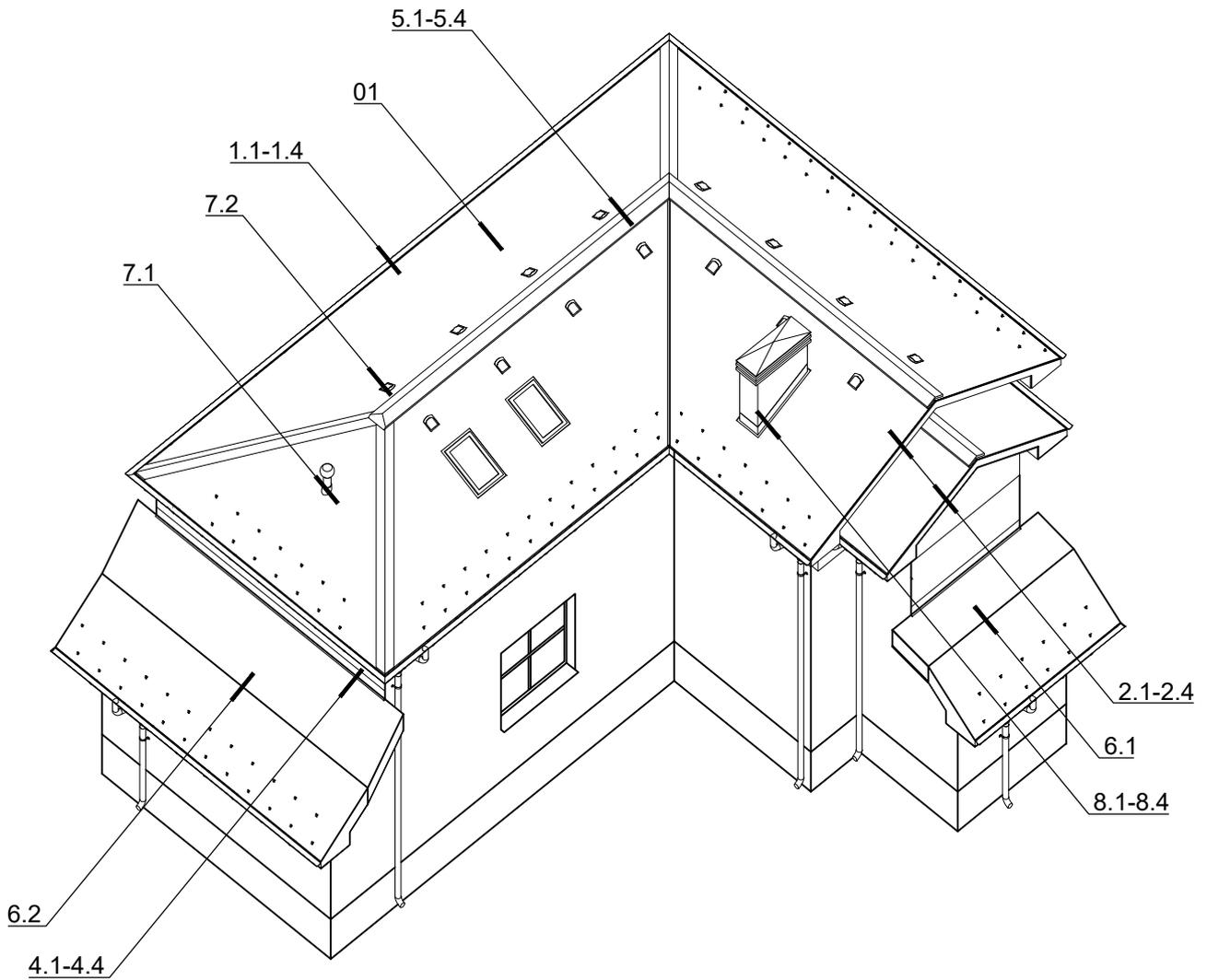
				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
					SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	Register of drawings	DWG No.	REV.



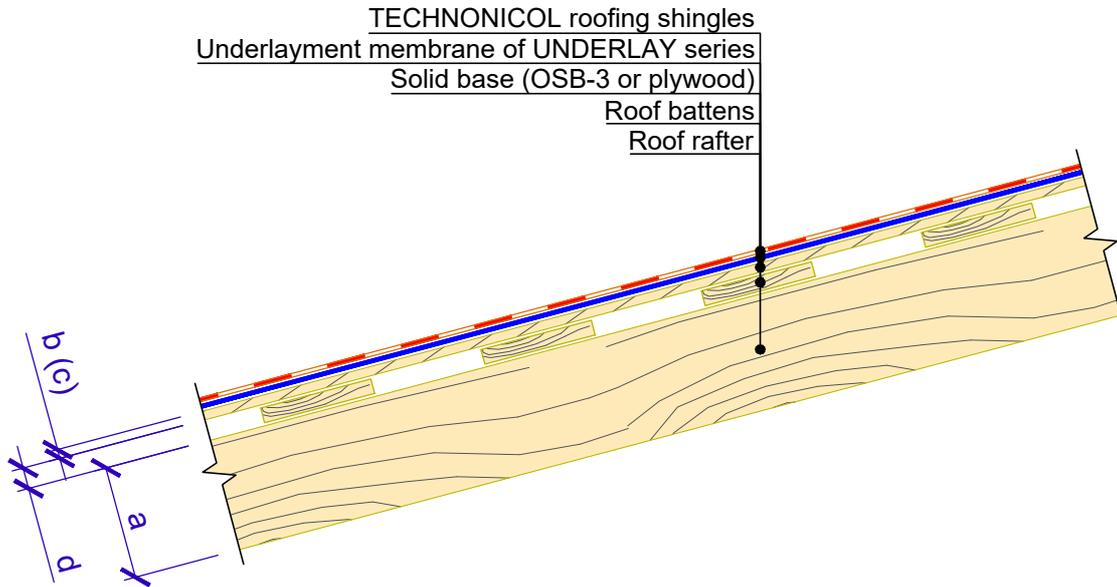
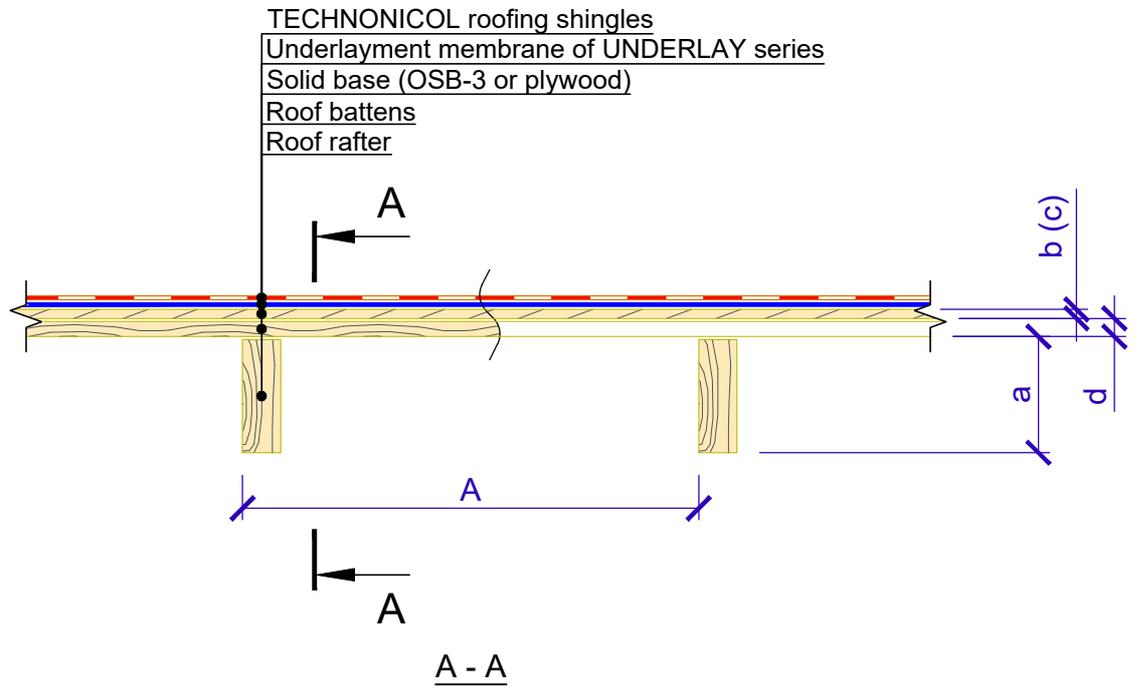
## Register of drawings

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				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				Register of drawings	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



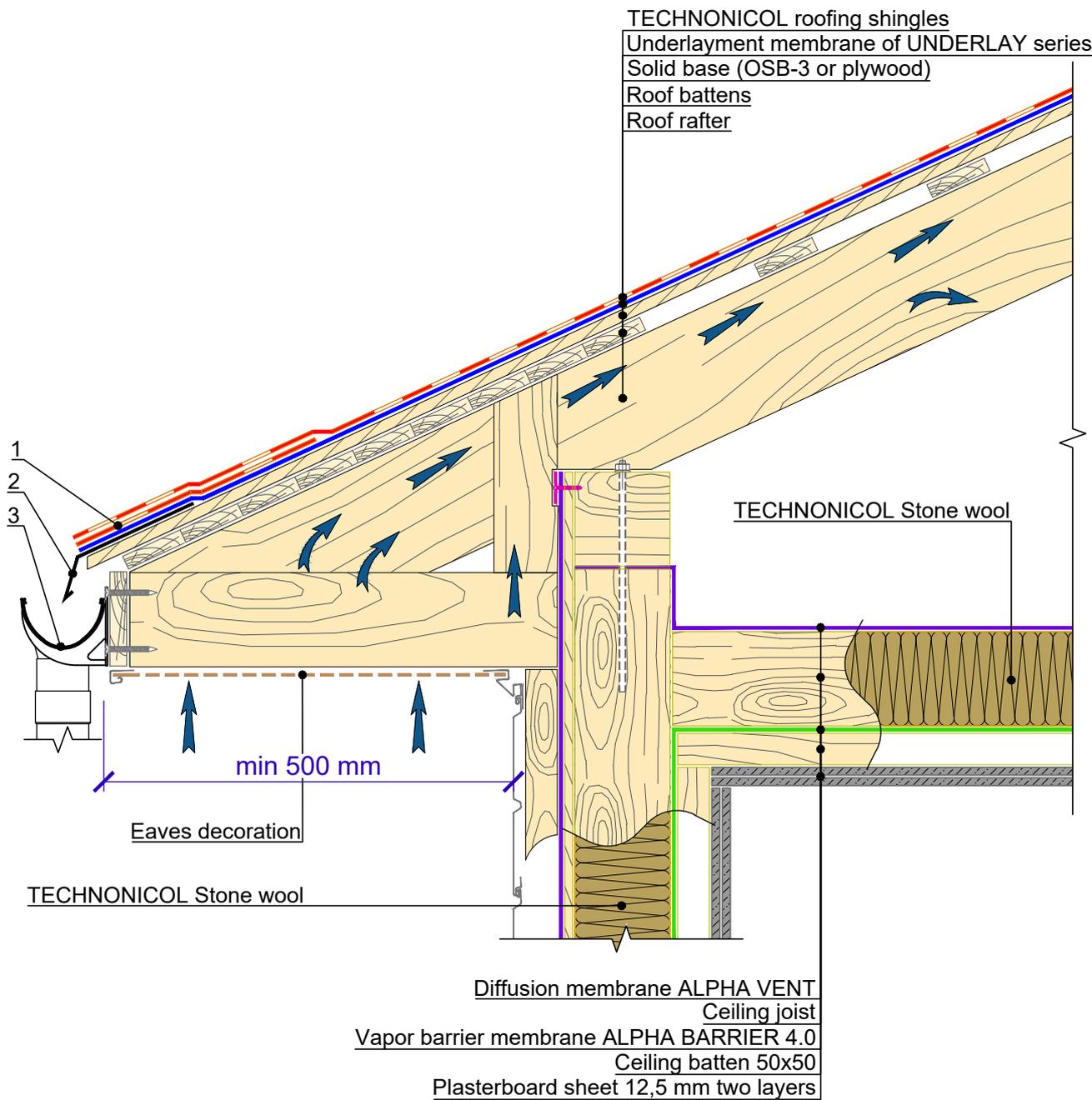
				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				Scheme of labeling of system details	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No.	REV.



Notes:

- A - Rafter pitch
- a - Roof rafter height
- b - Thickness of OSB-3
- c - Thickness of plywood
- d - Thickness of roof battens

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				General structure of the TN-Shingles Classic roofing system	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 01 - 2021.10	REV.



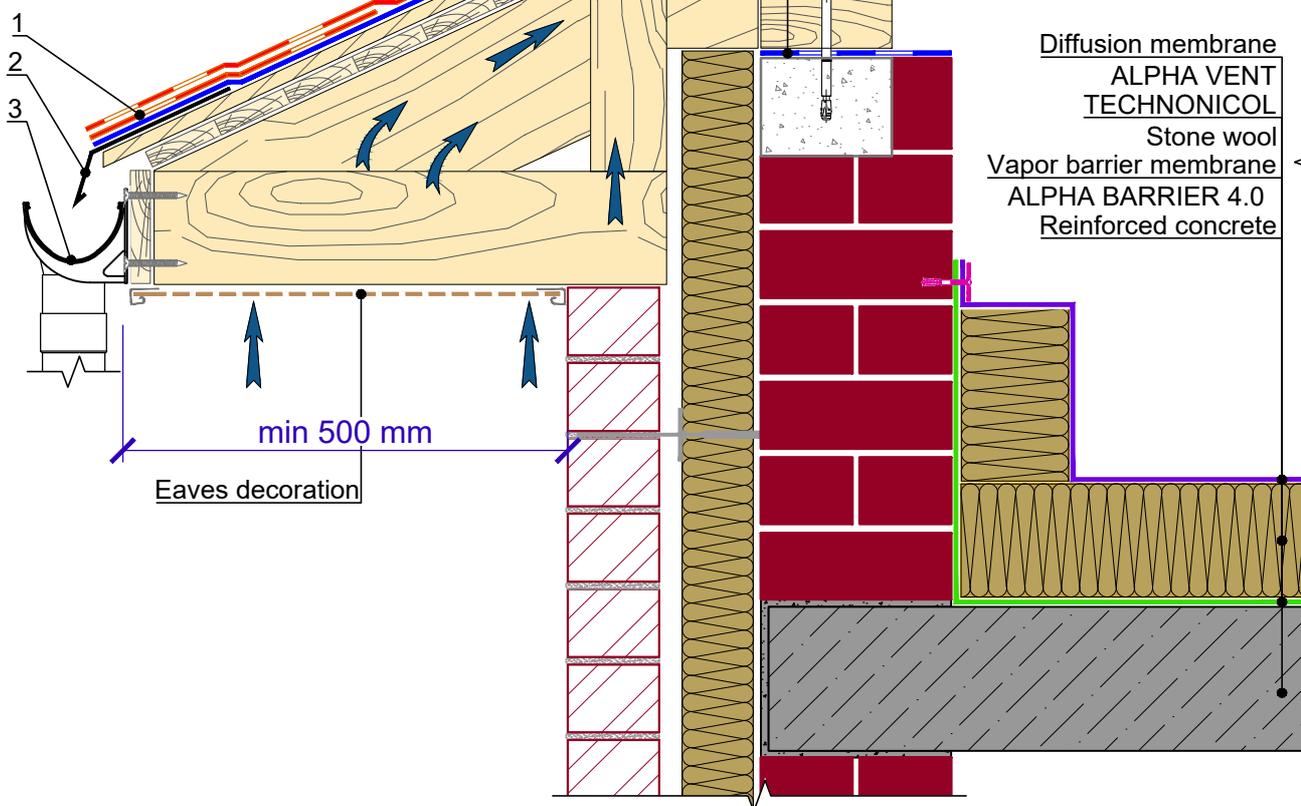
**Specification of detail DWG No. 1.1 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note	
1	Hip&ridge shingles	0.25	m <sup>2</sup>		
2	Metal flashing	0.5	pcs.	length 2 m	
3	Gutter	0.4 / 0.7	pcs.	length 3 m / 1.5 m	
TN_SHINGLES_CLASSIC_EN				DESIGN	APPROVED
Eaves overhang. Junction of the roof to the facade system TN-Facade Eco.				SCALE	DATE
				DWG No. 1.1 - 2021.10	REV.
REV.	DATE	DESCRIPTION	CHECKED		



TECHNONICOL roofing shingles  
Underlayment membrane of UNDERLAY series  
Solid base (OSB-3 or plywood)  
Roof battens  
Roof rafter

Cut-off waterproofing



Diffusion membrane  
ALPHA VENT  
TECHNONICOL  
Stone wool  
Vapor barrier membrane  
ALPHA BARRIER 4.0  
Reinforced concrete

min 500 mm

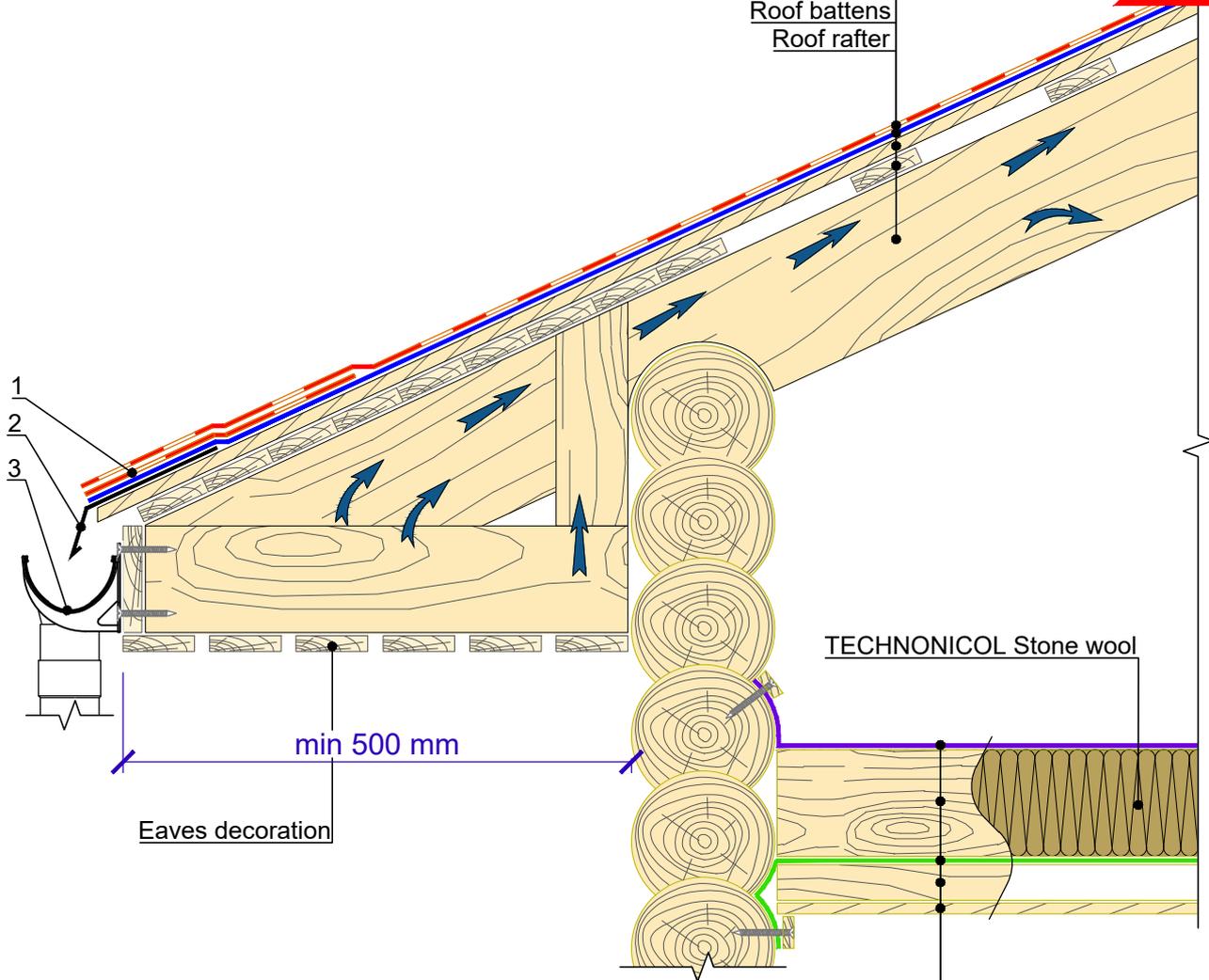
Eaves decoration

**Specification of detail DWG No. 1.2 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note	
1	Hip&ridge shingles	0.25	m <sup>2</sup>		
2	Metal flashing	0.5	pcs.	length 2 m	
3	Gutter	0.4 / 0.7	pcs.	length 3 m / 1.5 m	
TN_SHINGLES_CLASSIC_EN				DESIGN	APPROVED
Eaves overhang. Junction of the roof to the facade system TN-Facade Standard.				SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 1.2 - 2021.10	REV.



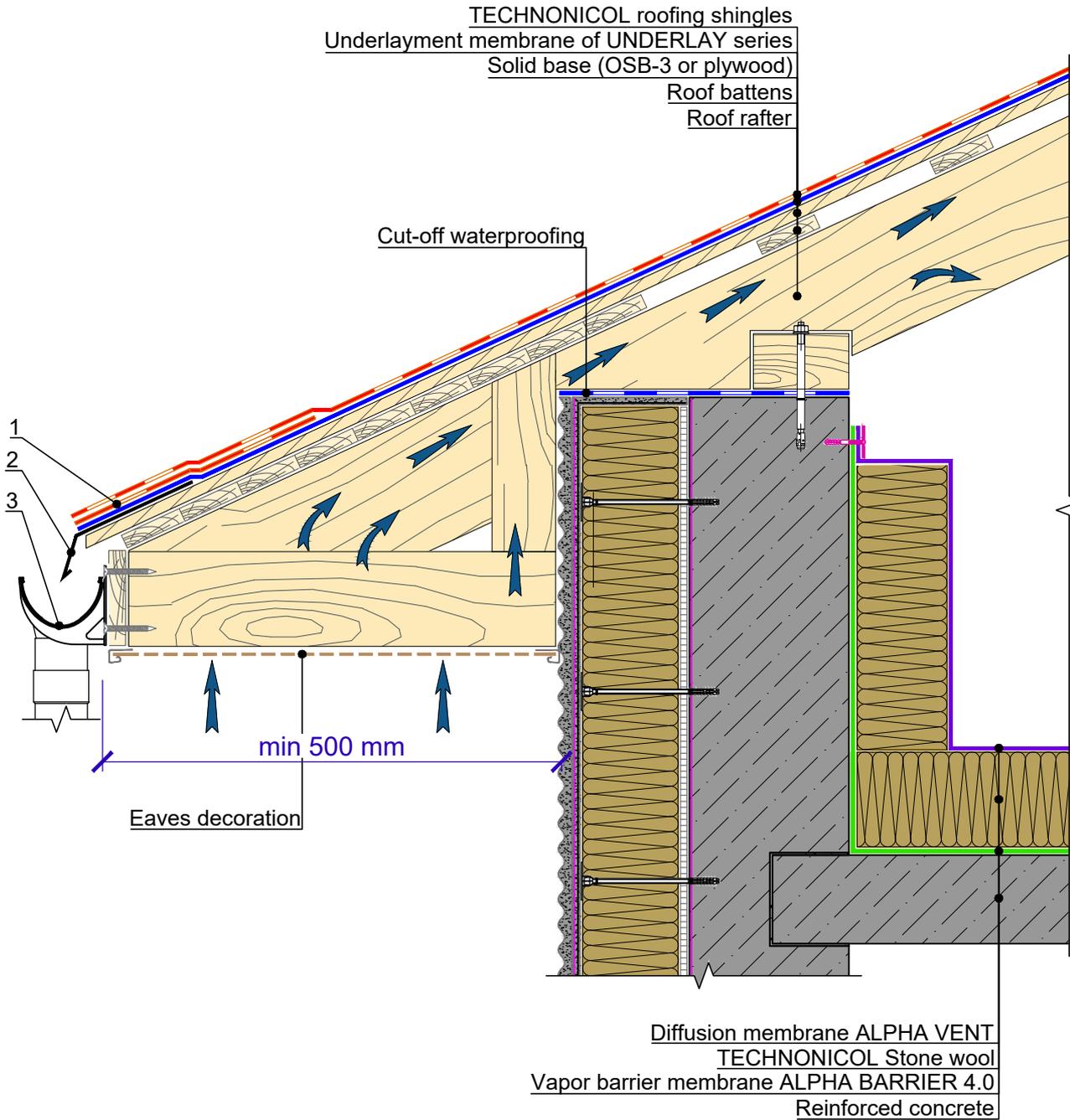
TECHNONICOL roofing shingles  
Underlayment membrane of UNDERLAY series  
Solid base (OSB-3 or plywood)  
Roof battens  
Roof rafter



Diffusion membrane ALPHA VENT  
Ceiling joist  
Vapor barrier membrane ALPHA BARRIER 4.0  
Ceiling batten 50x50  
OSB-3 or plywood

**Specification of detail DWG No. 1.3 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note	
1	Hip&ridge shingles	0.25	m <sup>2</sup>		
2	Metal flashing	0.5	pcs.	length 2 m	
3	Gutter	0.4 / 0.7	pcs.	length 3 m / 1.5 m	
TN_SHINGLES_CLASSIC_EN				DESIGN	APPROVED
Eaves overhang. Junction of the roof to the log wall.				SCALE	DATE
				DWG No. 1.3 - 2021.10	REV.
REV.	DATE	DESCRIPTION	CHECKED		

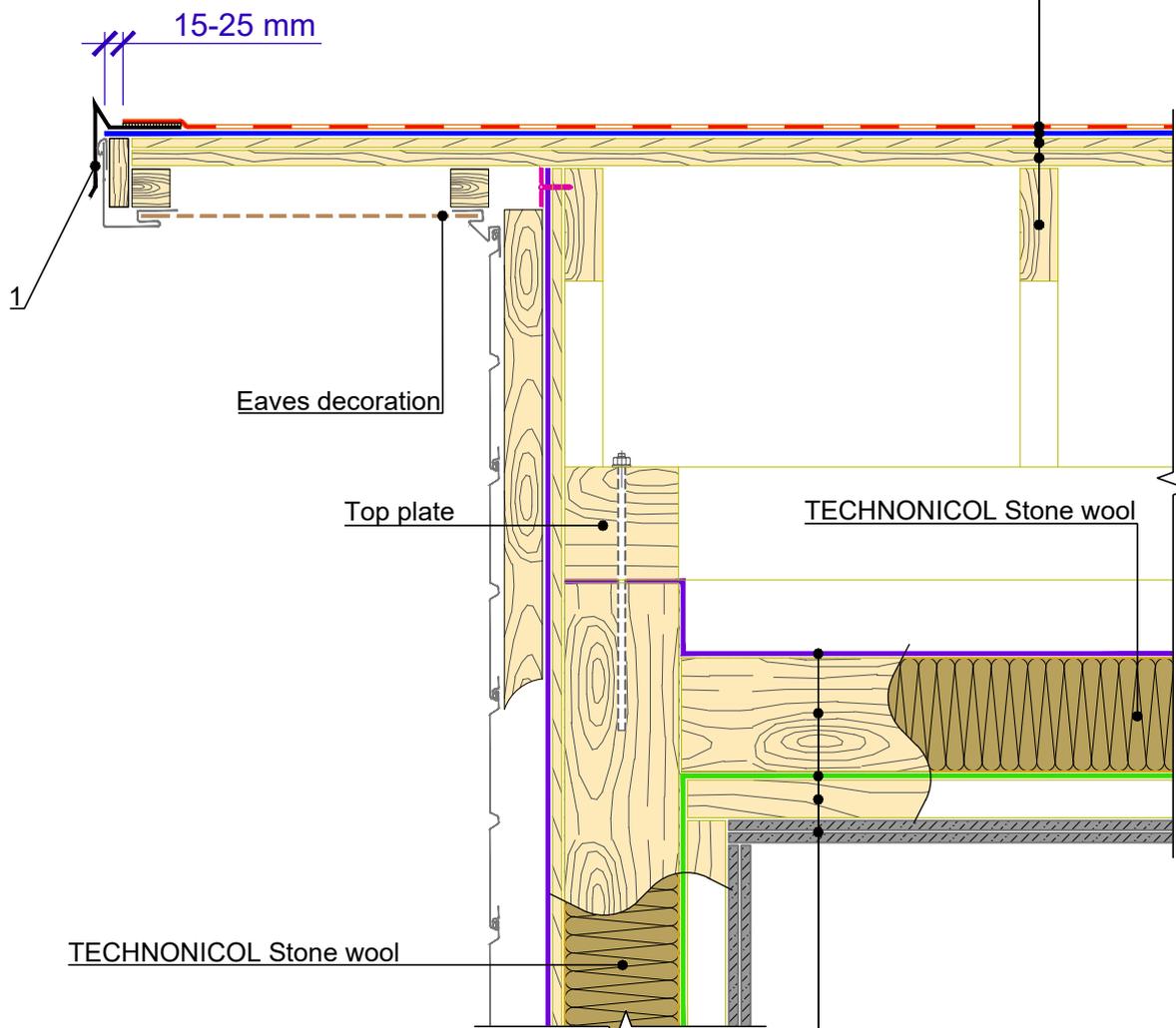


**Specification of detail DWG No. 1.4 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note	
1	Hip&ridge shingles	0.25	m <sup>2</sup>		
2	Metal flashing	0.5	pcs.	length 2 m	
3	Gutter	0.4 / 0.7	pcs.	length 3 m / 1.5 m	
TN_SHINGLES_CLASSIC_EN				DESIGN	APPROVED
Eaves overhang. Junction of the roof to the facade system TN-Facade Decor.				SCALE	DATE
				DWG No. 1.4 - 2021.10	REV.
REV.	DATE	DESCRIPTION	CHECKED		



TECHNONICOL roofing shingles  
Underlayment membrane of UNDERLAY series  
Solid base (OSB-3 or plywood)  
Roof battens  
Roof rafter



Diffusion membrane ALPHA VENT  
Ceiling joist  
Vapor barrier membrane ALPHA BARRIER 4.0  
Ceiling batten 50x50  
Plasterboard sheet 12,5 mm two layers

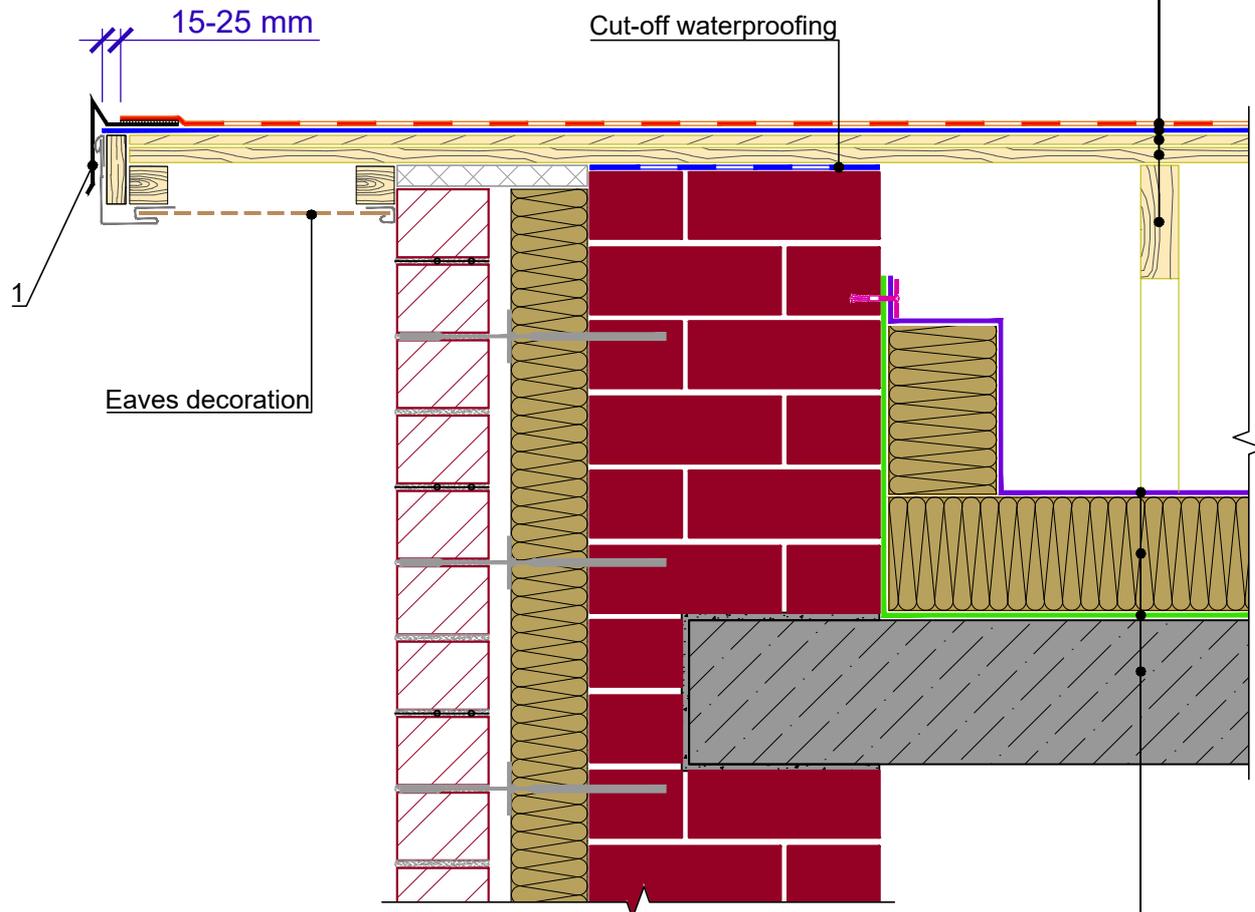
**Specification of detail DWG No. 2.1 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note
1	Metal flashing	0.5	pcs.	length 2 m

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				Gable. Junction of the roof to the facade system TN-Facade Eco.	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 2.1 - 2021.10	REV.



TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter



Diffusion membrane ALPHA VENT  
 TECHNONICOL Stone wool  
 Vapor barrier membrane ALPHA BARRIER 4.0  
 Reinforced concrete

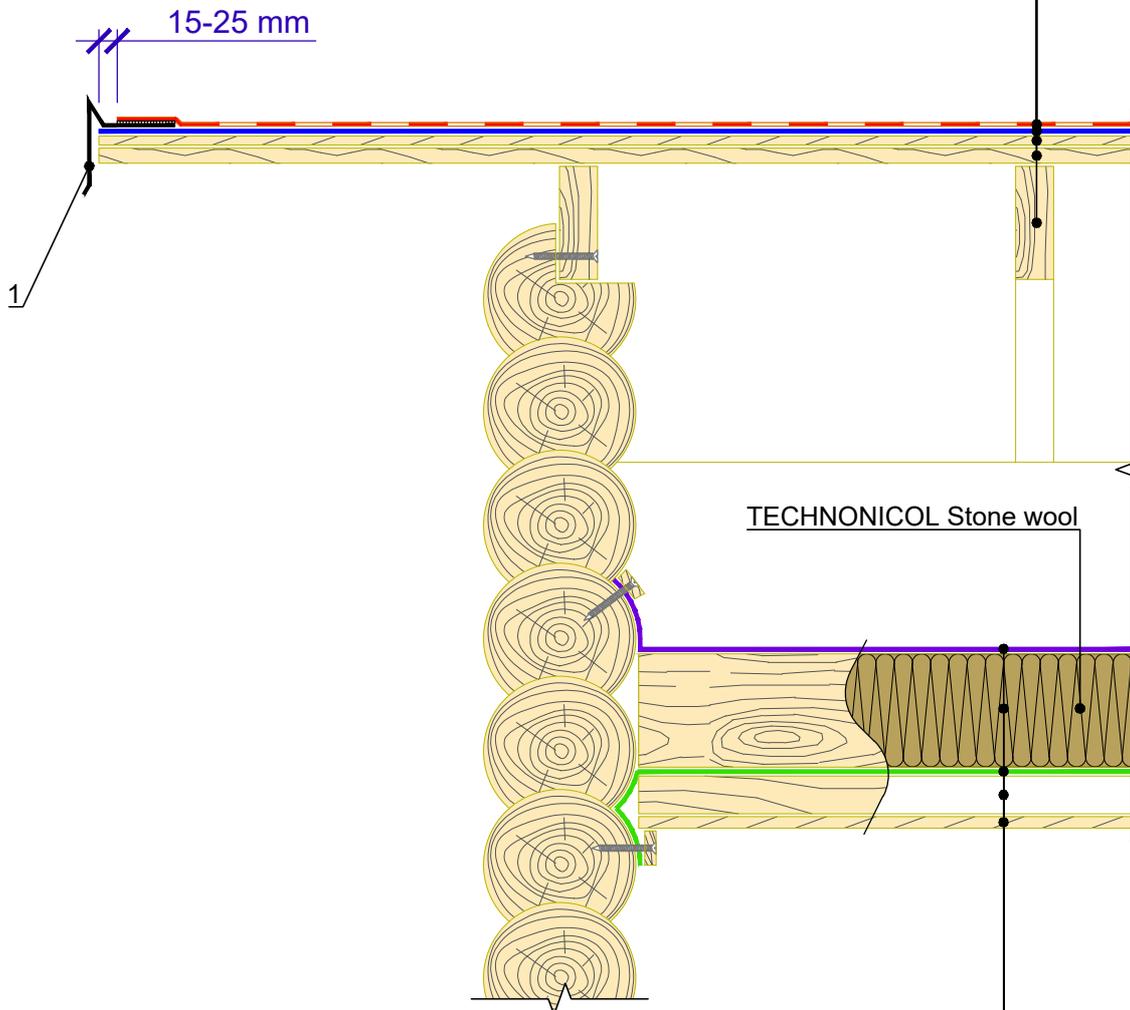
**Specification of detail DWG No. 2.2 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note
1	Metal flashing	0.5	pcs.	length 2 m

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				Gable. Junction of the roof to the facade system TN-Facade Standard.	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 2.2 - 2021.10	REV.



TECHNONICOL roofing shingles  
Underlayment membrane of UNDERLAY series  
Solid base (OSB-3 or plywood)  
Roof battens  
Roof rafter



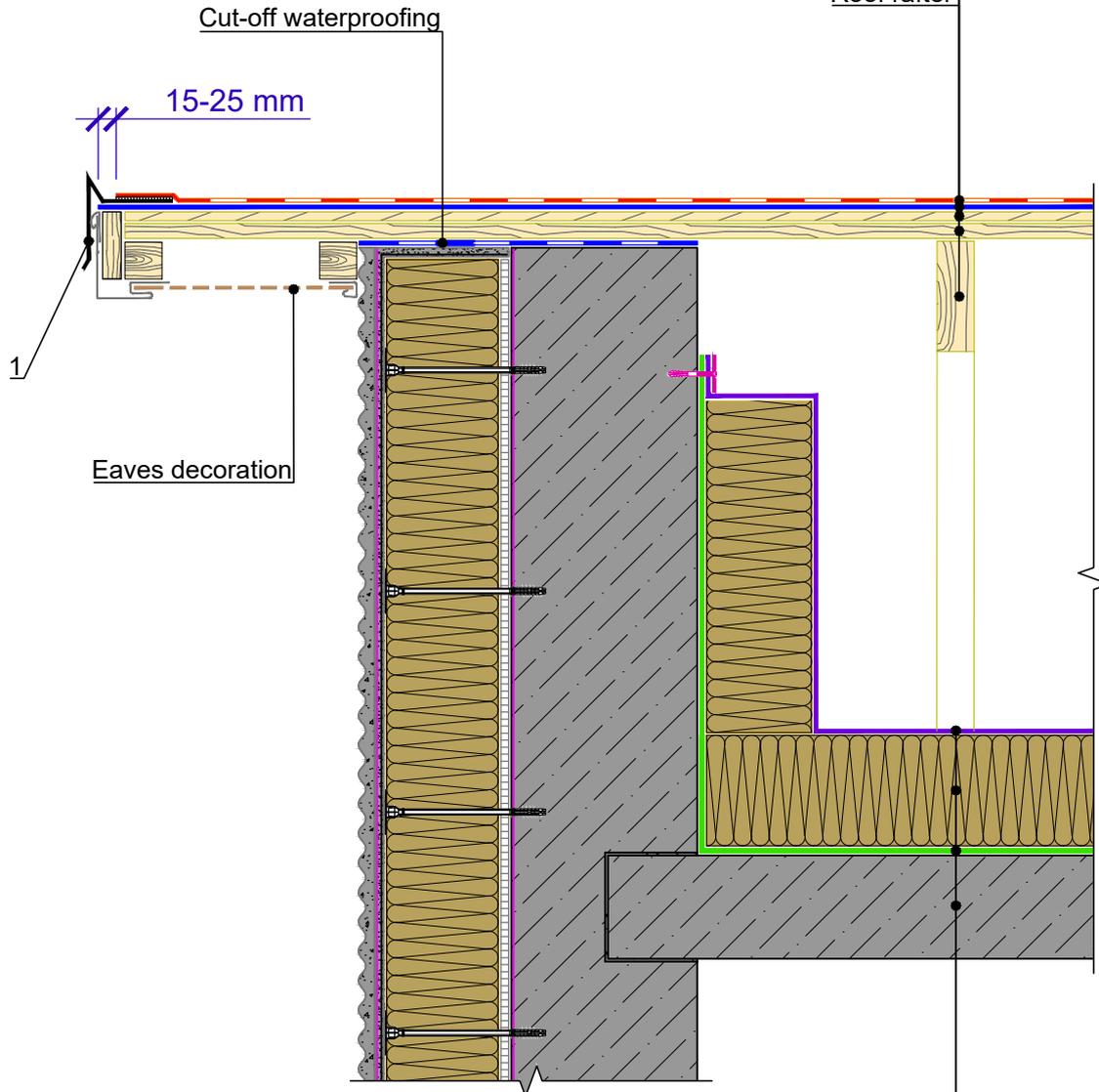
Diffusion membrane ALPHA VENT  
Ceiling joist  
Vapor barrier membrane ALPHA BARRIER 4.0  
Ceiling batten 50x50  
OSB-3 or plywood

**Specification of detail DWG No. 2.3 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note
1	Metal flashing	0.5	pcs.	length 2 m
TN_SHINGLES_CLASSIC_EN				
			DESIGN	APPROVED
			SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 2.3 - 2021.10
Gable. Junction of the roof to the log wall.				REV.



TECHNONICOL roofing shingles  
Underlayment membrane of UNDERLAY series  
Solid base (OSB-3 or plywood)  
Roof battens  
Roof rafter



Diffusion membrane ALPHA VENT  
TECHNONICOL Stone wool  
Vapor barrier membrane ALPHA BARRIER 4.0  
Reinforced concrete

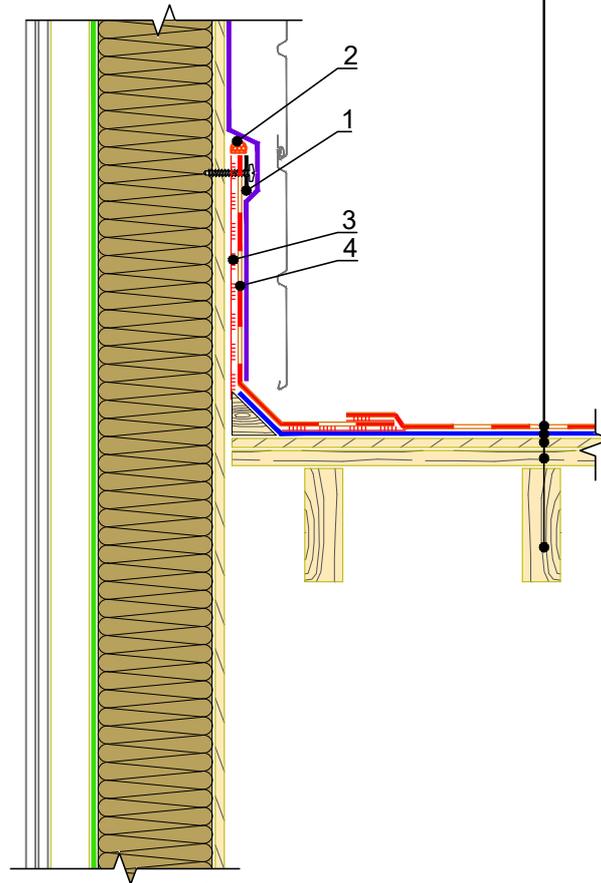
**Specification of detail DWG No. 2.4 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note
1	Metal flashing	0.5	pcs.	length 2 m

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				Gable. Junction of the roof to the facade system TN-Facade Decor.	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 2.4 - 2021.10	REV.



TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter



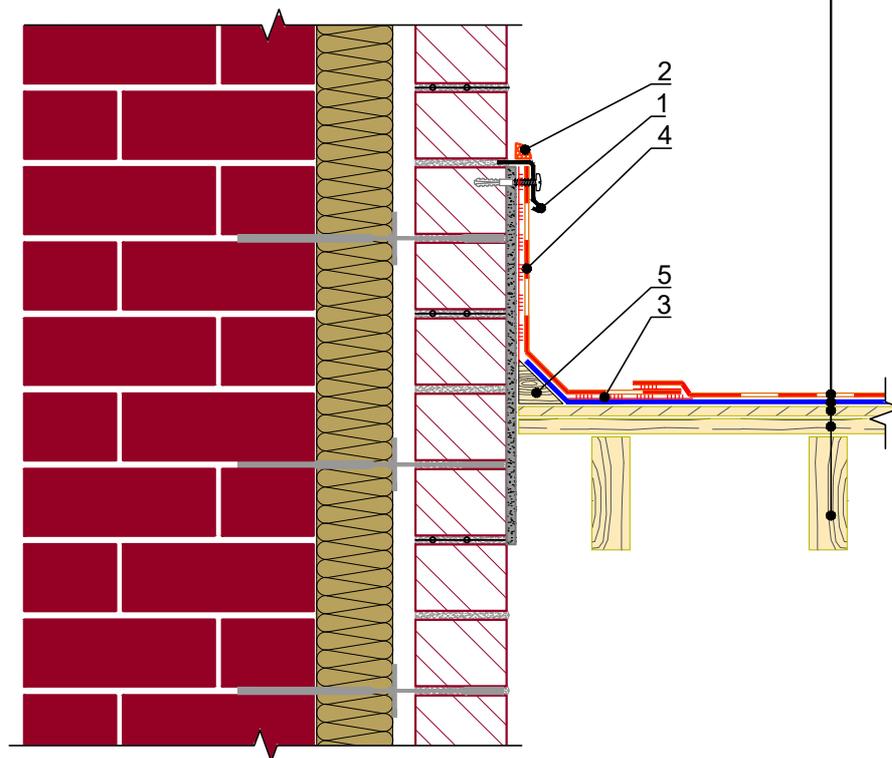
**Specification of detail DWG No. 3.1 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note	
1	Metal flashing	0.5	pcs.	length 2 m	
2	Polyurethane sealant	0.15	kg		
3	Mastic TECHNONICOL FIXER	0.75	kg		
4	Valley roll material	0.5	m <sup>2</sup>		
5	Wood skirting	upon the project	pcs.		
			DESIGN	APPROVED	
			SCALE	DATE	
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 3.1 - 2021.10	REV.

TN\_SHINGLES\_CLASSIC\_EN  
 Side abutment to the wall.  
 Junction of the facade system TN-Facade Eco.



TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter

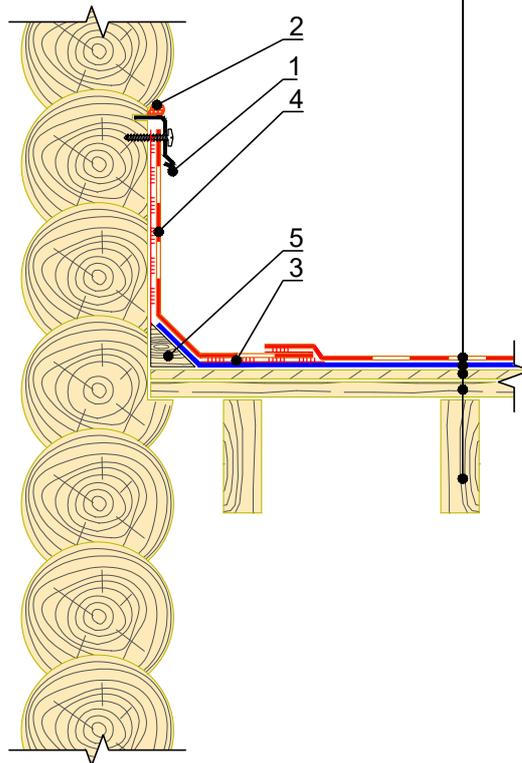


**Specification of detail DWG No. 3.2 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note	
1	Metal flashing	0.5	pcs.	length 2 m	
2	Polyurethane sealant	0.15	kg		
3	Mastic TECHNONICOL FIXER	0.75	kg		
4	Valley roll material	0.5	m <sup>2</sup>		
5	Wood skirting	upon the project	pcs.		
TN_SHINGLES_CLASSIC_EN			DESIGN	APPROVED	
Side abutment to the wall. Junction of the facade system TN-Facade Standard.			SCALE	DATE	
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 3.2 - 2021.10	REV.



TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter



**Specification of detail DWG No. 3.3 - 2021.10**

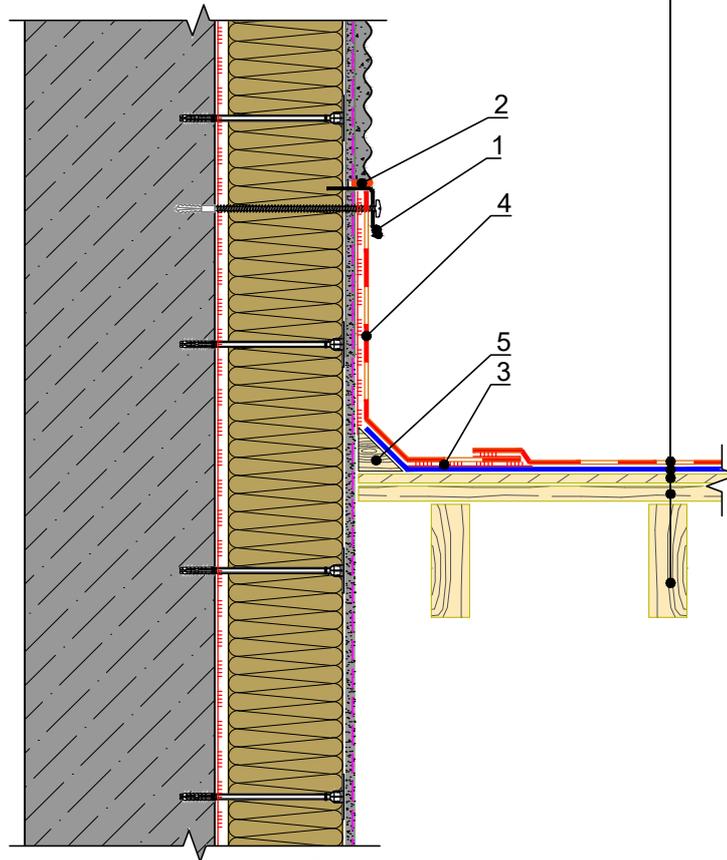
Position	Name	Consumption per one linear meter	Unit	Note	
1	Metal flashing	0.5	pcs.	length 2 m	
2	Polyurethane sealant	0.15	kg		
3	Mastic TECHNONICOL FIXER	0.75	kg		
4	Valley roll material	0.5	m <sup>2</sup>		
5	Wood skirting	upon the project	pcs.		
			DESIGN	APPROVED	
			SCALE	DATE	
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 3.3 - 2021.10	REV.

TN\_SHINGLES\_CLASSIC\_EN

Side abutment to the wall.  
 Junction of the roof to the log wall.

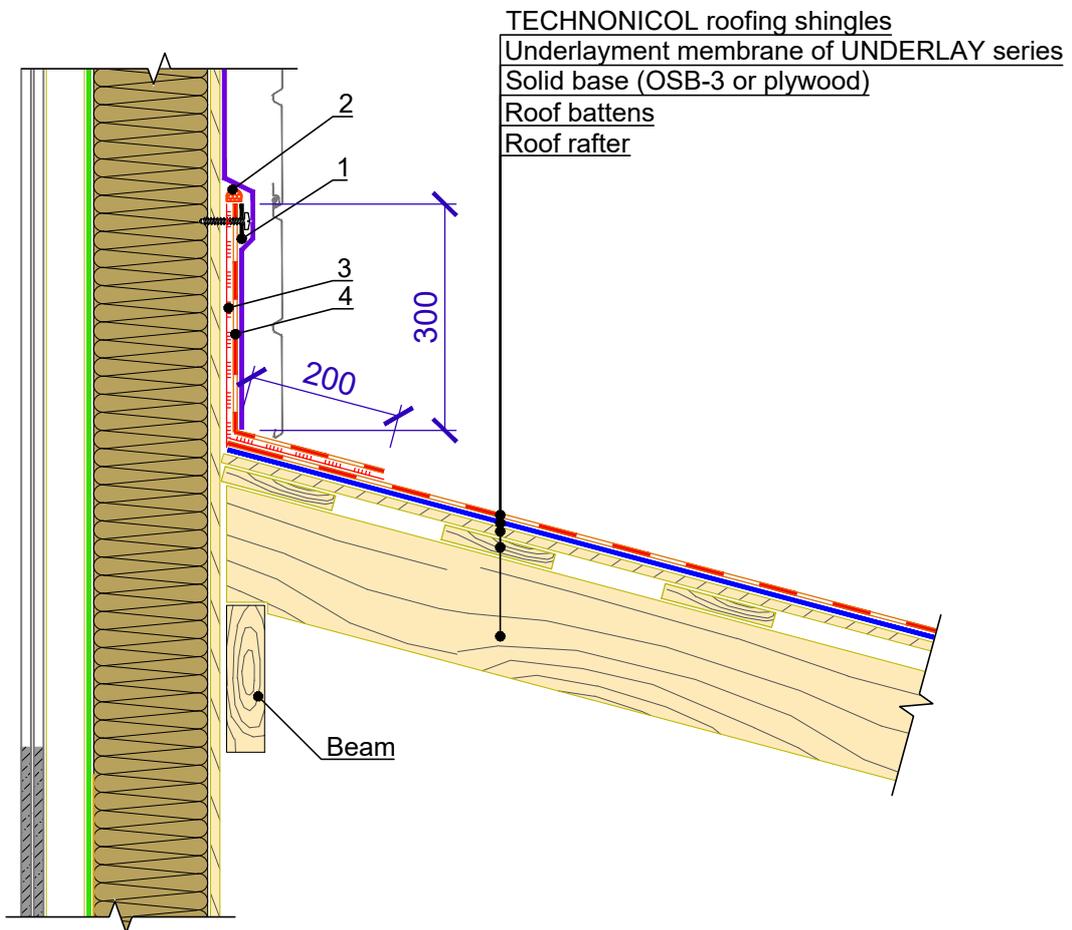


TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter



**Specification of detail DWG No. 3.4 - 2021.10**

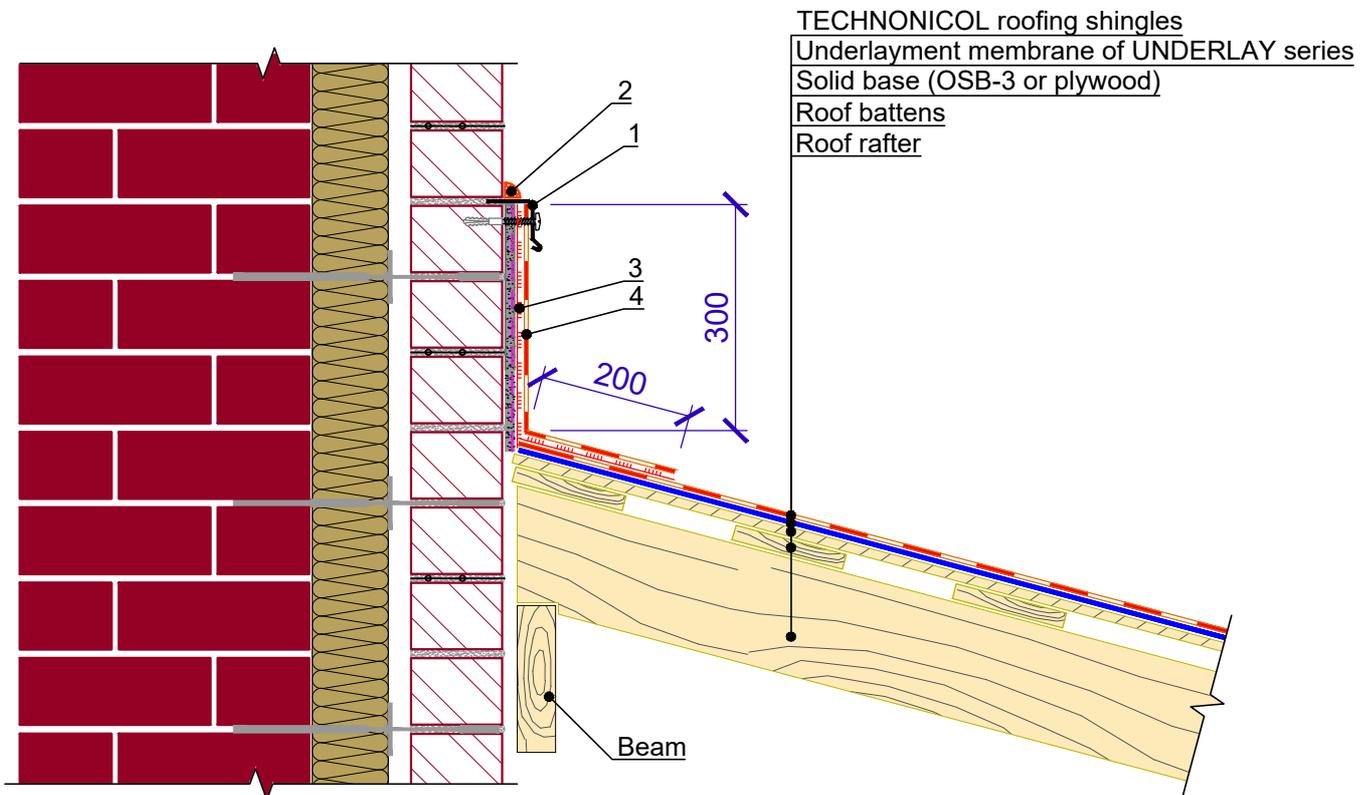
Position	Name	Consumption per one linear meter	Unit	Note
1	Metal flashing	0.5	pcs.	length 2 m
2	Polyurethane sealant	0.15	kg	
3	Mastic TECHNONICOL FIXER	0.75	kg	
4	Valley roll material	0.5	m <sup>2</sup>	
5	Wood skirting	upon the project	pcs.	
			DESIGN	APPROVED
			SCALE	DATE
REV.	DATE	DESCRIPTION	Junction of the facade system TN-Facade Decor.	
		CHECKED	DWG No. 3.4 - 2021.10	REV.



**Specification of detail DWG No. 4.1 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note
1	Metal flashing	0.5	pcs.	length 2 m
2	Polyurethane sealant	0.15	kg	
3	Mastic TECHNOMICOL FIXER	0.75	kg	
4	Valley roll material	0.5	m <sup>2</sup>	

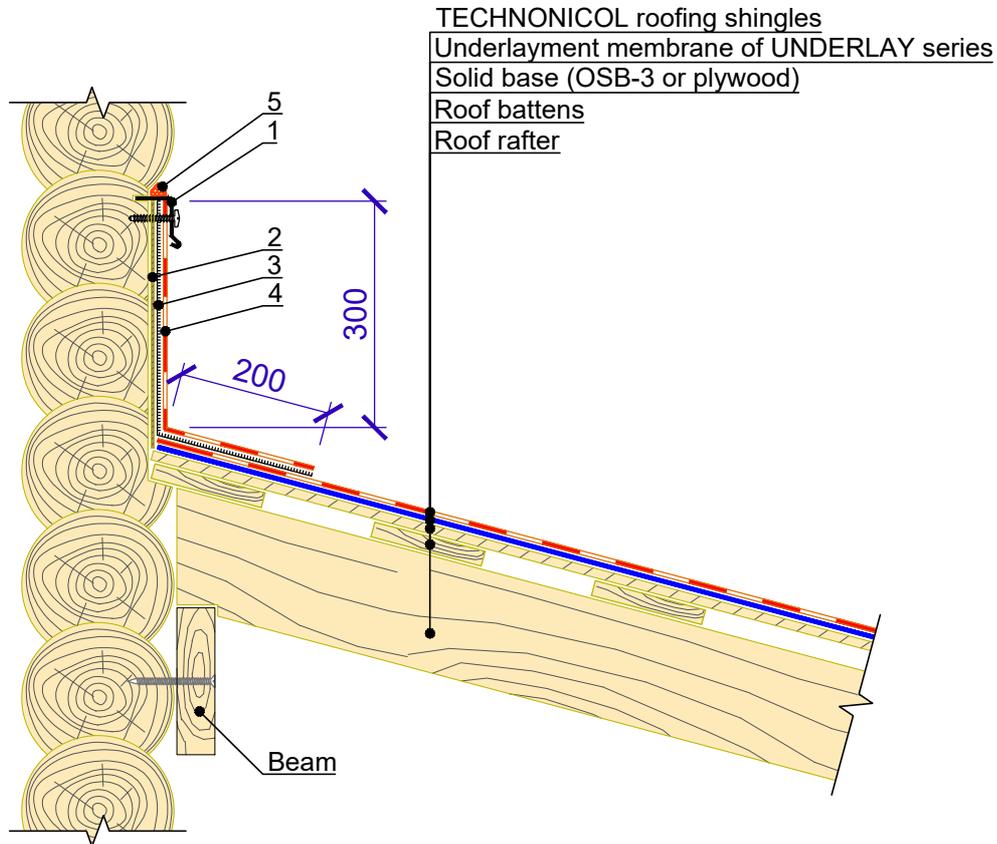
				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				End abutment to the wall. Junction of the facade system TN-Facade Eco.	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 4.1 - 2021.10	REV.



**Specification of detail DWG No. 4.2 - 2021.10**

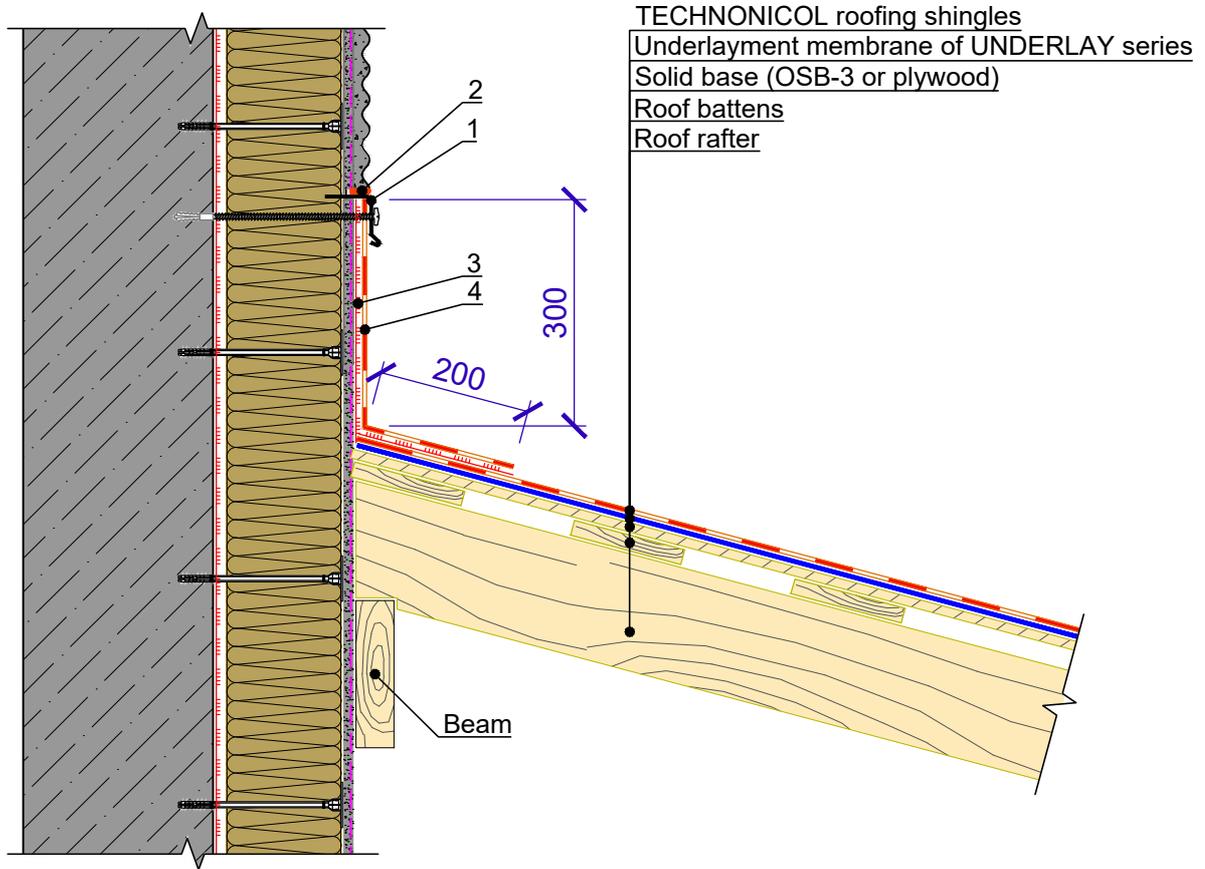
Position	Name	Consumption per one linear meter	Unit	Note
1	Metal flashing	0.5	pcs.	length 2 m
2	Polyurethane sealant	0.15	kg	
3	Mastic TECHNONICOL FIXER	0.75	kg	
4	Valley roll material	0.5	m <sup>2</sup>	

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				End abutment to the wall. Junction of the facade system TN-Facade Standard.	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 4.2 - 2021.10	REV.



**Specification of detail DWG No. 4.3 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note	
1	Metal flashing	0.5	pcs.	length 2 m	
2	Plywood 4 mm	0.3	m <sup>2</sup>		
3	Mastic TECHNONICOL FIXER	0.75	kg		
4	Valley roll material	0.5	m <sup>2</sup>		
5	Polyurethane sealant	0.15	kg		
TN_SHINGLES_CLASSIC_EN				DESIGN	APPROVED
End abutment to the wall. Junction of the roof to the log wall.				SCALE	DATE
				DWG No. 4.3 - 2021.10	REV.
REV.	DATE	DESCRIPTION	CHECKED		



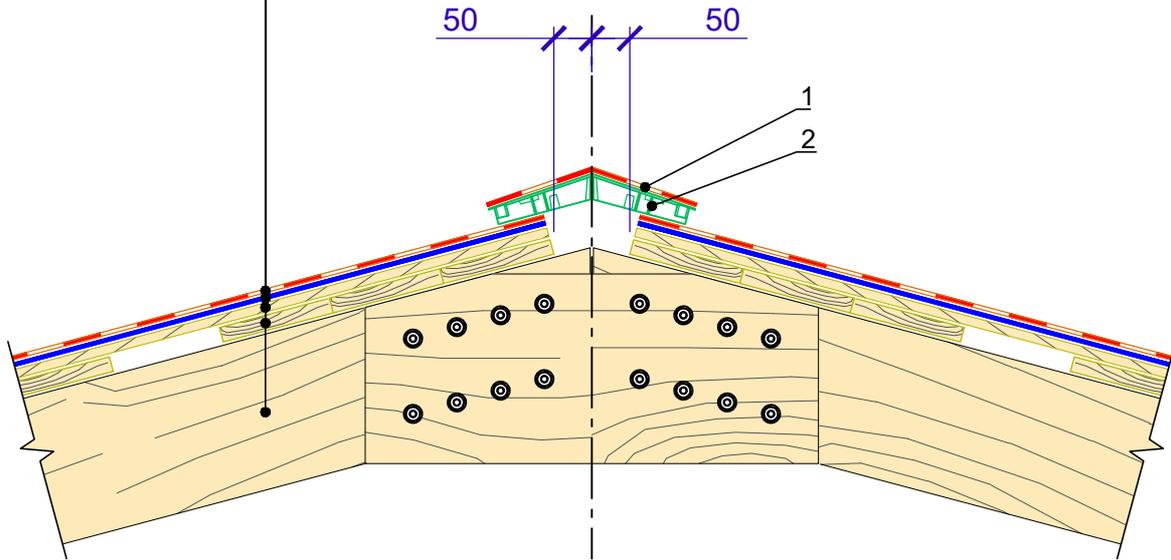
**Specification of detail DWG No. 4.4 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note
1	Metal flashing	0.5	pcs.	length 2 m
2	Polyurethane sealant	0.15	kg	
3	Mastic TECHNONICOL FIXER	0.75	kg	
4	Valley roll material	0.5	m <sup>2</sup>	

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				End abutment to the wall. Junction of the facade system TN-Facade Decor.	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 4.4 - 2021.10	REV.



TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter

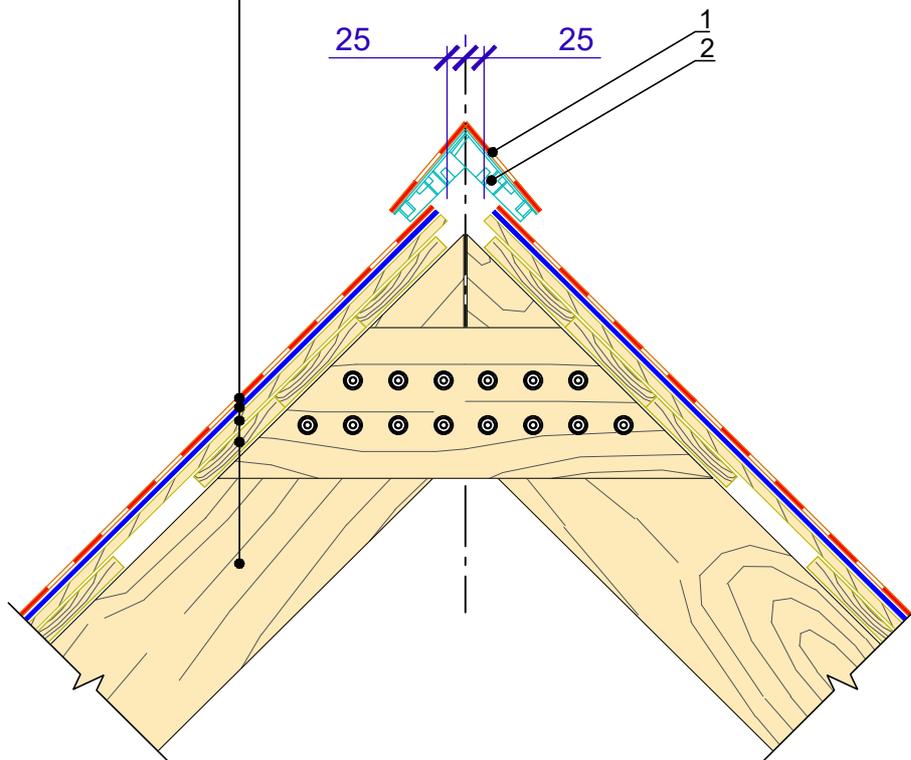


**Specification of detail DWG No. 5.1 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note	
1	Hip&ridge shingles	0.25	m <sup>2</sup>		
2	Ridge vent	1.7	pcs.	length 0.61 m	
TN_SHINGLES_CLASSIC_EN				DESIGN	APPROVED
TECHNONICOL prefabricated ventilation ridge profile. The roof slope from 12 to 18 degrees.				SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 5.1 - 2021.10	REV.



TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter

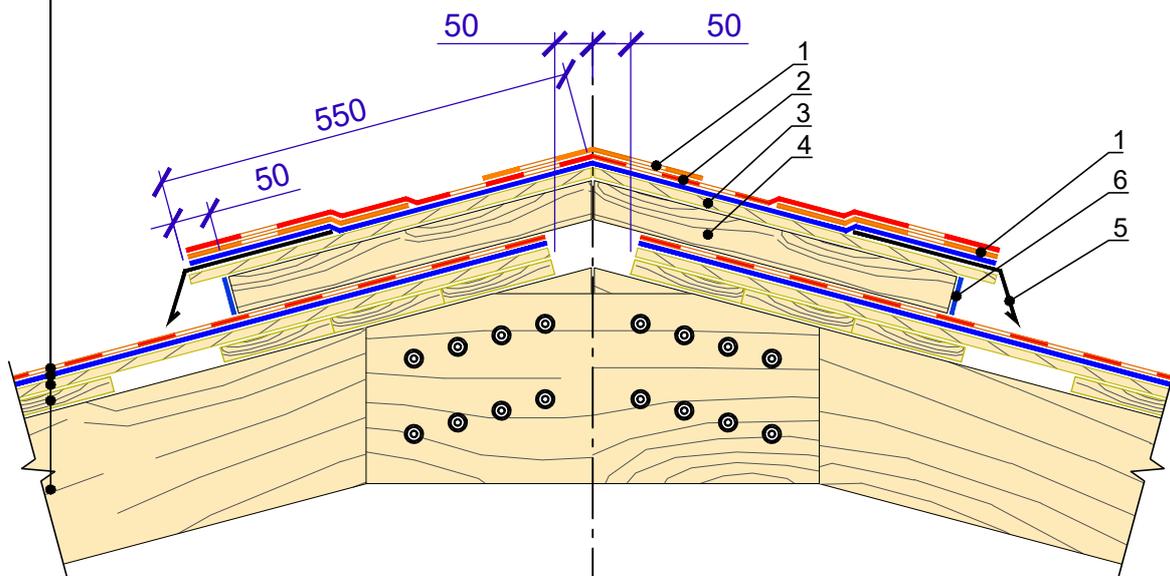


**Specification of detail DWG No. 5.2 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note	
1	Hip&ridge shingles	0.25	m <sup>2</sup>		
2	Ridge vent	1.7	pcs.	length 0.61 m	
TN_SHINGLES_CLASSIC_EN				DESIGN	APPROVED
TECHNONICOL prefabricated ventilation ridge profile. The roof slope more than 18 degrees.				SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 5.2 - 2021.10	REV.



TECHNONICOL roofing shingles  
Underlayment membrane of UNDERLAY series  
Solid base (OSB-3 or plywood)  
Roof battens  
Roof rafter



**Specification of detail DWG No. 5.3 - 2021.10**

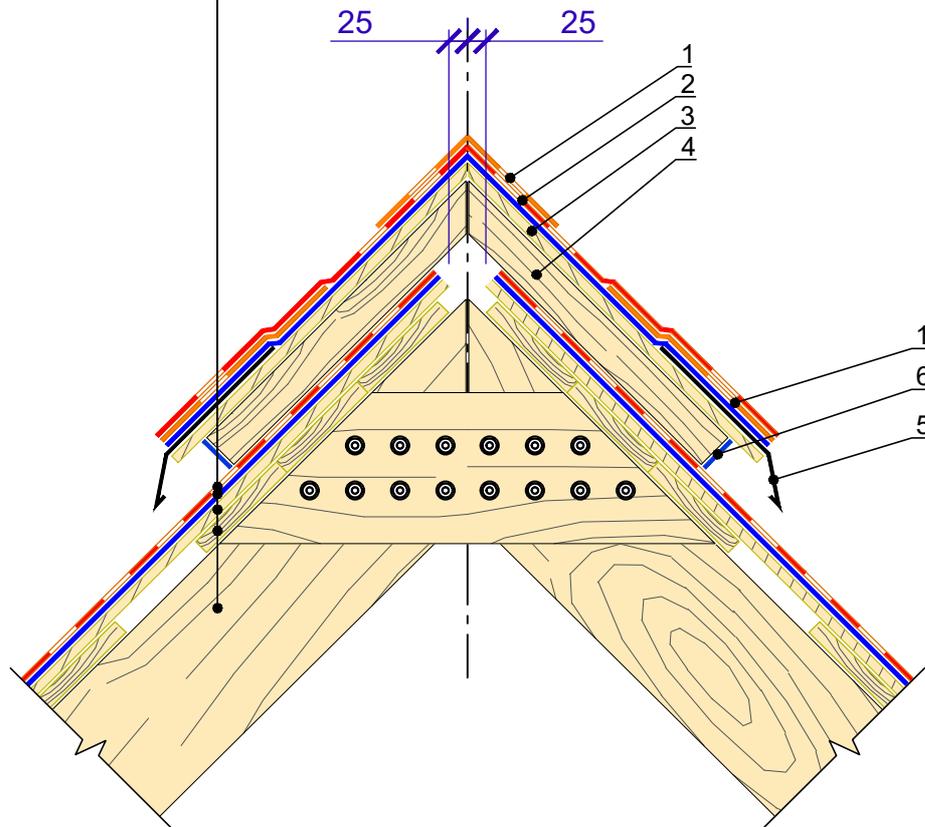
Position	Name	Consumption per one linear meter	Unit	Note	
1	Hip&ridge shingles	0.25	m <sup>2</sup>		
2	TECHNONICOL roofing shingles	upon the project	pcs.		
3	Solid base (OSB-3 or plywood)	1.1	m <sup>2</sup>		
4	Beam 50x50	upon the project	pcs.	length 0.5 m	
5	Drip trim	0.5	pcs.	length 2 m	
6	Mosquito net	0.2	pcs.	length 5 m	
			DESIGN	APPROVED	
			SCALE	DATE	
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 5.3 - 2021.10	REV.

TN\_SHINGLES\_CLASSIC\_EN

Ventilation ridge. The roof slope from 12 to 18 degrees.



TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter

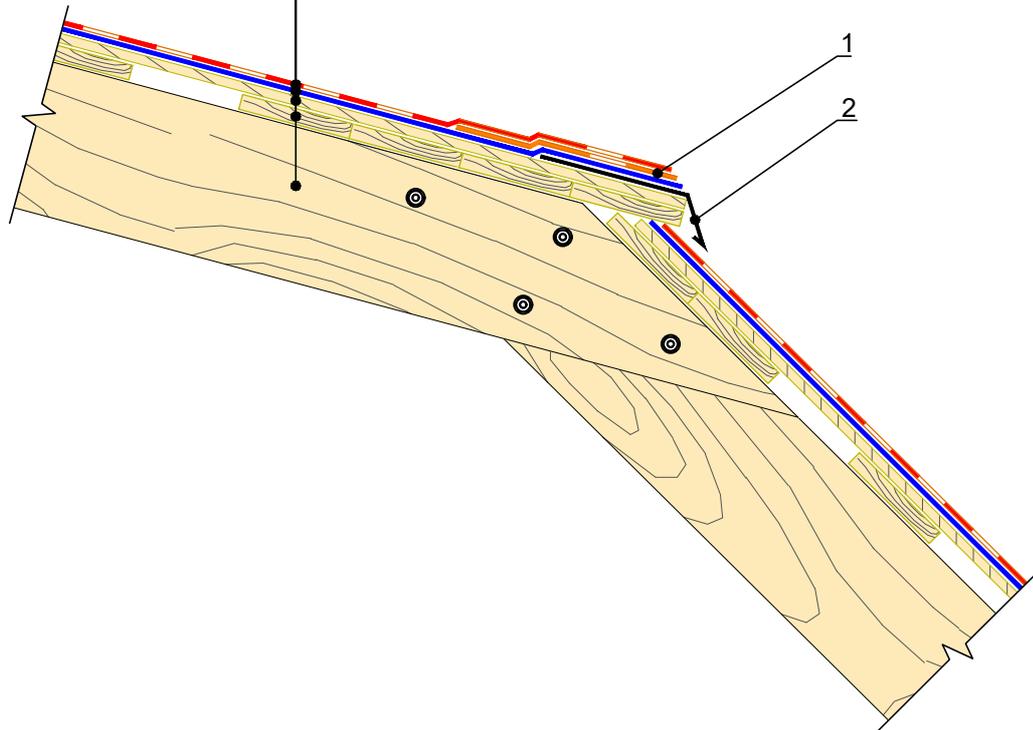


**Specification of detail DWG No. 5.4 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note
1	Hip&ridge shingles	0.25	m <sup>2</sup>	
2	TECHNONICOL roofing shingles	upon the project	pcs.	
3	Solid base (OSB-3 or plywood)	1.1	m <sup>2</sup>	
4	Beam 50x50	upon the project	pcs.	length 0.5 m
5	Drip trim	0.5	pcs.	length 2 m
6	Mosquito net	0.2	pcs.	length 5 m
			DESIGN	APPROVED
			SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	REV.
			TN_SHINGLES_CLASSIC_EN Ventilation ridge. The roof slope more than 18 degrees. DWG No. 5.4 - 2021.10	



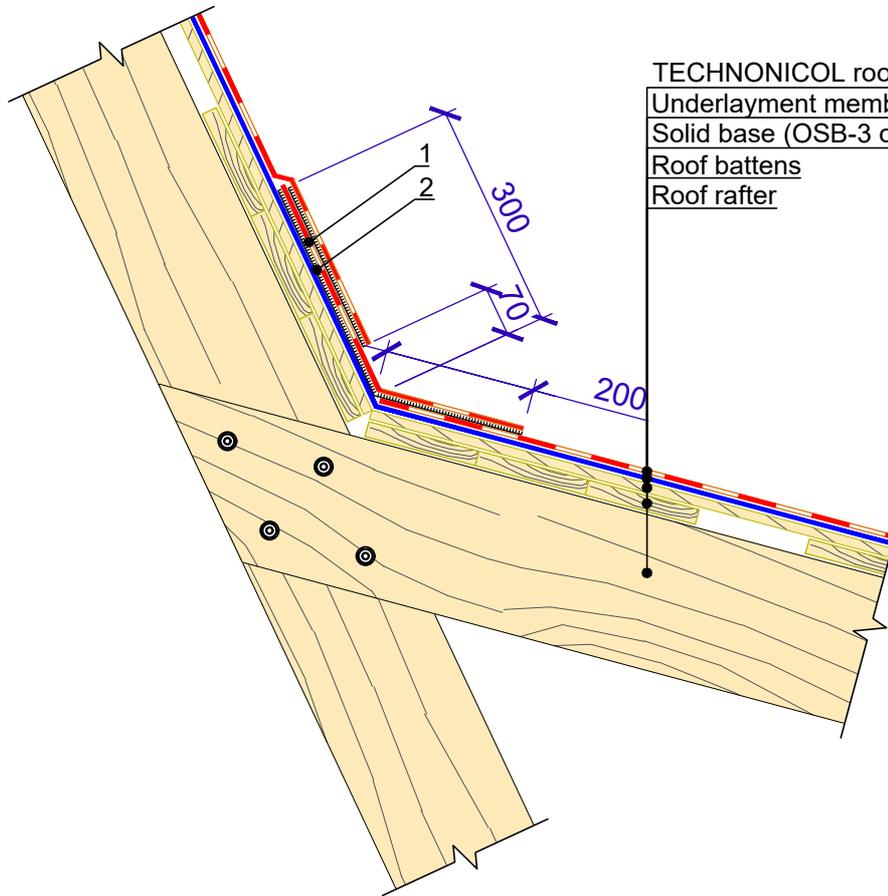
TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter



**Specification of detail DWG No. 6.1 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note
1	Hip&ridge shingles	0.25	m <sup>2</sup>	
2	Drip trim	0.5	pcs.	length 2 m

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				External roof bend	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 6.1 - 2021.10	REV.



- TECHNONICOL roofing shingles
- Underlayment membrane of UNDERLAY series
- Solid base (OSB-3 or plywood)
- Roof battens
- Roof rafter

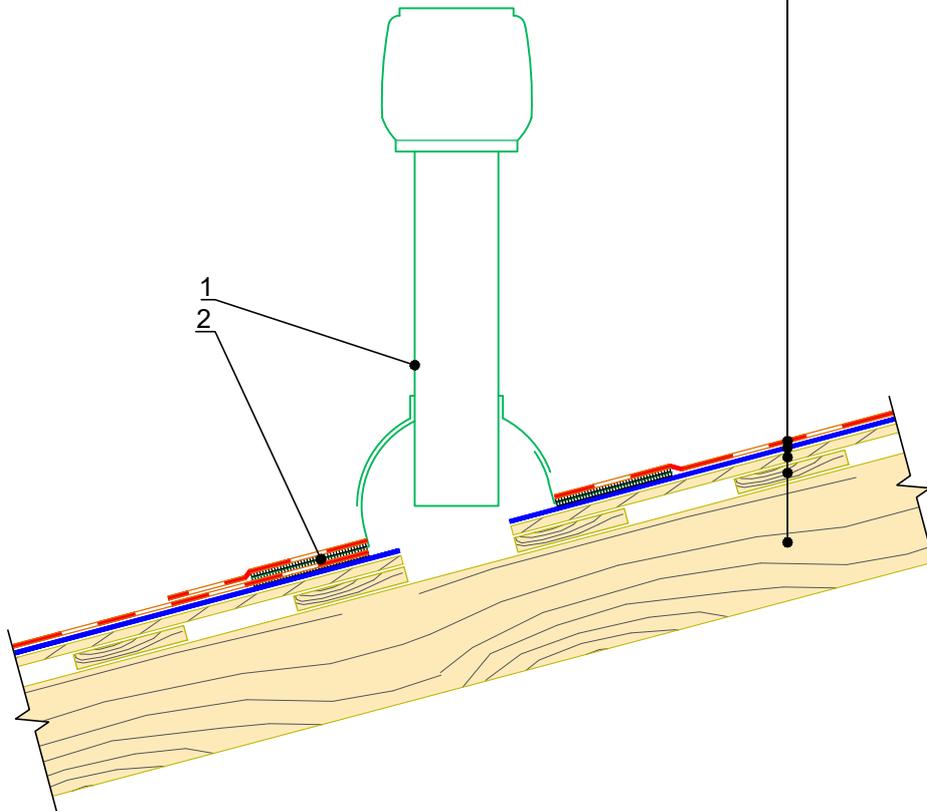
**Specification of detail DWG No. 6.2 - 2021.10**

Position	Name	Consumption per one linear meter	Unit	Note
1	Valley roll material	0.5	m <sup>2</sup>	
2	Mastic TECHNONICOL FIXER	0.75	kg	

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				Internal roof bend	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 6.2 - 2021.10	REV.



TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter



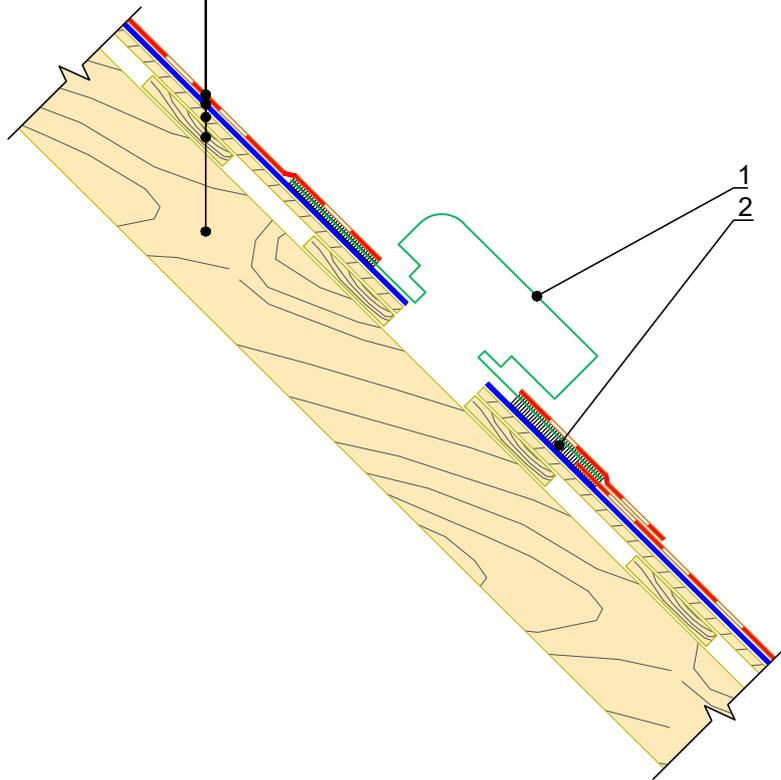
**Specification of detail DWG No. 7.1 - 2021.10**

Position	Name	Consumption	Unit	Note
1	Ventilation component PILOT	1	pcs.	
2	Mastic TECHNONICOL FIXER	0.75	kg	

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				TECHNONICOL PILOT roof aerator	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 7.1 - 2021.10	REV.



TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter



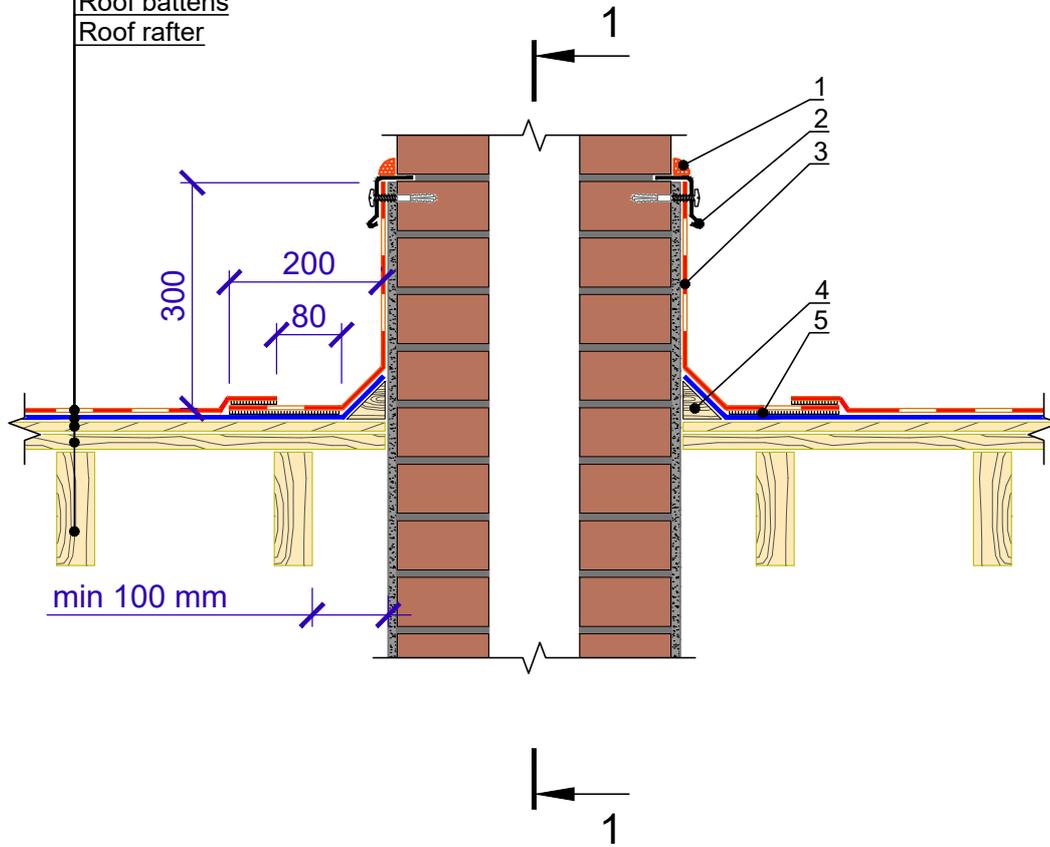
**Specification of detail DWG No. 7.2 - 2021.10**

Position	Name	Consumption	Unit	Note
1	Ventilation component KTV	1	pcs.	
2	Mastic TECHNONICOL FIXER	0.75	kg	

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				TECHNONICOL KTV roof vent	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 7.2 - 2021.10	REV.



TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter

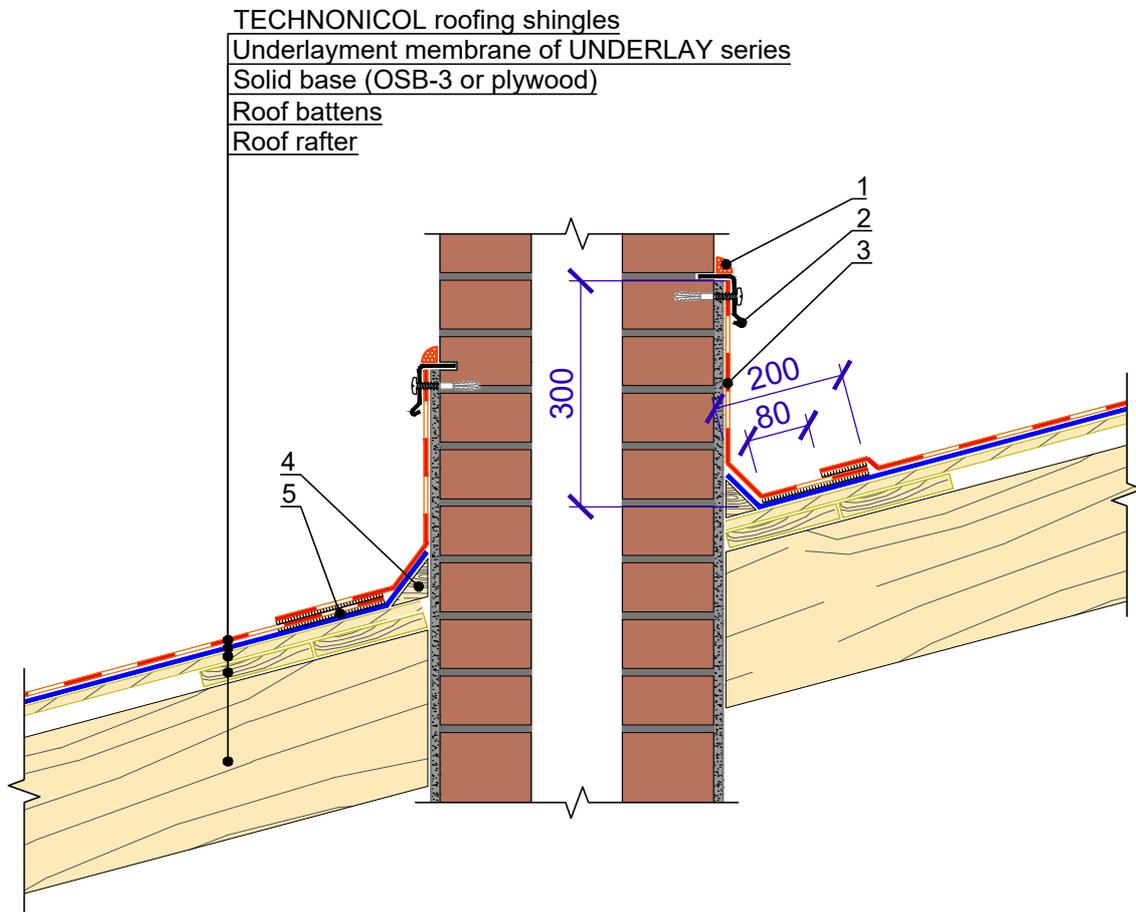


**Specification of detail DWG No. 8.1 - 2021.10**

Position	Name	Consumption	Unit	Note	
1	Polyurethane sealant	0.15	kg		
2	Metal flashing	0.5	pcs.	length 2 m	
3	Valley roll material	0.5	m <sup>2</sup>		
4	Wood skirting	upon the project	pcs.		
5	Mastic TECHNONICOL FIXER	0.75	kg		
TN_SHINGLES_CLASSIC_EN				DESIGN	APPROVED
Junction to the chimney. The roof slope from 12 to 18 degrees				SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	DWG No. 8.1 - 2021.10	REV.

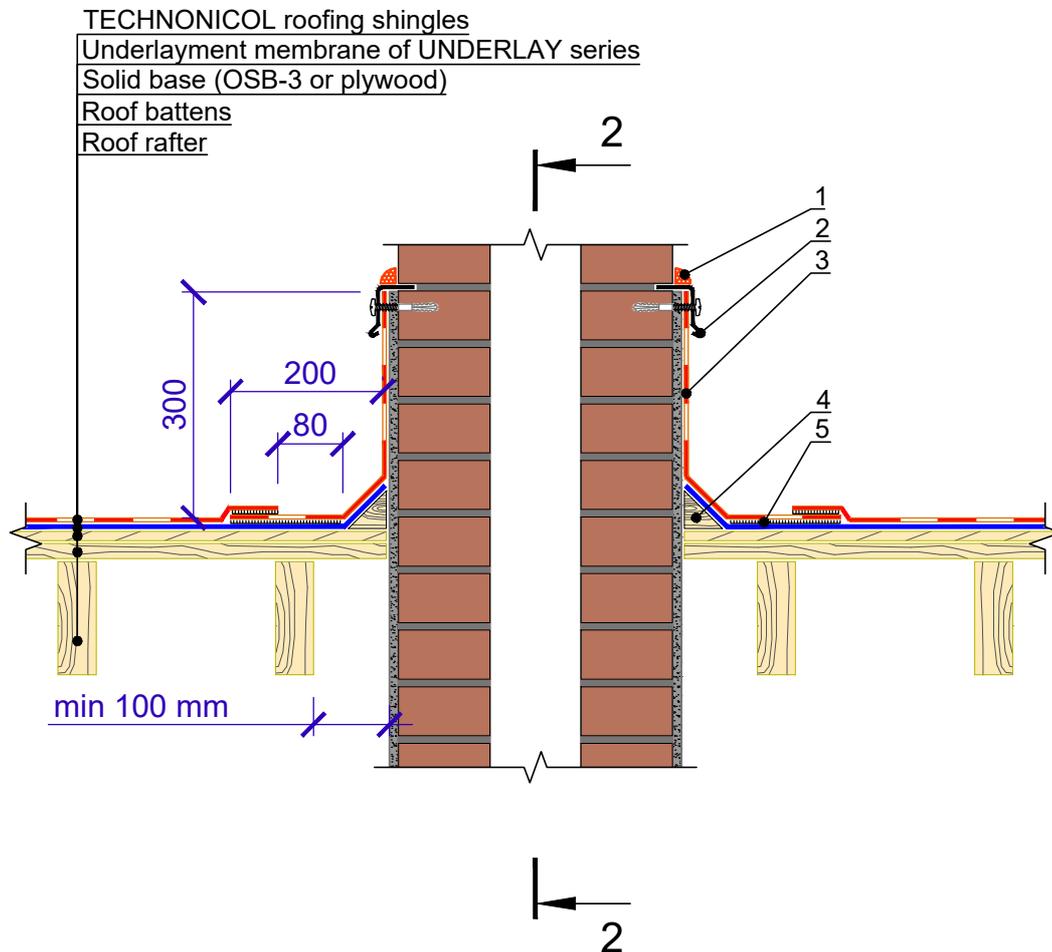


1 - 1



**Specification of detail DWG No. 8.2 - 2021.10**

Position	Name	Consumption	Unit	Note	
1	Polyurethane sealant	0.15	kg		
2	Metal flashing	0.5	pcs.	length 2 m	
3	Valley roll material	0.5	m <sup>2</sup>		
4	Wood skirting	upon the project	pcs.		
5	Mastic TECHNONICOL FIXER	0.75	kg		
				DESIGN	APPROVED
				SCALE	DATE
				DWG No. 8.2 - 2021.10	REV.
REV.	DATE	DESCRIPTION	CHECKED	TN_SHINGLES_CLASSIC_EN  Junction to the chimney. The roof slope from 12 to 18 degrees. Section 1-1	



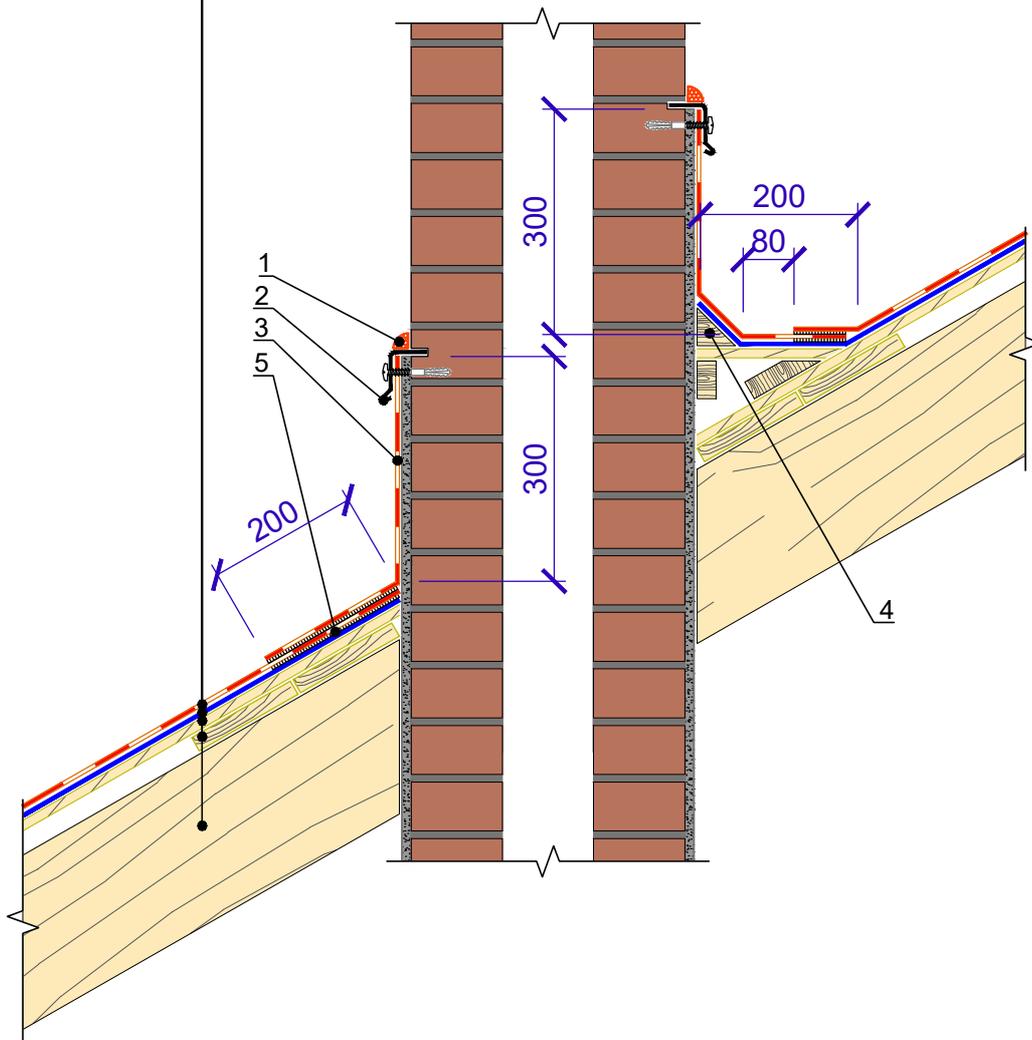
**Specification of detail DWG No. 8.3 - 2021.10**

Position	Name	Consumption	Unit	Note	
1	Polyurethane sealant	0.15	kg		
2	Metal flashing	0.5	pcs.	length 2 m	
3	Valley roll material	0.5	m <sup>2</sup>		
4	Wood skirting	upon the project	pcs.		
5	Mastic TECHNONICOL FIXER	0.75	kg		
				DESIGN	APPROVED
				SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED	Junction to the chimney. The roof slope more than 18 degrees	
				DWG No. 8.3 - 2021.10	REV.



2 - 2

TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter

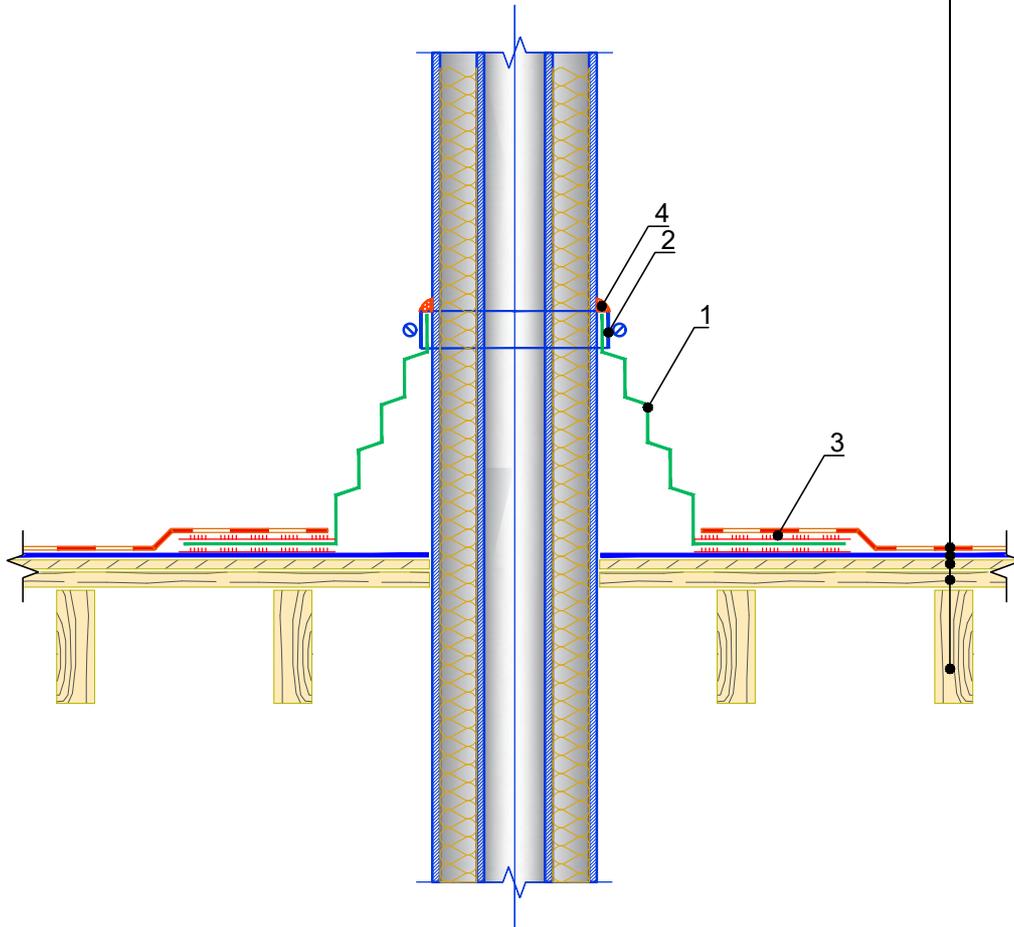


**Specification of detail DWG No. 8.4 - 2021.10**

Position	Name	Consumption	Unit	Note	
1	Polyurethane sealant	0.15	kg		
2	Metal flashing	0.5	pcs.	length 2 m	
3	Valley roll material	0.5	m <sup>2</sup>		
4	Wood skirting	upon the project	pcs.		
5	Mastic TECHNONICOL FIXER	0.75	kg		
TN_SHINGLES_CLASSIC_EN				DESIGN	APPROVED
Junction to the chimney. The roof slope more than 18 degrees. Section 2-2				SCALE	DATE
				DWG No. 8.4 - 2021.10	REV.
REV.	DATE	DESCRIPTION	CHECKED		



TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter



**Specification of detail DWG No. 8.5 - 2021.10**

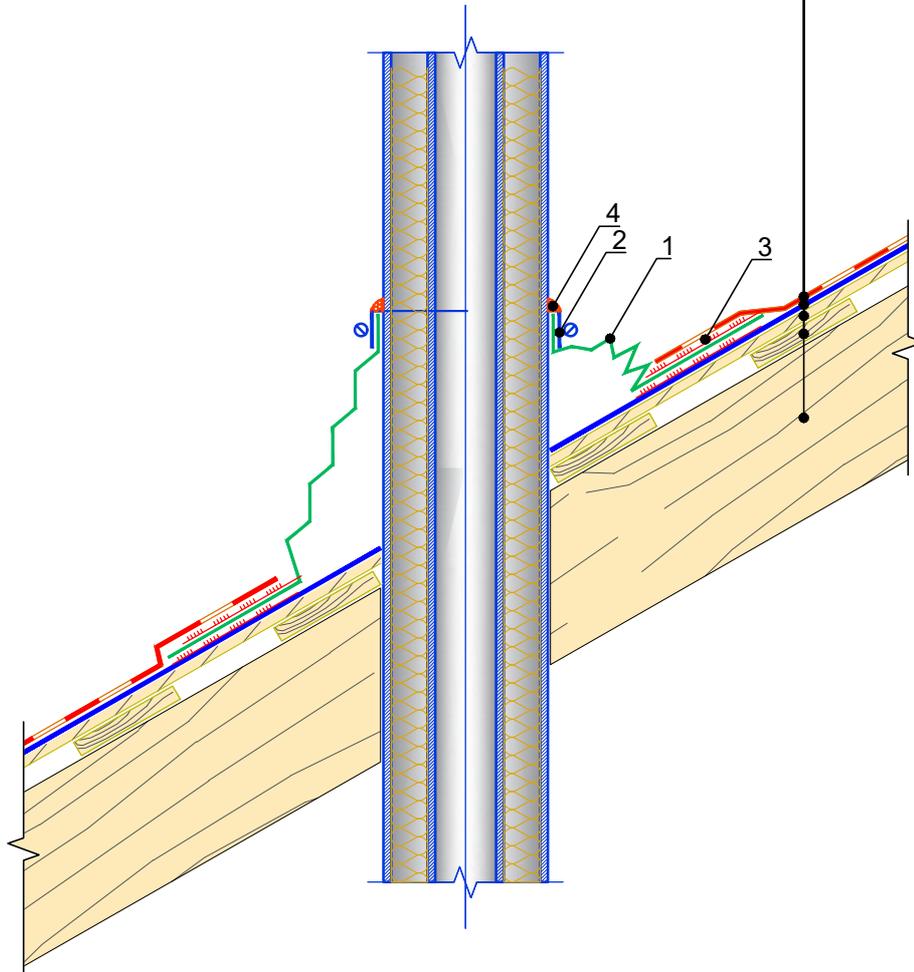
Position	Name	Consumption	Unit	Note
1	Rubber collar	1	pcs.	
2	Clamp	1	pcs.	
3	Mastic TECHNONICOL FIXER	0.75	kg	
4	Polyurethane sealant	0.15	kg	

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				Junction to the pipe penetration with the use of rubber collar. The roof slope more than 18 degrees.	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 8.5 - 2021.10	REV.



1 - 1

TECHNONICOL roofing shingles  
 Underlayment membrane of UNDERLAY series  
 Solid base (OSB-3 or plywood)  
 Roof battens  
 Roof rafter



**Specification of detail DWG No. 8.6 - 2021.10**

Position	Name	Consumption	Unit	Note
1	Rubber collar	1	pcs.	
2	Clamp	1	pcs.	
3	Mastic TECHNONICOL FIXER	0.75	kg	
4	Polyurethane sealant	0.15	kg	

				TN_SHINGLES_CLASSIC_EN	DESIGN	APPROVED
				Junction to the pipe penetration with the use of rubber collar. The roof slope more than 18 degrees. Section 1-1	SCALE	DATE
REV.	DATE	DESCRIPTION	CHECKED		DWG No. 8.6 - 2021.10	REV.