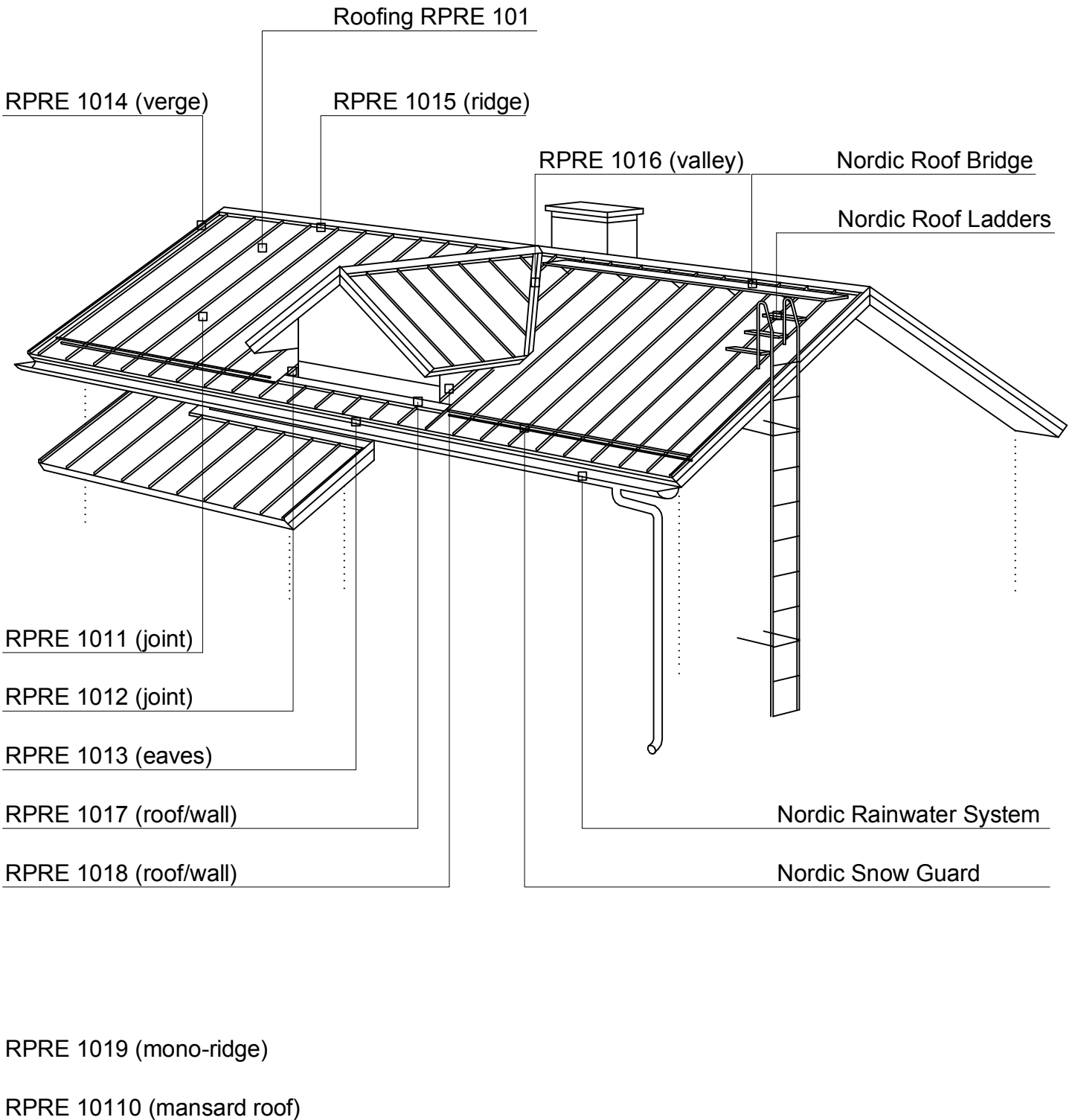


LUVATA

Subject

NSR PREFAB 100 NSR PRE101 DETAIL LINKS

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE101_3D
Scale	Project		Filename NSR detail links.dwg



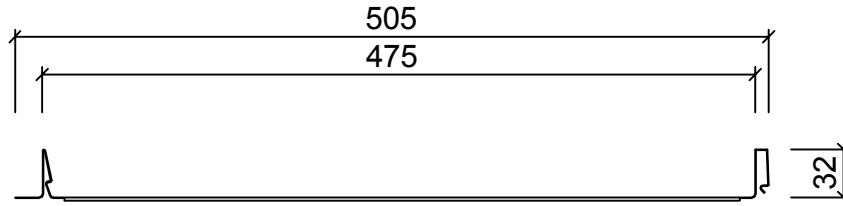


Subject

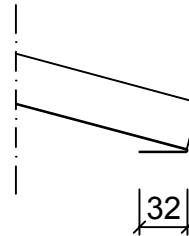
NSR PREFAB 100
NSR PRE101
DIMENSIONAL DRAWING

Date	Rev.	Project no.	Dwg-no. RPRE101
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE101.dwg	

THICKNESS (t) = 0,6mm
MIN. LENGTH = 600mm
MAX. LENGTH = 8000mm
EFFECTIVE WIDTH = 475mm
WEIGHT=7,03 kg/m²



EAVES DETAIL

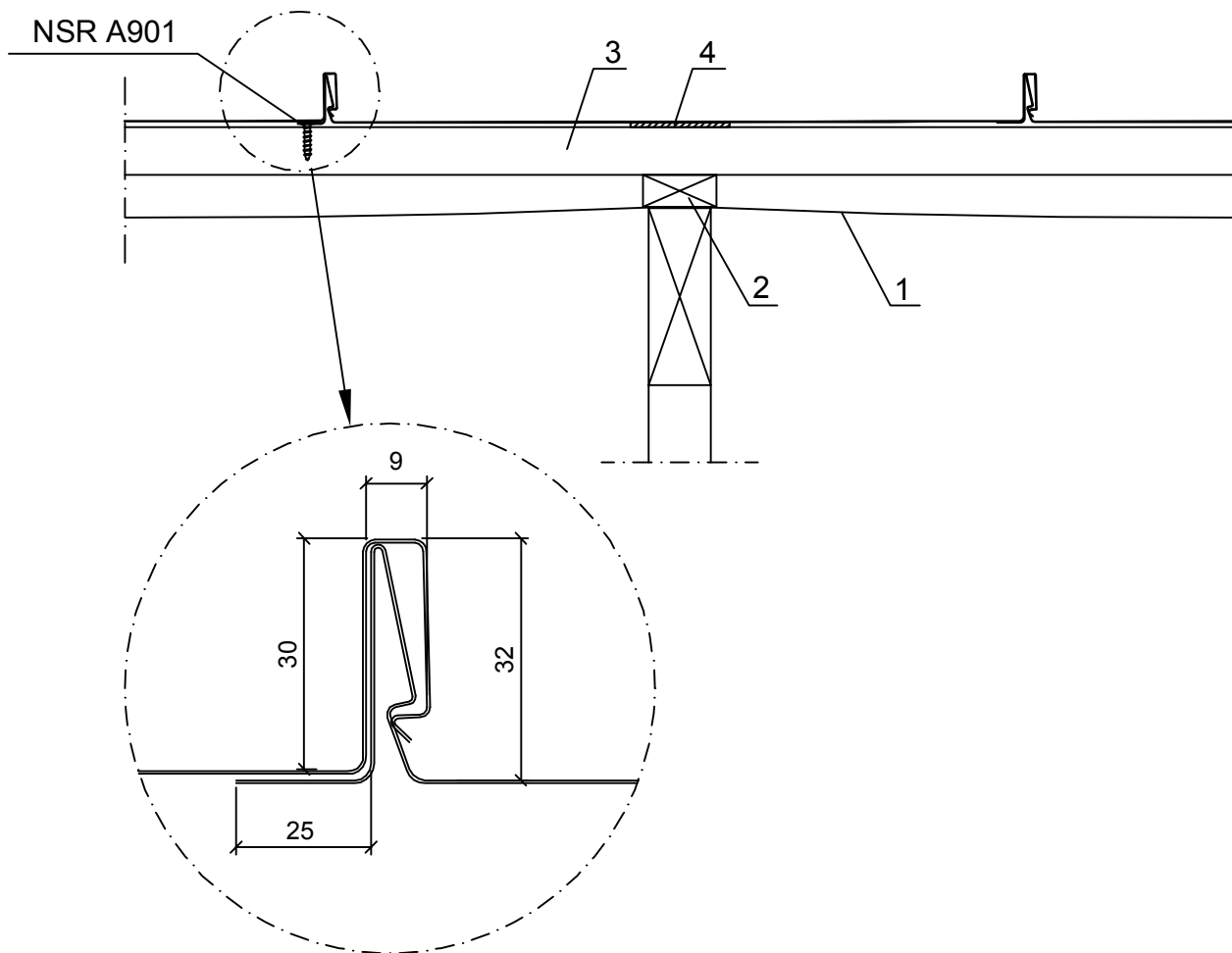


BATTENS c/c max. 300 mm

Extra battens at eaves and ridge acc. to the structural design

Date	Rev.	Project no.	Dwg-no. RPRE1011
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE101.dwg	

JOINT DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. SEALING STRIP FOR SOUND INSULATION

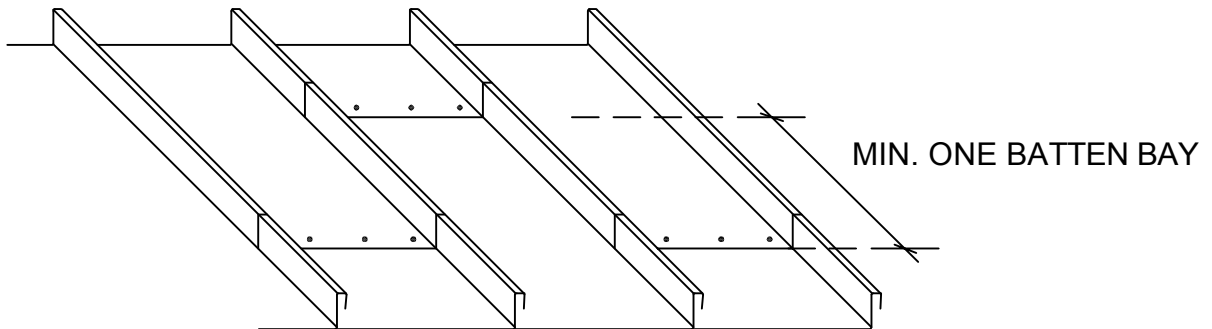
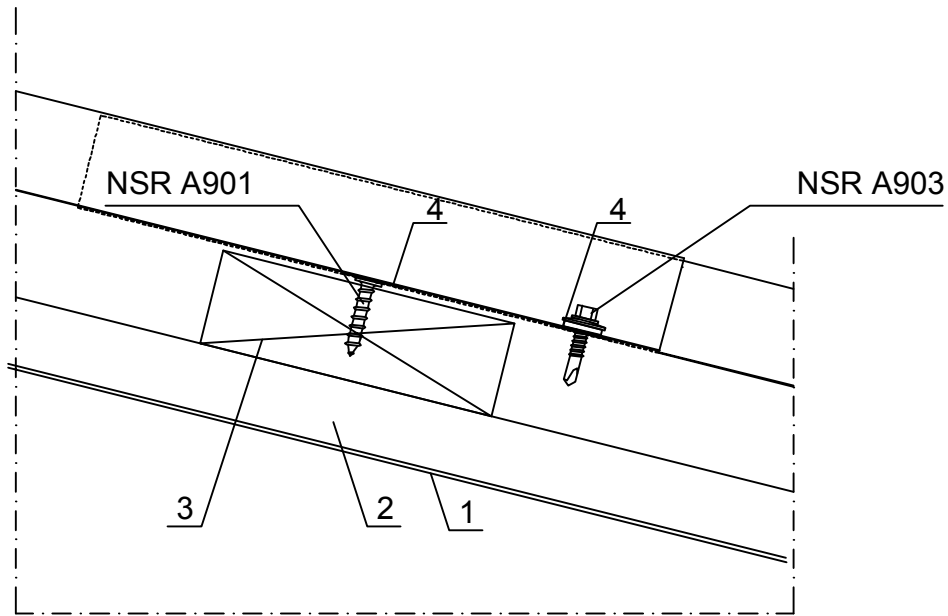


Subject

NSR PREFAB 100
NSR PRE101
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1012
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE101.dwg	

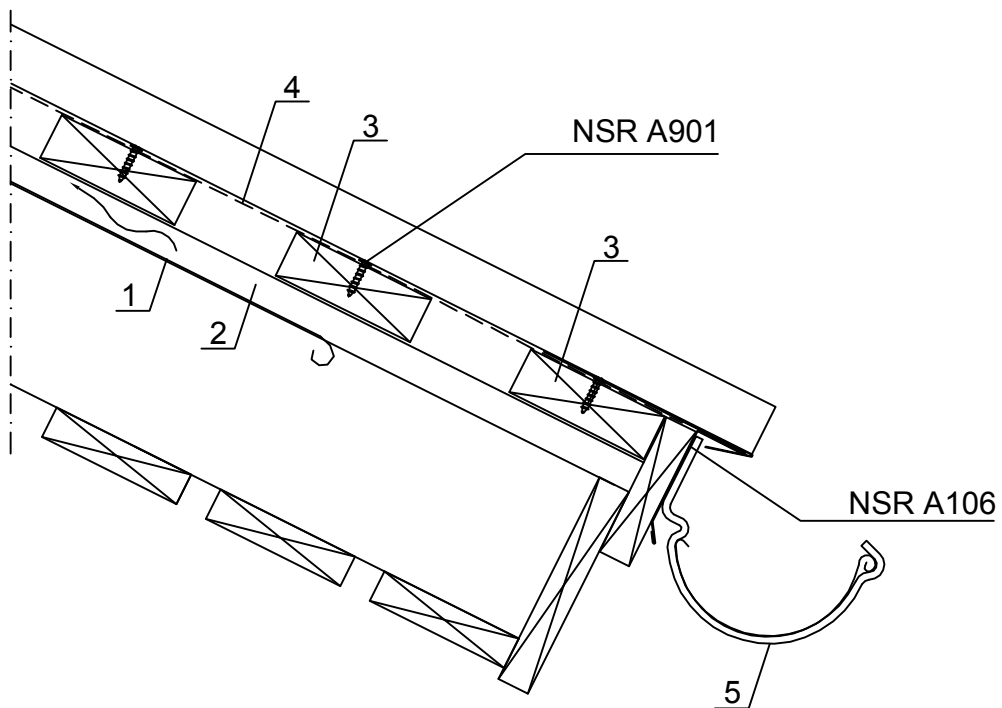
HORIZONTAL JOINT (EXTENSION)



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. ELASTIC SEALING COMPOUND

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1013-1
Scale 1:5	Project		Filename RPRE101.dwg

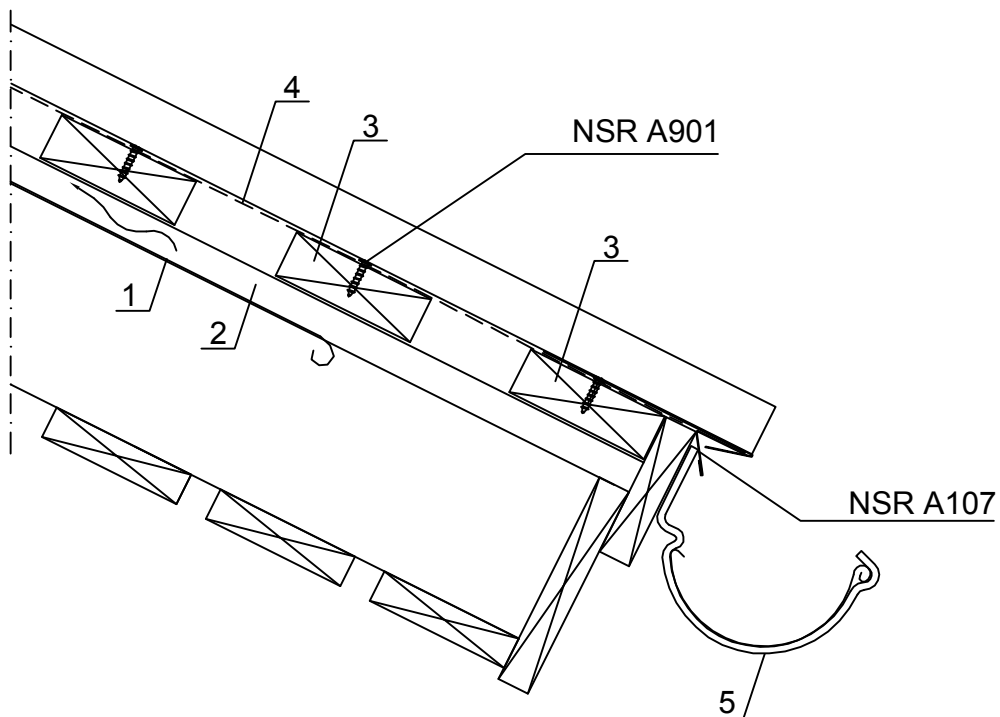
EAVES DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
(EXTRA BATTENS AT EAVES)
4. SEALING STRIP FOR SOUND INSULATION
5. NORDIC RAINWATER SYSTEM

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1013-2
Scale 1:5	Project		Filename RPRE101.dwg

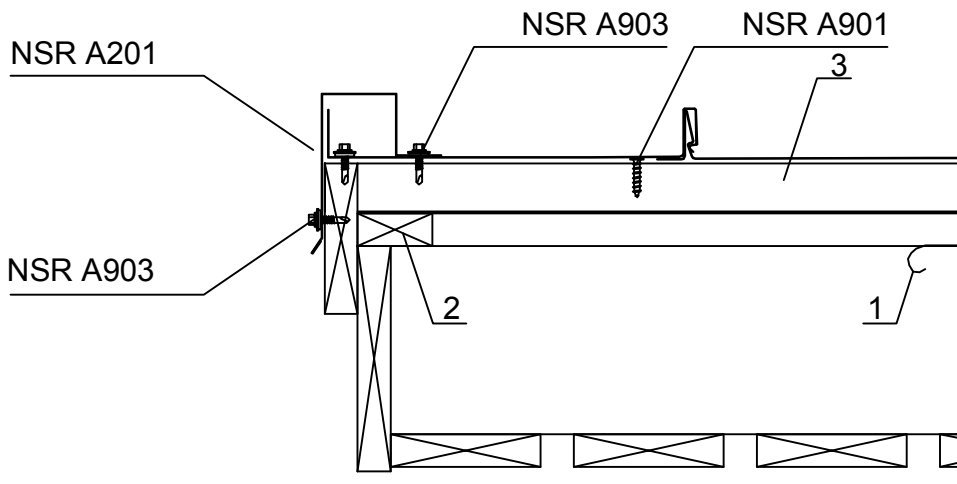
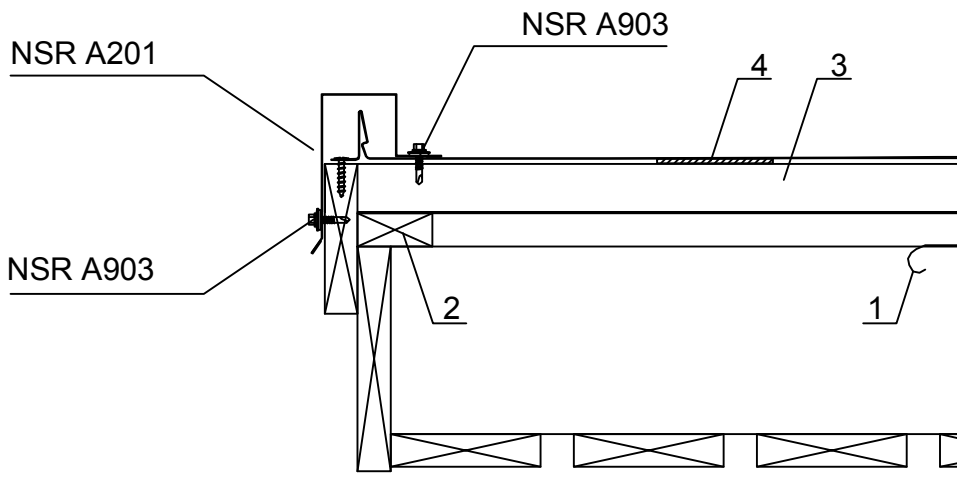
EAVES DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
(EXTRA BATTENS AT EAVES)
4. SEALING STRIP FOR SOUND INSULATION
5. NORDIC RAINWATER SYSTEM

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1014
Scale 1:5	Project		Filename RPRE101.dwg

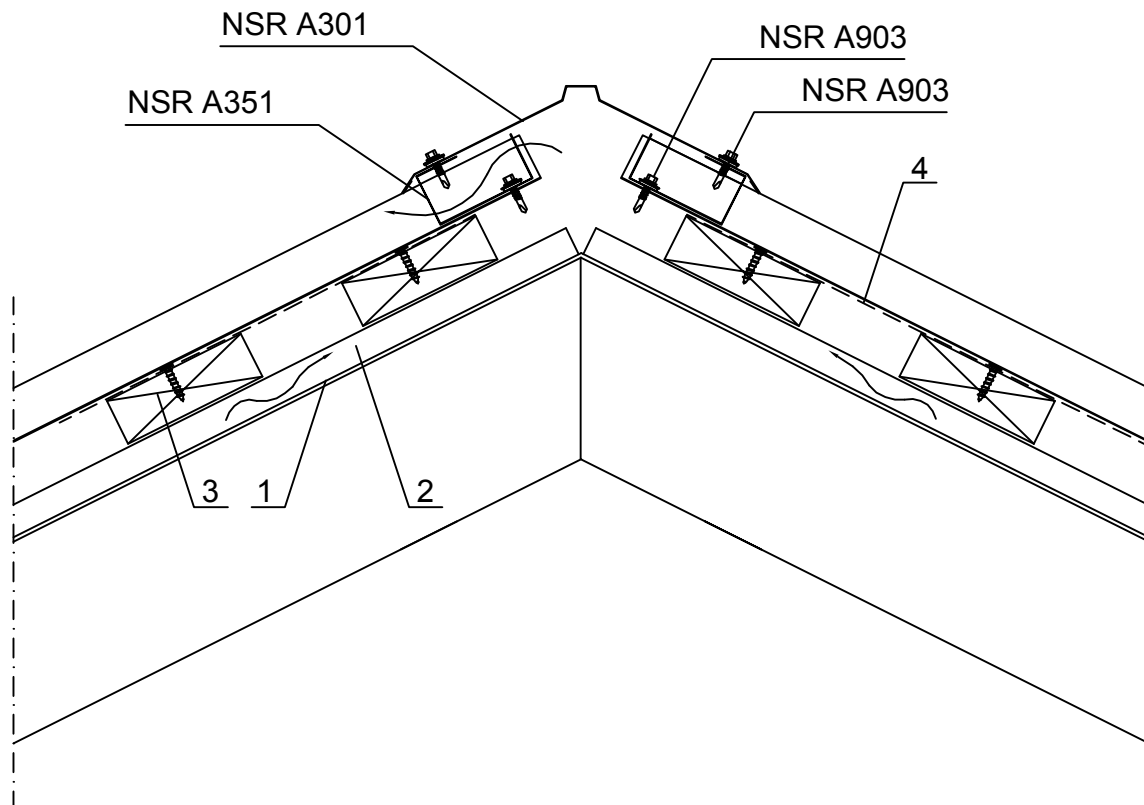
VERGE DETAIL



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS
- 4. SEALING STRIP FOR SOUND INSULATION

Date	Rev.	Project no.	Dwg-no. RPRE1015
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE101.dwg	

RIDGE DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. SEALING STRIP FOR SOUND INSULATION

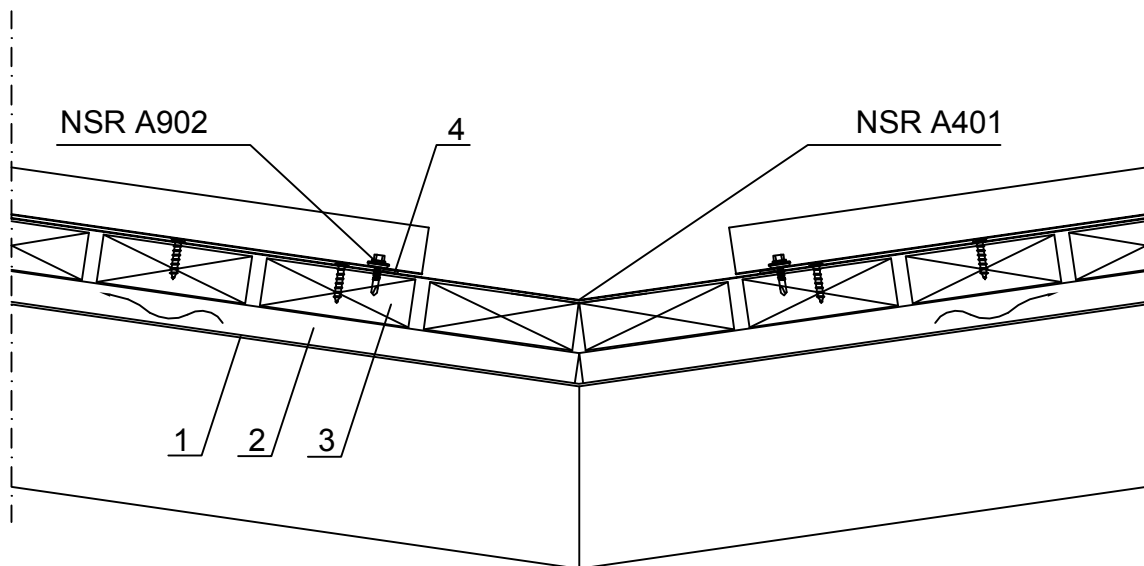


Subject

NSR PREFAB 100
NSR PRE101
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1016
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE101.dwg	

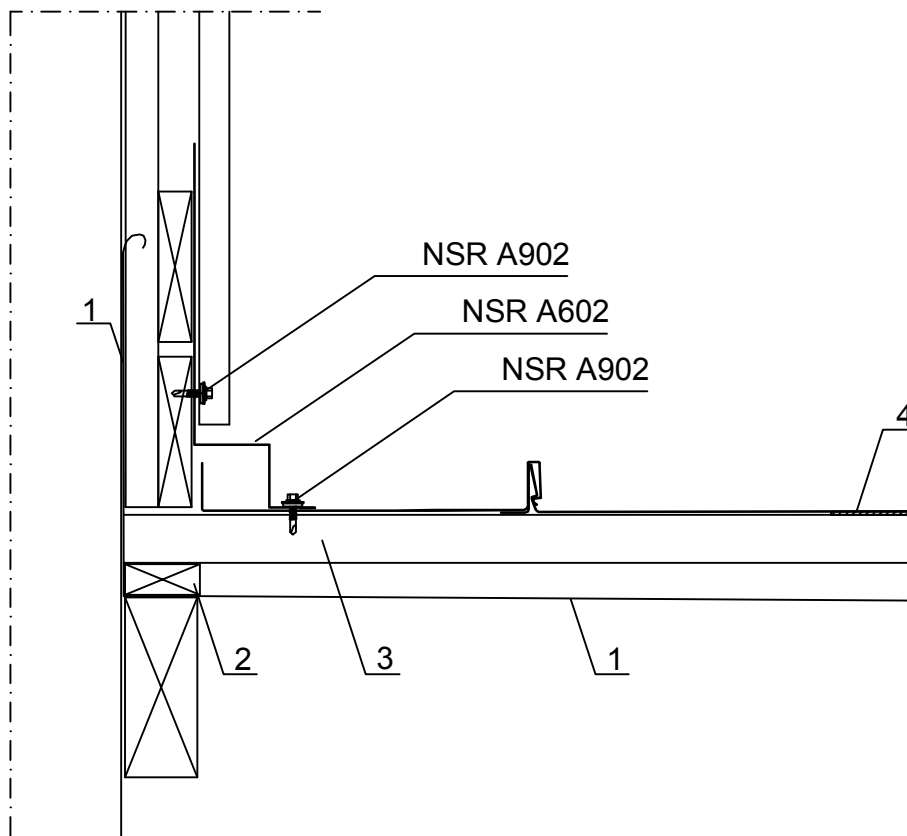
VALLEY DETAIL



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS
- 4. SEALING BAND

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1018
Scale 1:5	Project		Filename RPRE101.dwg

ROOF / WALL JOINT



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. SEALING STRIP FOR SOUND INSULATION

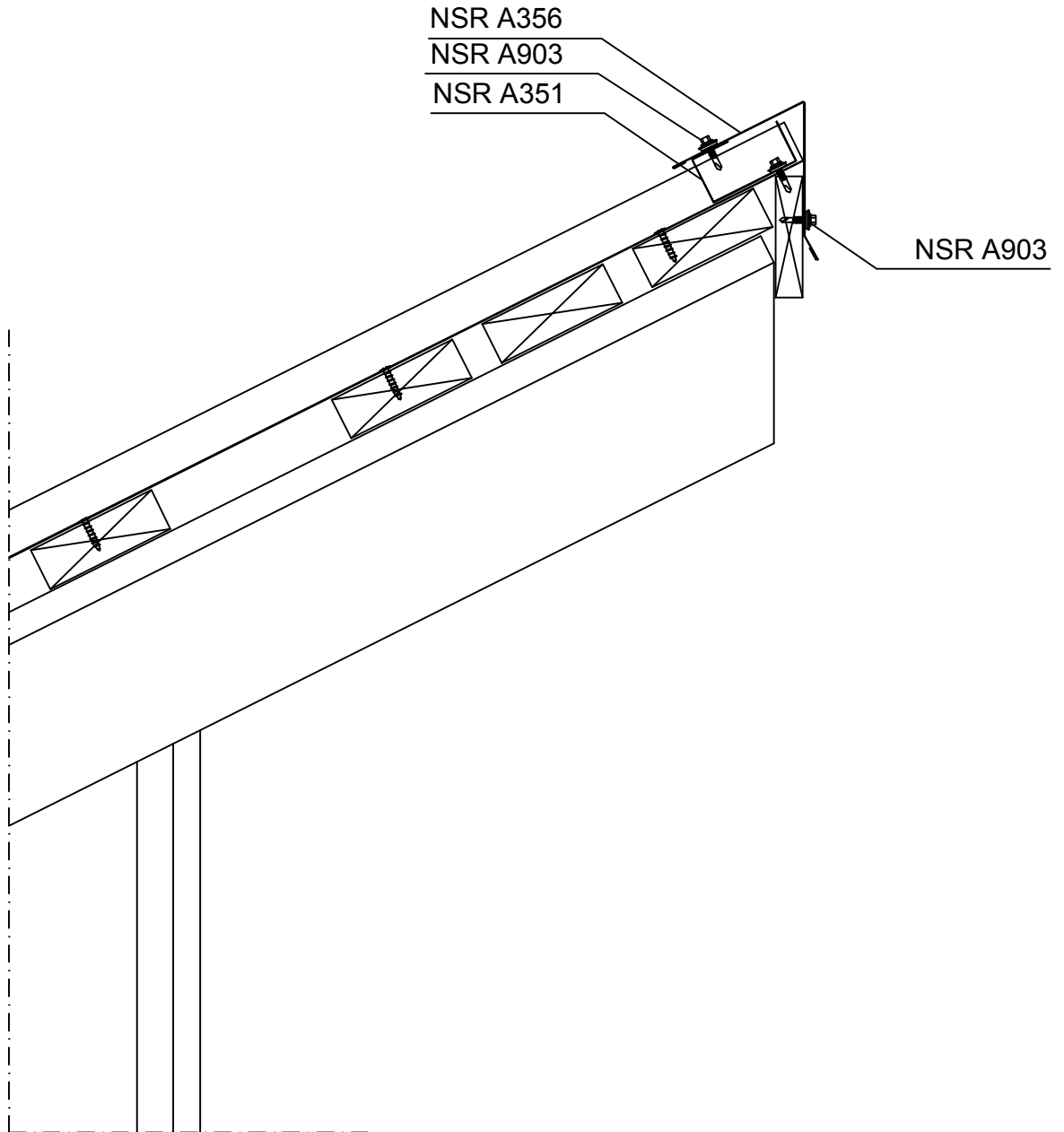


Subject

NSR PREFAB 100
NSR PRE101
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1019
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE101.dwg	

MONO-RIDGE DETAIL



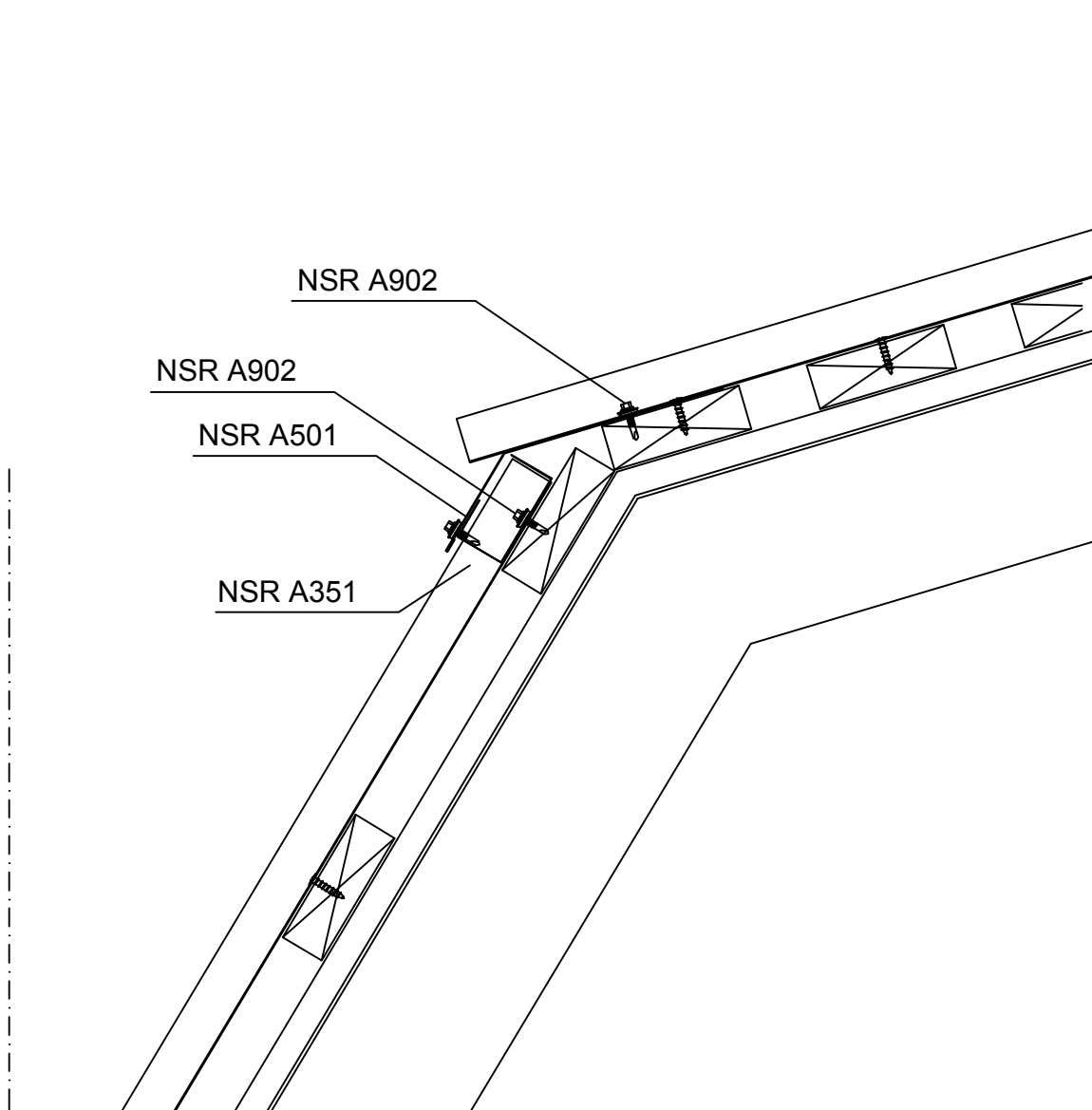


Subject

NSR PREFAB 100
NSR PRE101
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE10110
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE101.dwg	

MANSARD JOINT





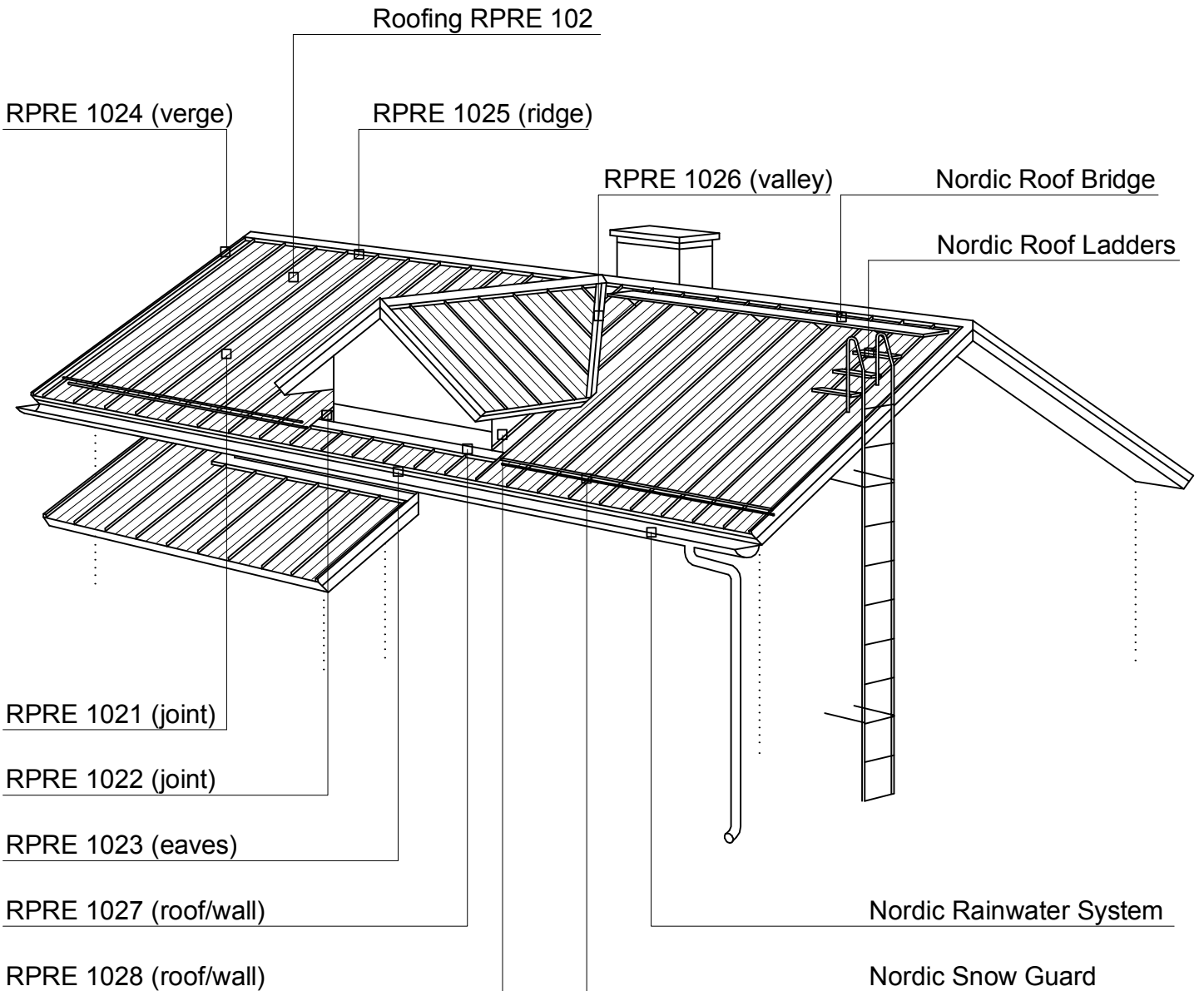
Subject

NSR PREFAB 100

NSR PRE102

DETAIL LINKS

Date	Rev.	Project no.	Dwg-no. RPRE102_3D
Drawn by	Rev.date		
Scale	Project	Filename NSR detail links.dwg	



RPRE 1029 (mono-ridge)

RPRE 10210 (mansard roof)

LUVATA

Subject

NSR PREFAB 100 NSR PRE102 DIMENSIONAL DRAWING

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE102
Scale 1:5	Project		Filename RPRE102.dwg

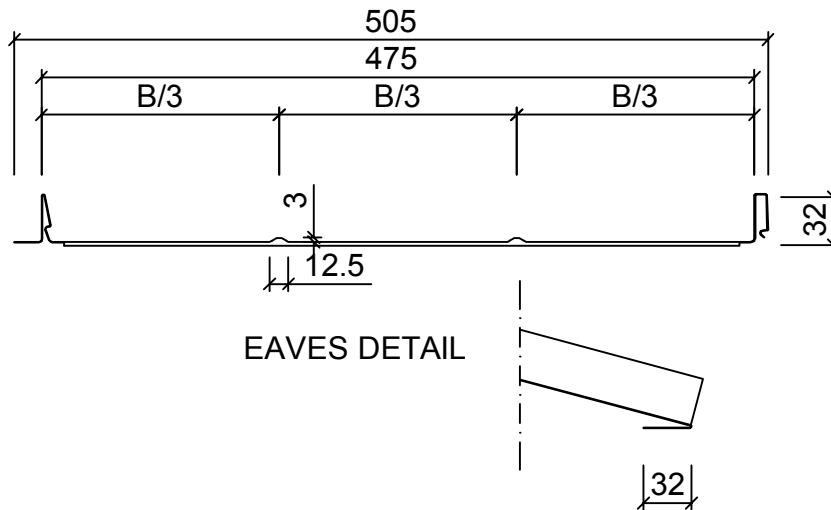
THICKNESS (t) = 0,6mm

MIN. LENGTH = 600mm

MAX. LENGTH = 8000mm

EFFECTIVE WIDTH = 475mm

WEIGHT=7,03 kg/m²

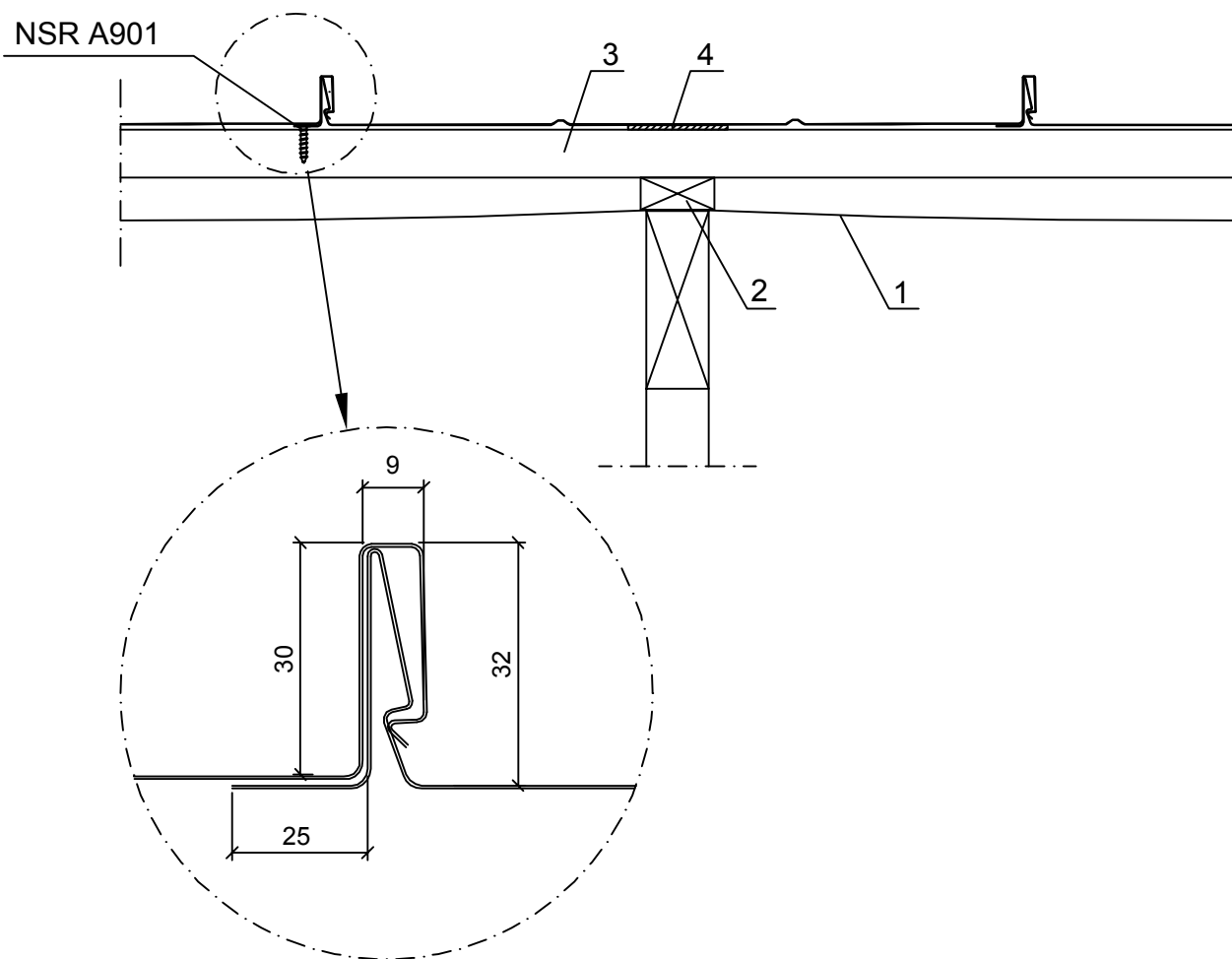


BATTENS c/c max. 300 mm

Extra battens at eaves and ridge acc. to the structural design

Date	Rev.	Project no.	Dwg-no. RPRE1021
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE102.dwg	

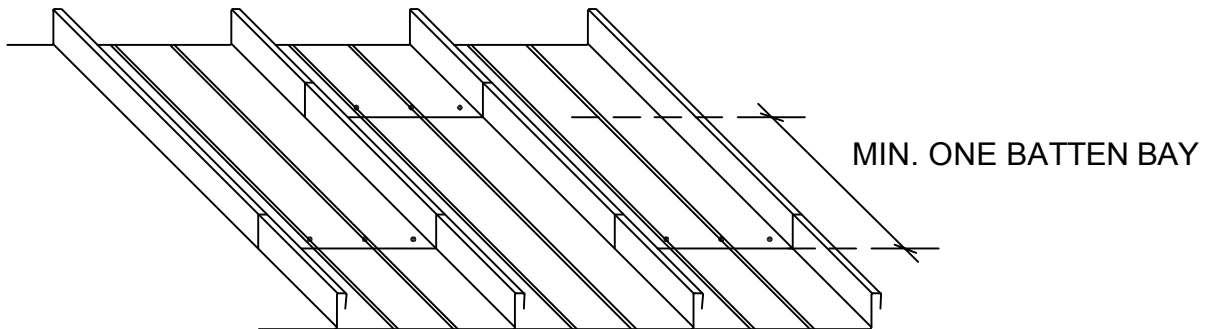
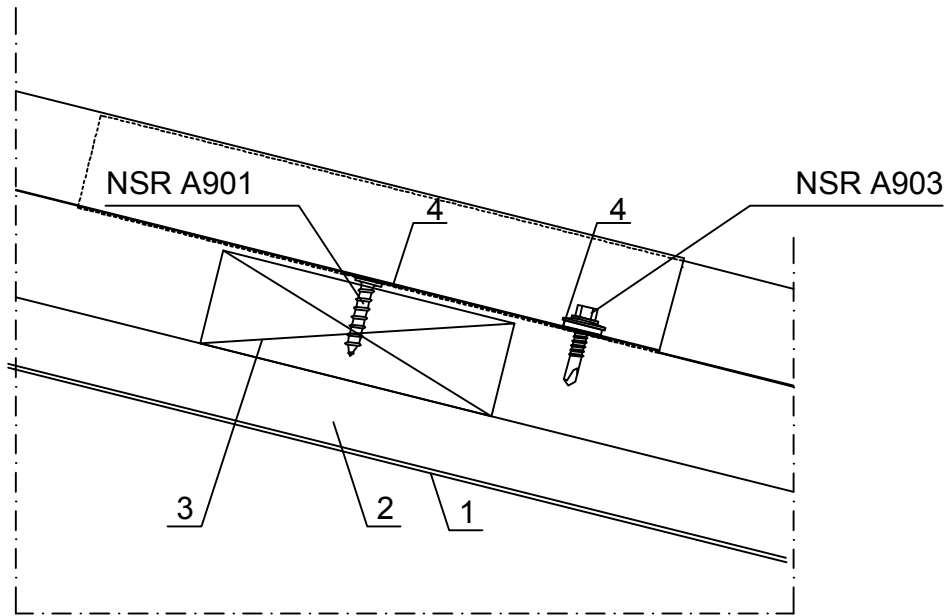
JOINT DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. SEALING STRIP FOR SOUND INSULATION

Date	Rev.	Project no.	Dwg-no. RPRE1022
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE102.dwg	

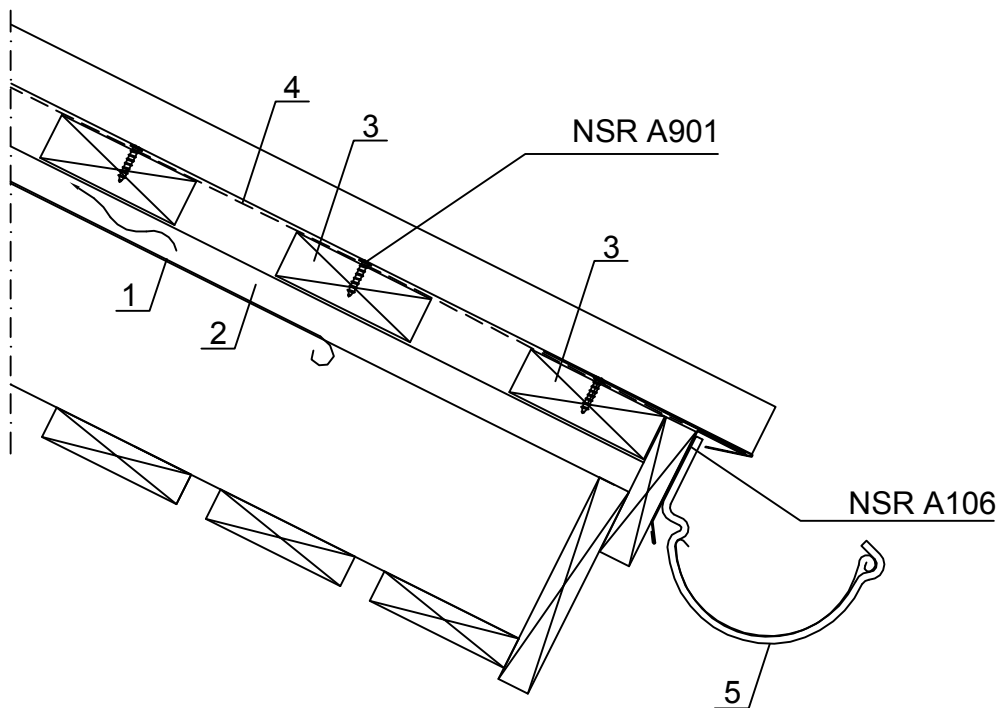
HORIZONTAL JOINT (EXTENSION)



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. ELASTIC SEALING COMPOUND

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1023-1
Scale 1:5	Project		Filename RPRE102.dwg

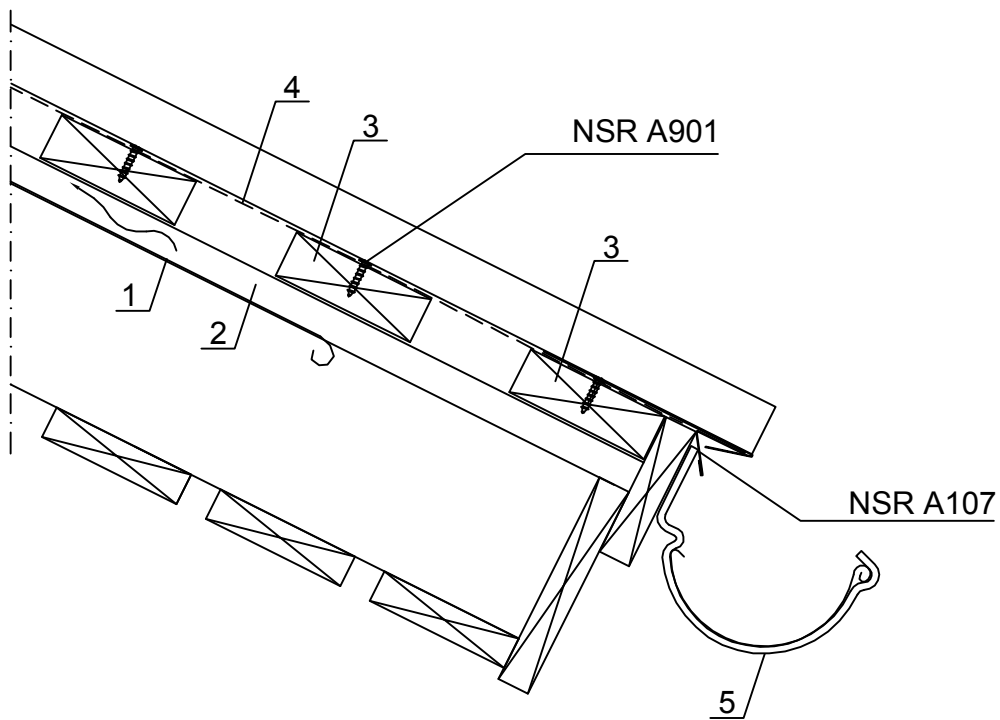
EAVES DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
(EXTRA BATTENS AT EAVES)
4. SEALING STRIP FOR SOUND INSULATION
5. NORDIC RAINWATER SYSTEM

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1023-2
Scale 1:5	Project		Filename RPRE102.dwg

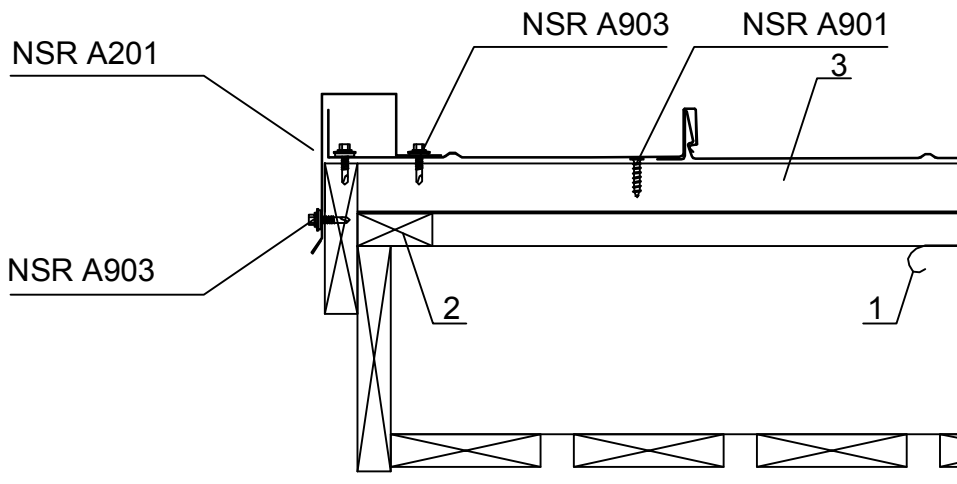
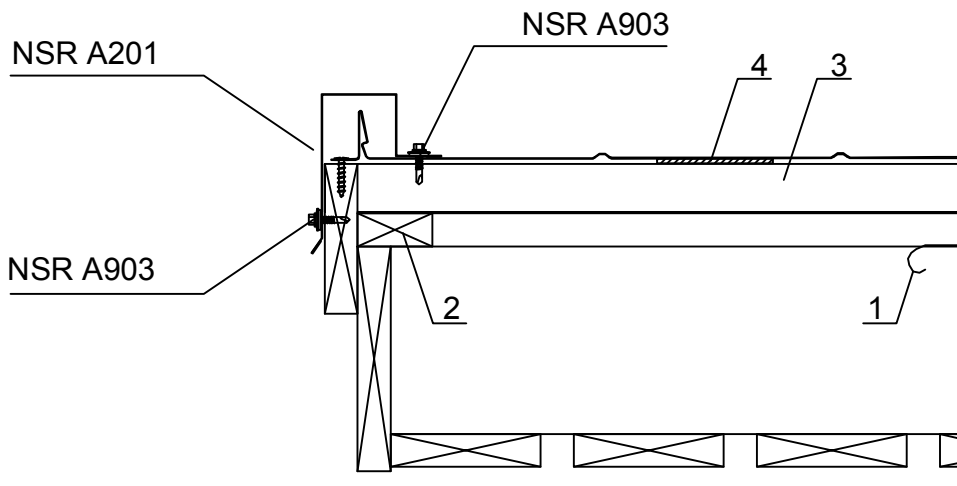
EAVES DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
(EXTRA BATTENS AT EAVES)
4. SEALING STRIP FOR SOUND INSULATION
5. NORDIC RAINWATER SYSTEM

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1024
Scale 1:5	Project		Filename RPRE102.dwg

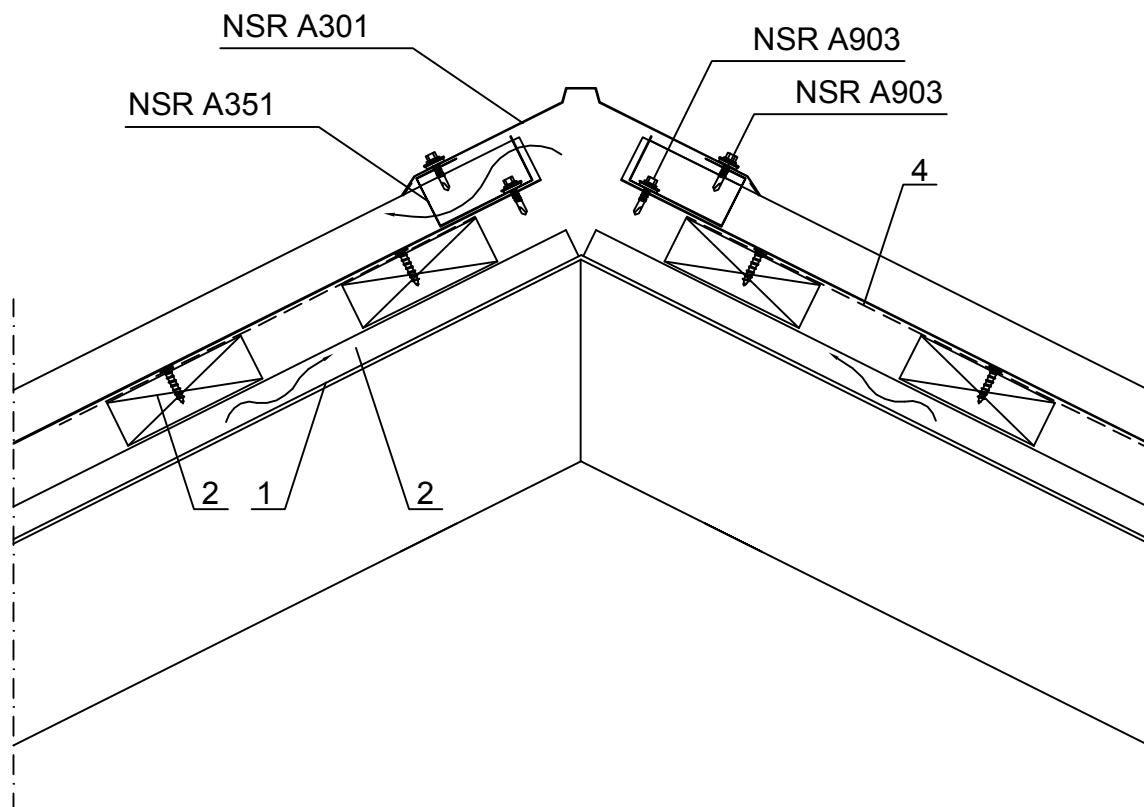
VERGE DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. SEALING STRIP FOR SOUND INSULATION

Date	Rev.	Project no.	Dwg-no. RPRE1025
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE102.dwg	

RIDGE DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. SEALING STRIP FOR SOUND INSULATION

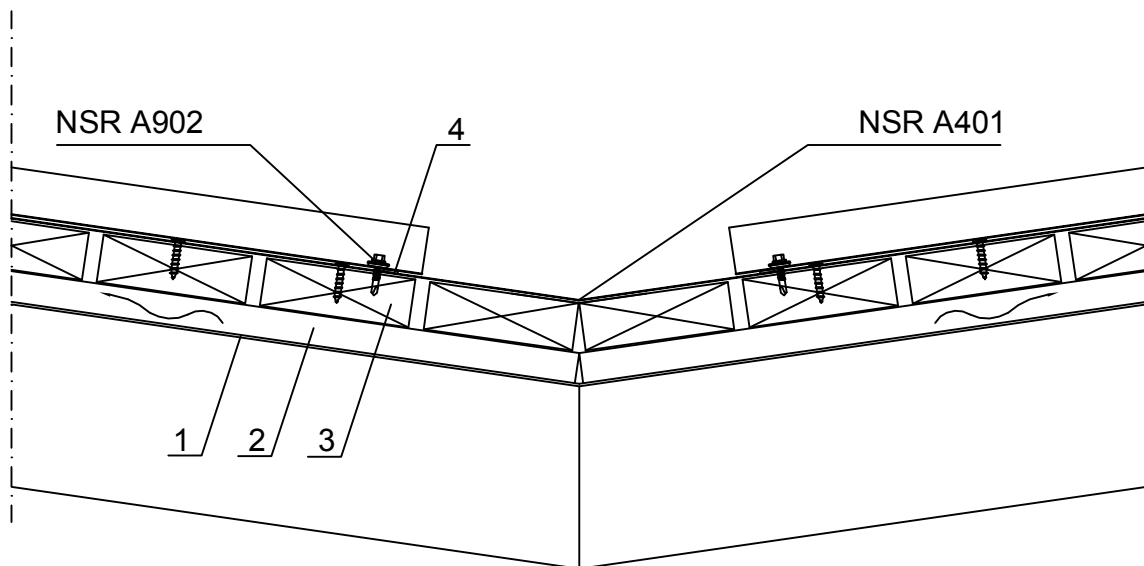
LUVATA

Subject

NSR PREFAB 100
NSR PRE102
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1026
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE102.dwg	

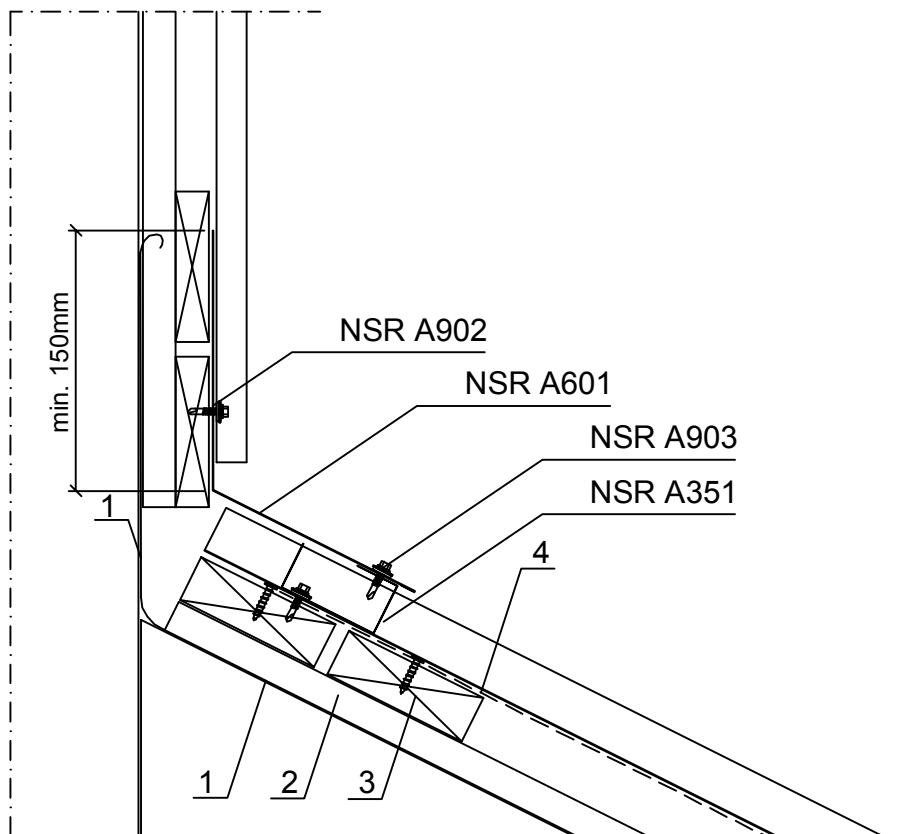
VALLEY DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. SEALING BAND

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1027
Scale 1:5	Project		Filename RPRE102.dwg

ROOF / WALL JOINT



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. SEALING STRIP FOR SOUND INSULATION

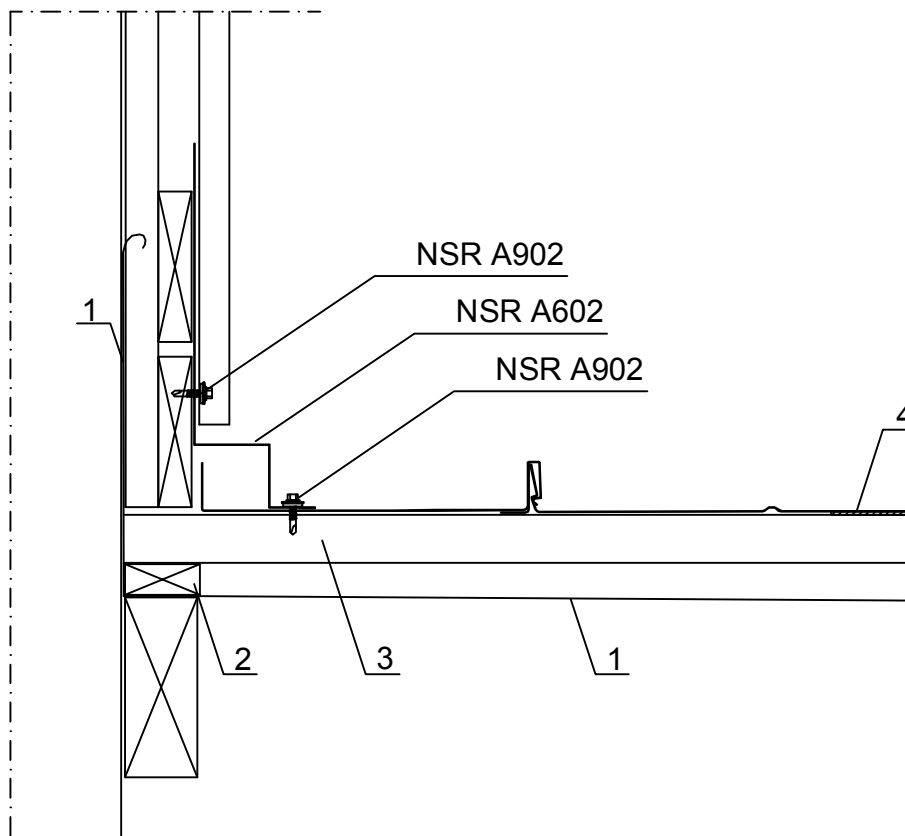
LUVATA

Subject

NSR PREFAB 100
NSR PRE102
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1028
Scale 1:5	Project		Filename RPRE102.dwg

ROOF / WALL JOINT



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS
- 4. SEALING STRIP FOR SOUND INSULATION

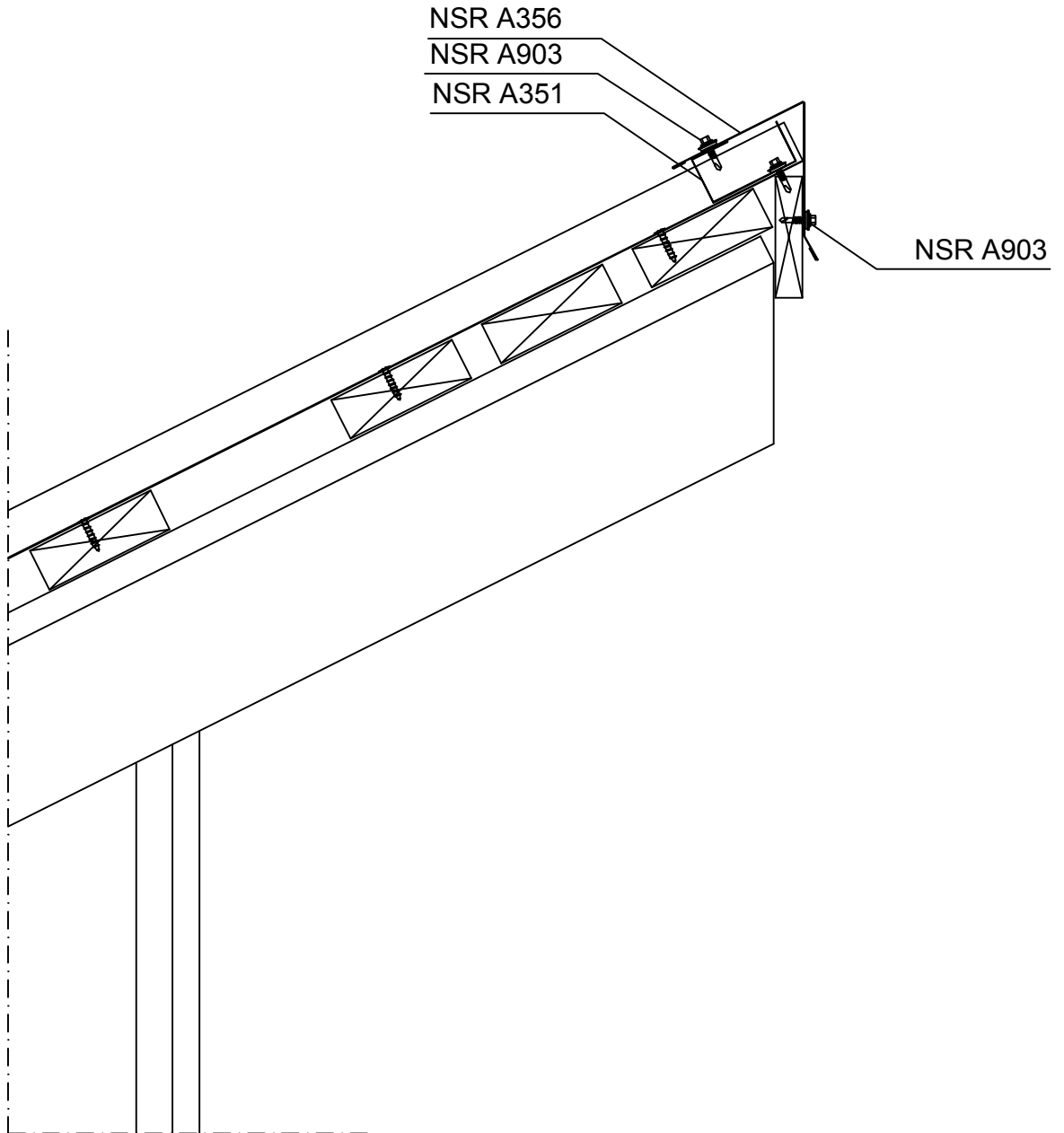


Subject

NSR PREFAB 100
NSR PRE102
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1029
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE102.dwg	

MONO-RIDGE DETAIL



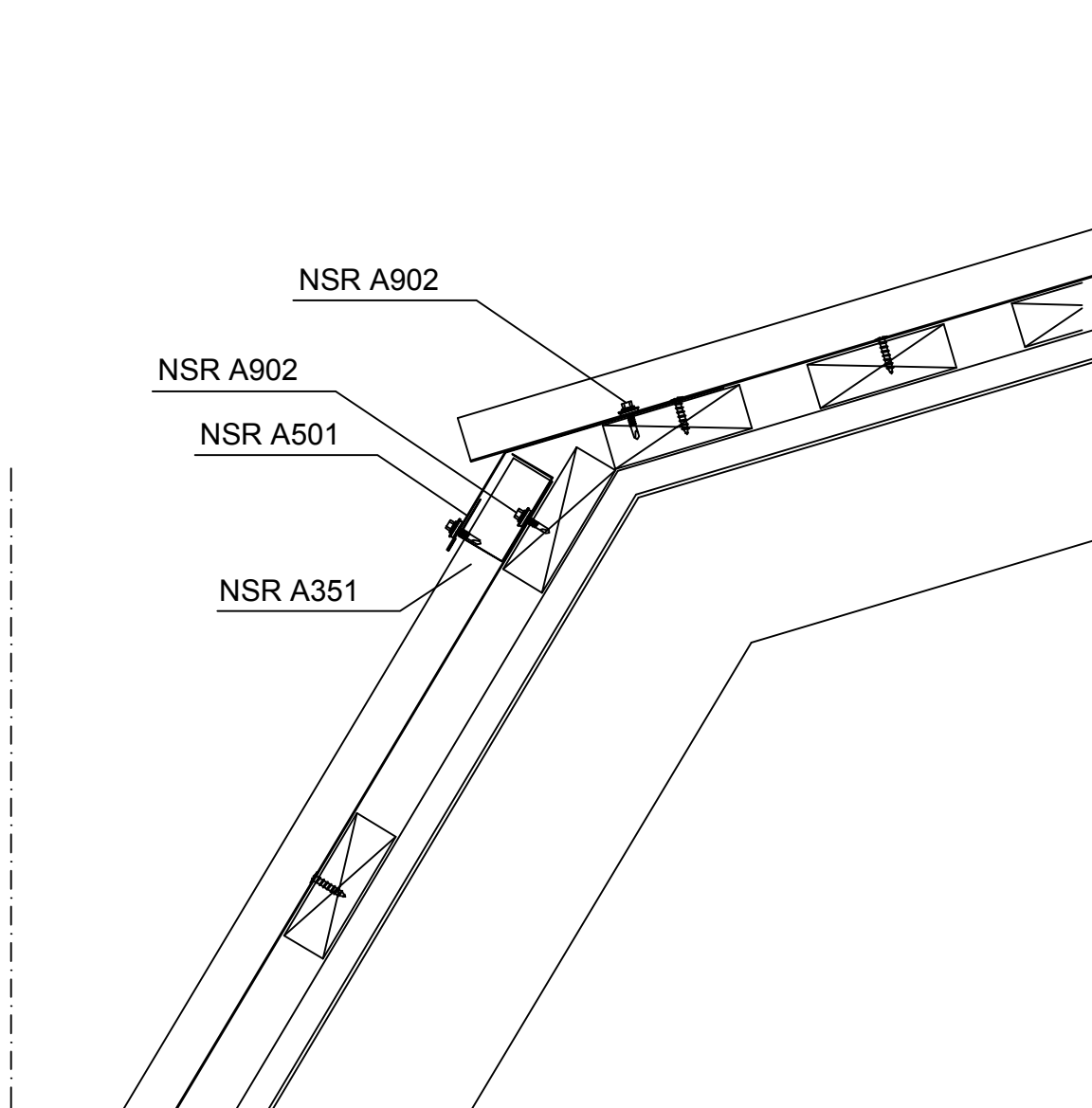


Subject

NSR PREFAB 100
NSR PRE102
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE10210
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE102.dwg	

MANSARD JOINT





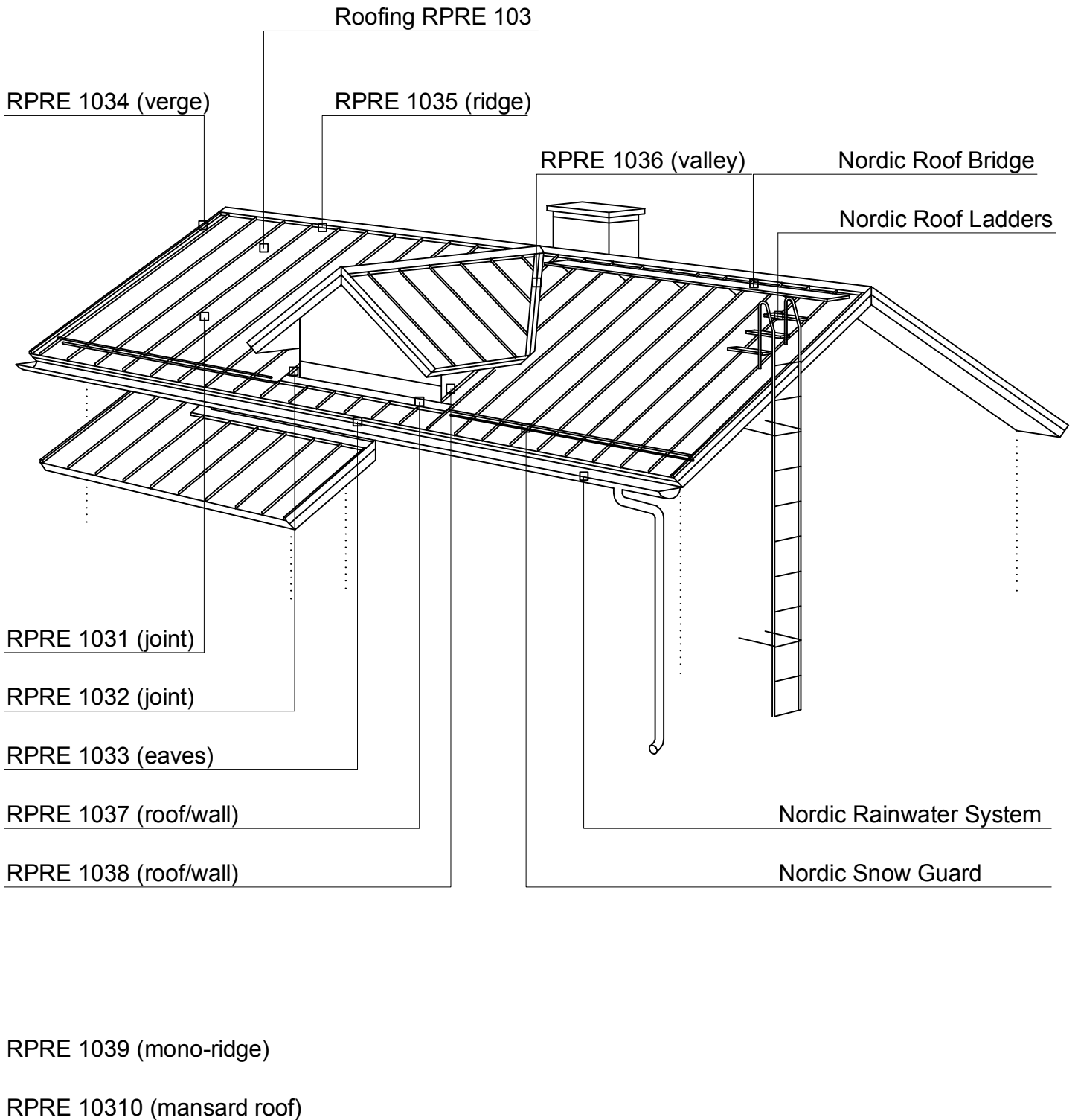
Subject

NSR PREFAB 100

NSR PRE103

DETAIL LINKS

Date	Rev.	Project no.	Dwg-no. RPRE103_3D
Drawn by	Rev.date		
Scale	Project	Filename NSR detail links.dwg	



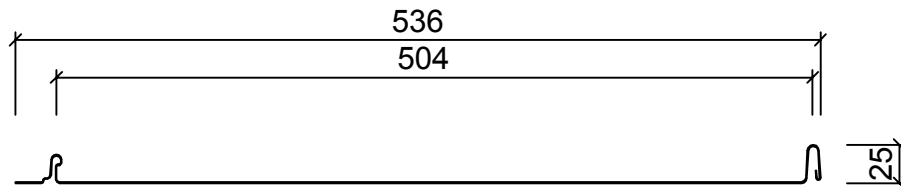


Subject

NSR PREFAB 100
NSR PRE103
DIMENSIONAL DRAWING

Date	Rev.	Project no.	Dwg-no. RPRE103
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE103.dwg	

THICKNESS (t) = 0,6mm
MIN. LENGTH = 600mm
MAX. LENGTH = 8000mm
EFFECTIVE WIDTH = 504mm
WEIGHT=6,46 kg/m²



BATTENS c/c max. 250 mm

Extra battens at eaves and ridge acc. to the structural design

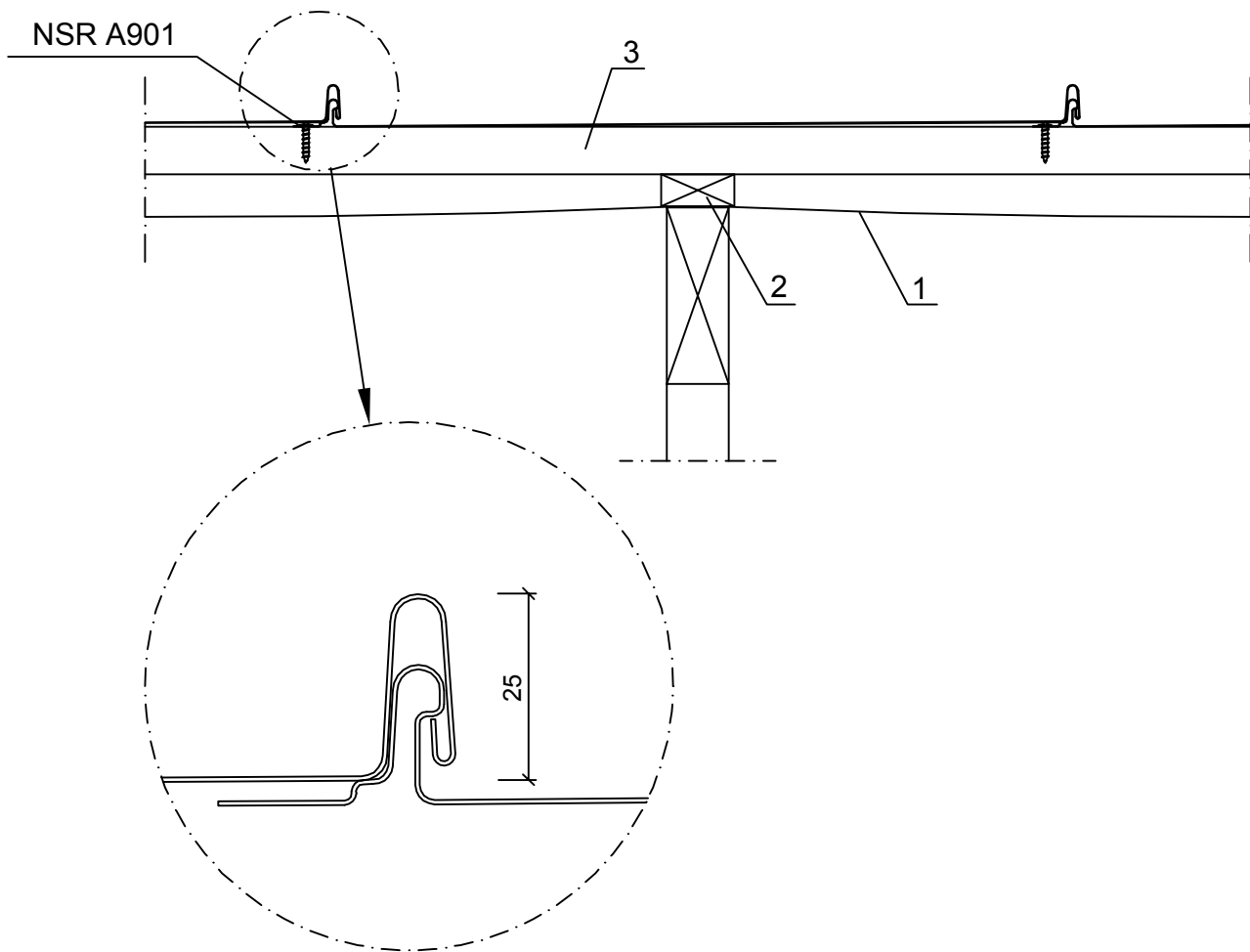
LUVATA

Subject

NSR PREFAB 100
NSR PRE103
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1031
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE103.dwg	

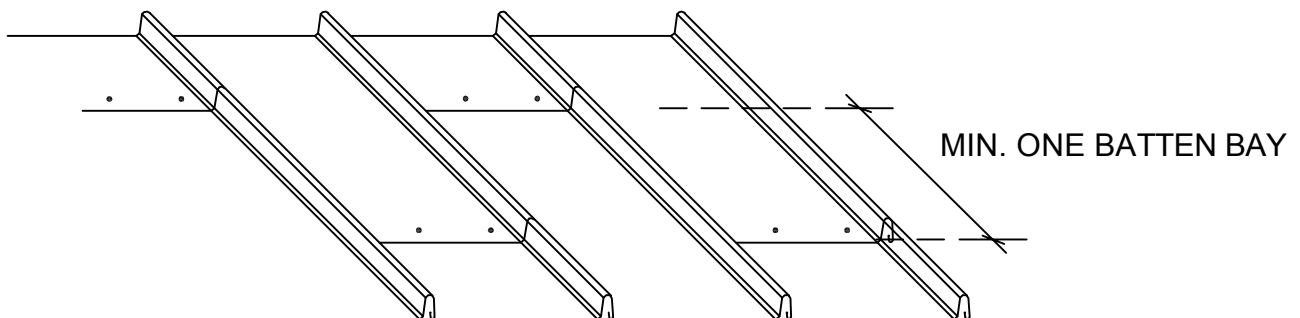
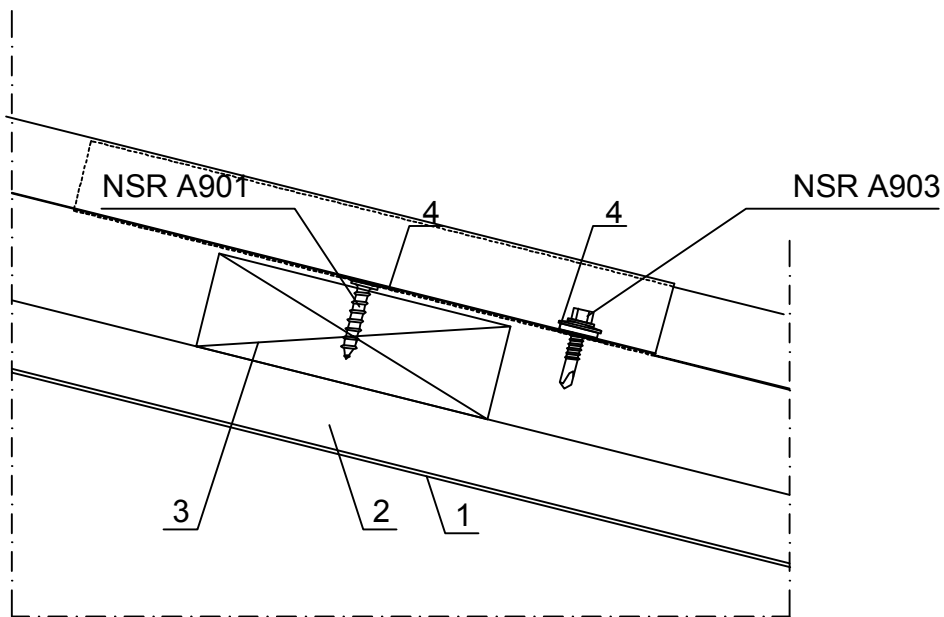
JOINT DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS

Date	Rev.	Project no.	Dwg-no. RPRE1032
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE103.dwg	

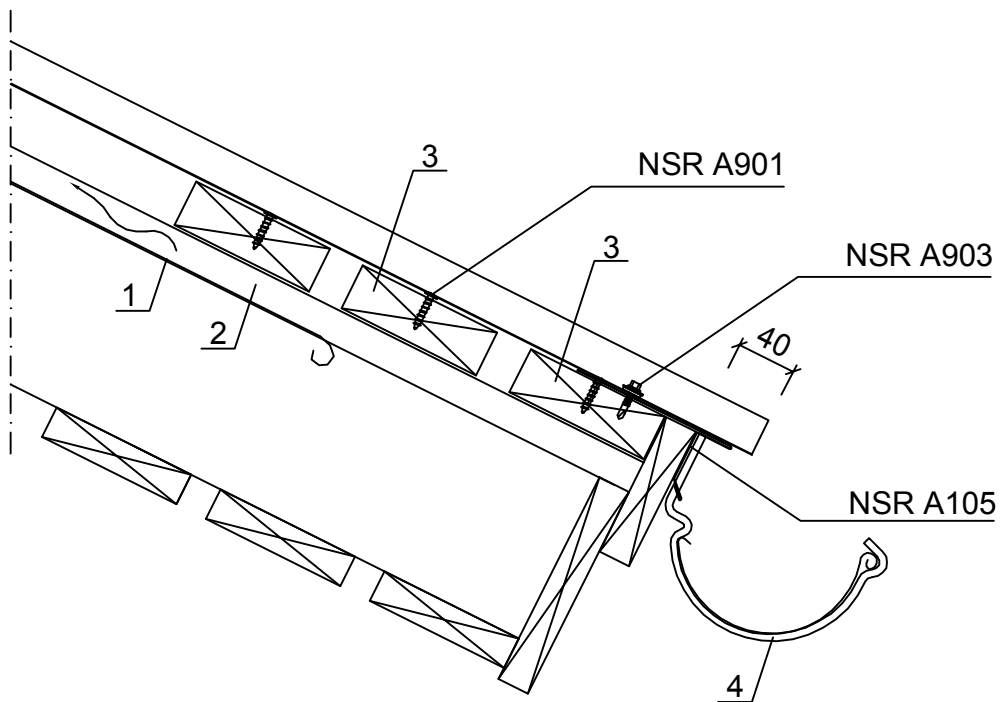
HORIZONTAL JOINT (EXTENSION)



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. ELASTIC SEALING COMPOUND

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1033
Scale 1:5	Project		Filename RPRE103.dwg

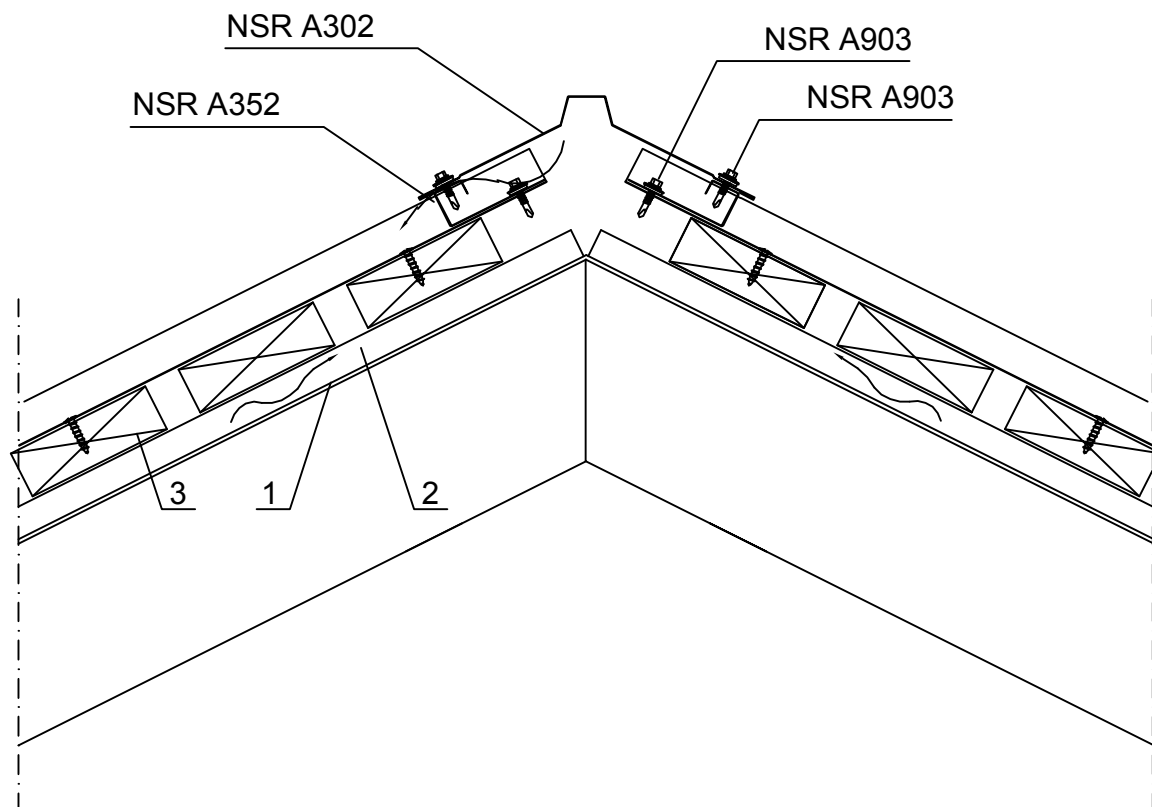
EAVES DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
(EXTRA BATTENS AT EAVES)
4. NORDIC RAINWATER SYSTEM

Date	Rev.	Project no.	Dwg-no. RPRE1035
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE103.dwg	

RIDGE DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS

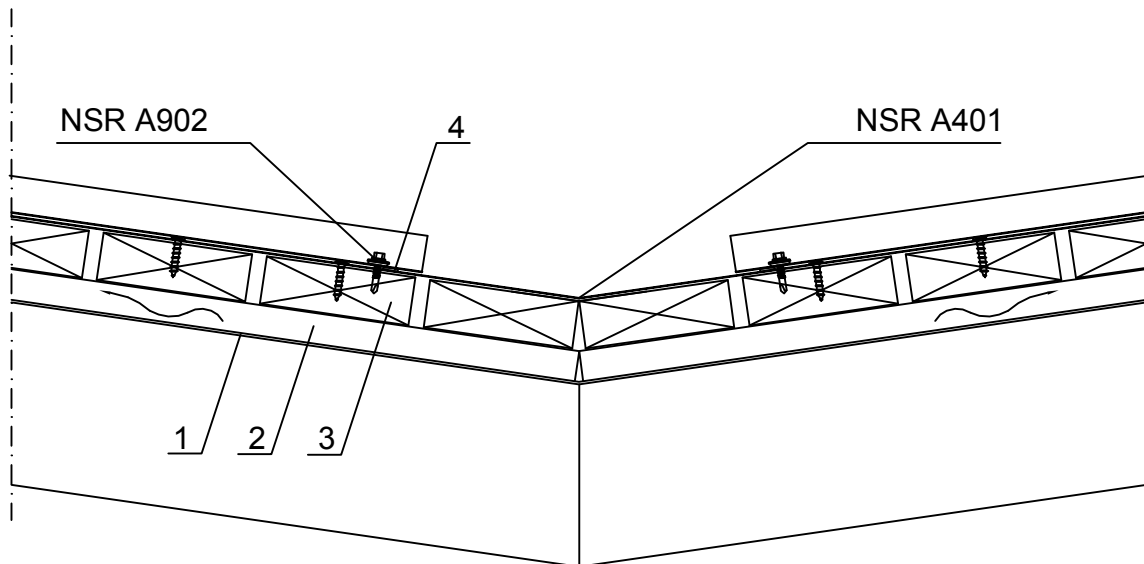
LUVATA

Subject

NSR PREFAB 100
NSR PRE103
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1036
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE103.dwg	

VALLEY DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. SEALING BAND

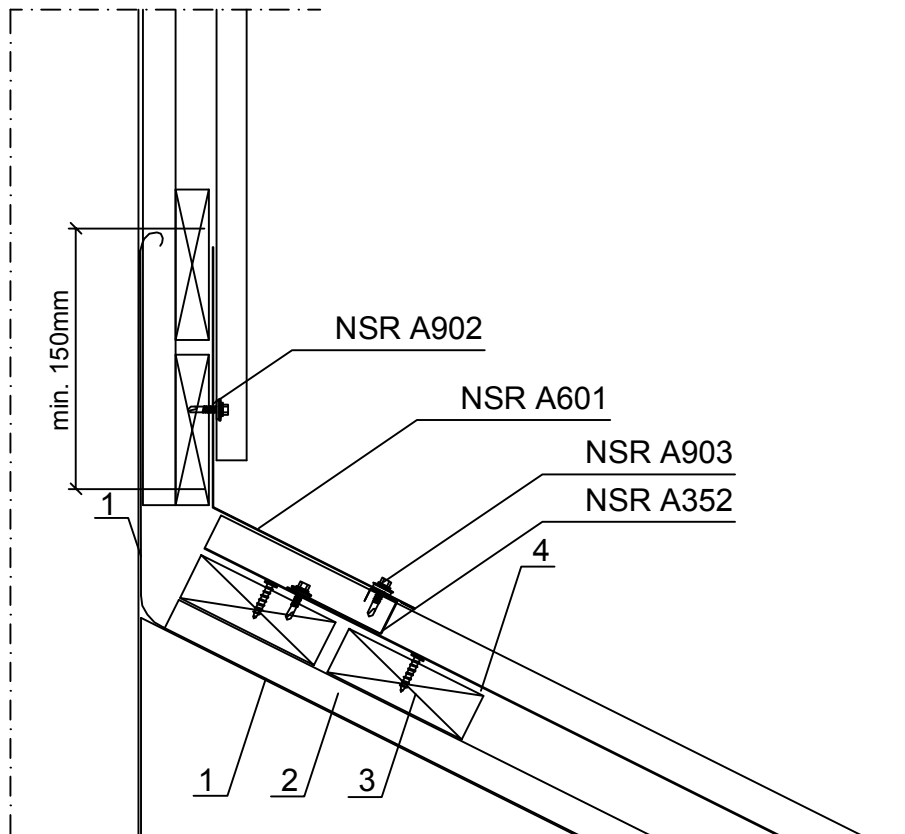


Subject

NSR PREFAB 100
NSR PRE103
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1037
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE103.dwg	

ROOF / WALL JOINT



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS

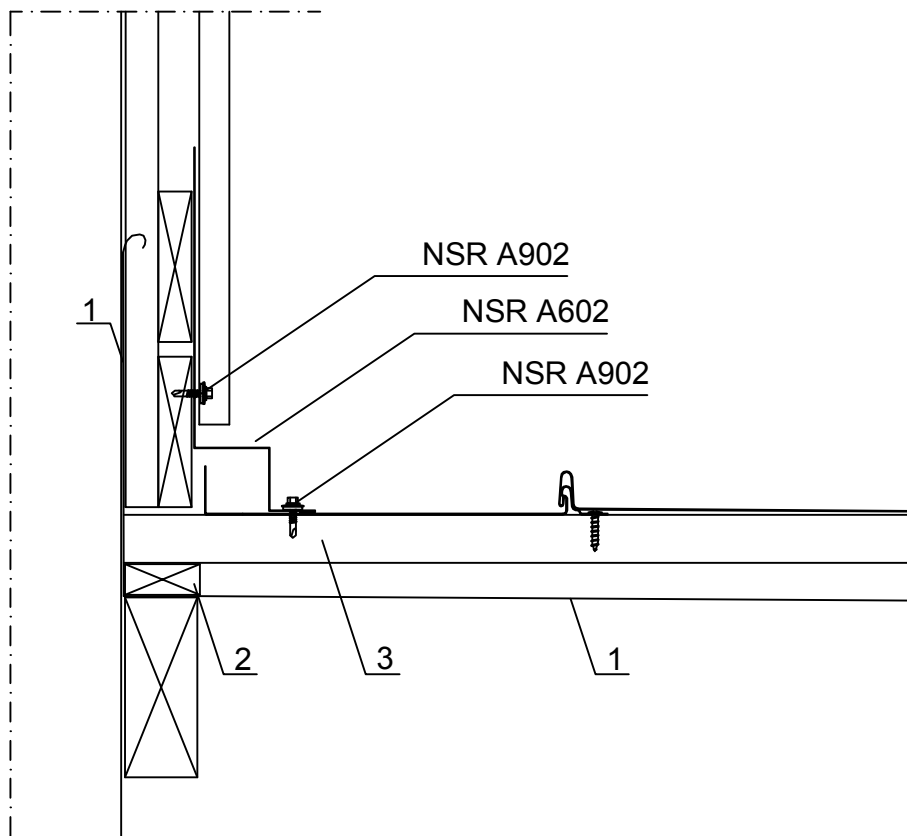


Subject

NSR PREFAB 100
NSR PRE103
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1038
Drawn by	Rev.date		
Scale 1:5	Project	Filename	

ROOF / WALL JOINT



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS

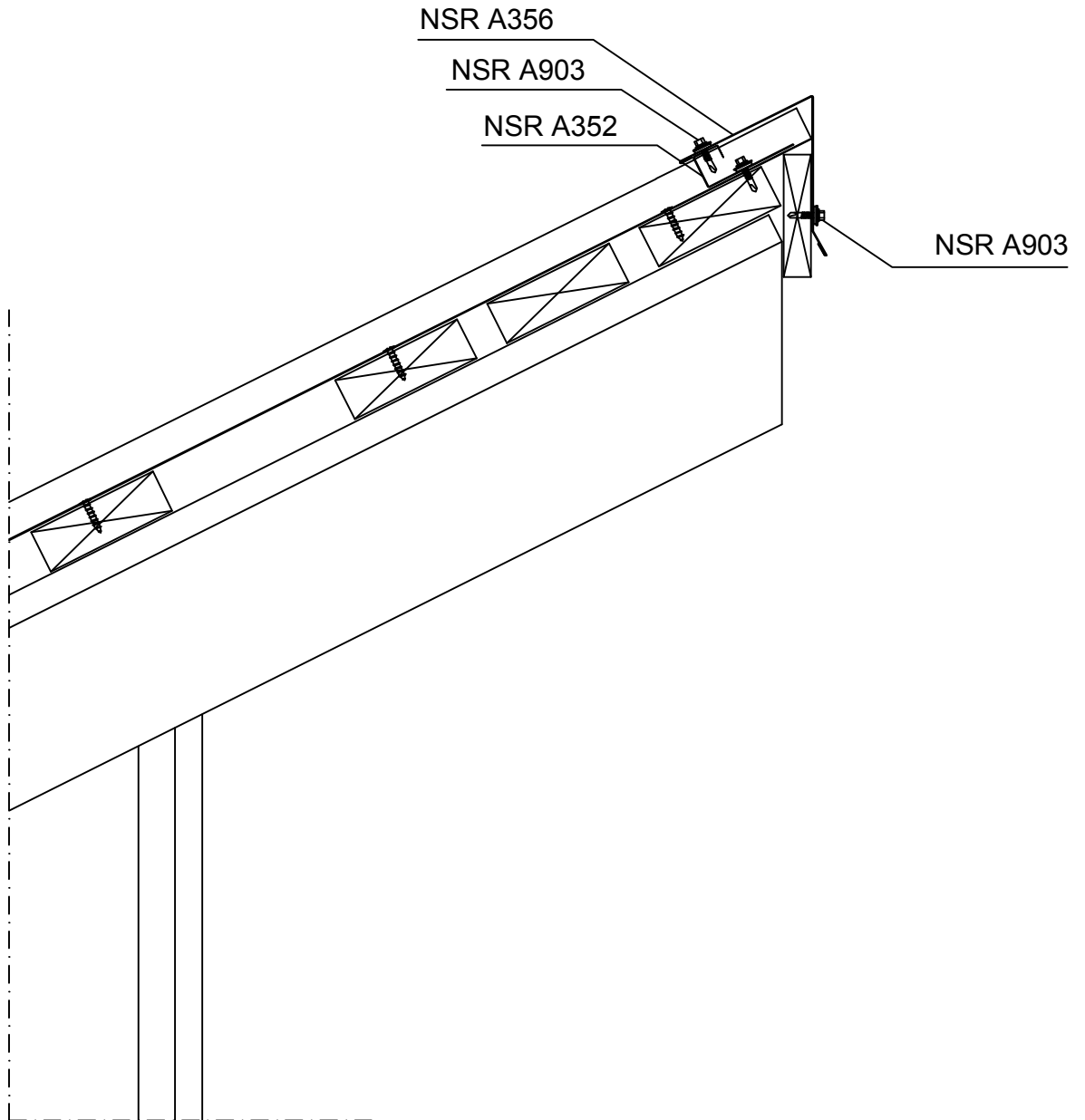
LUVATA

Subject

NSR PREFAB 100
NSR PRE103
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1039
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE103.dwg	

MONO-RIDGE DETAIL



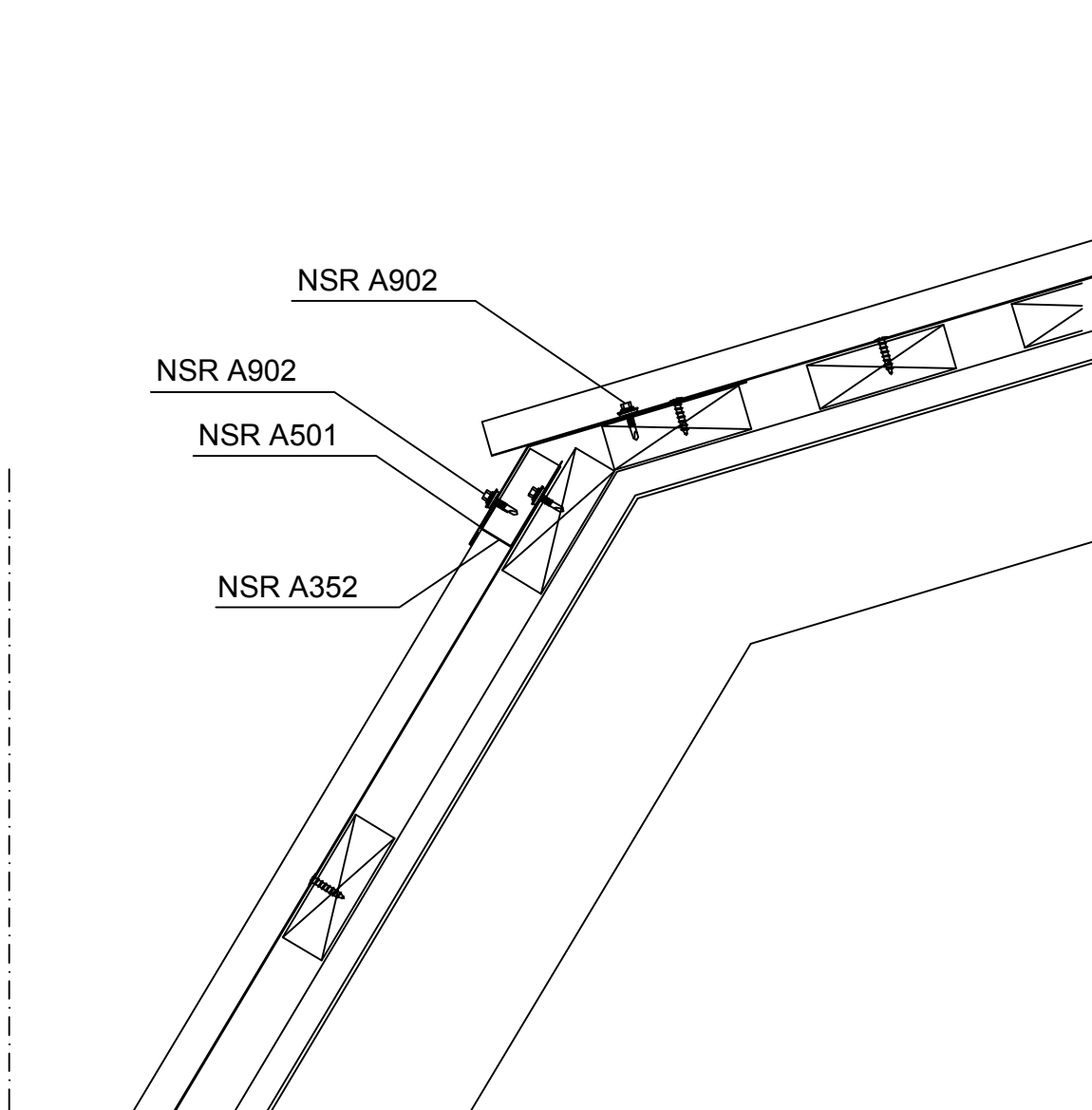


Subject

NSR PREFAB 100
NSR PRE103
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE10310
Scale 1:5	Project		Filename RPRE103.dwg

MANSARD JOINT





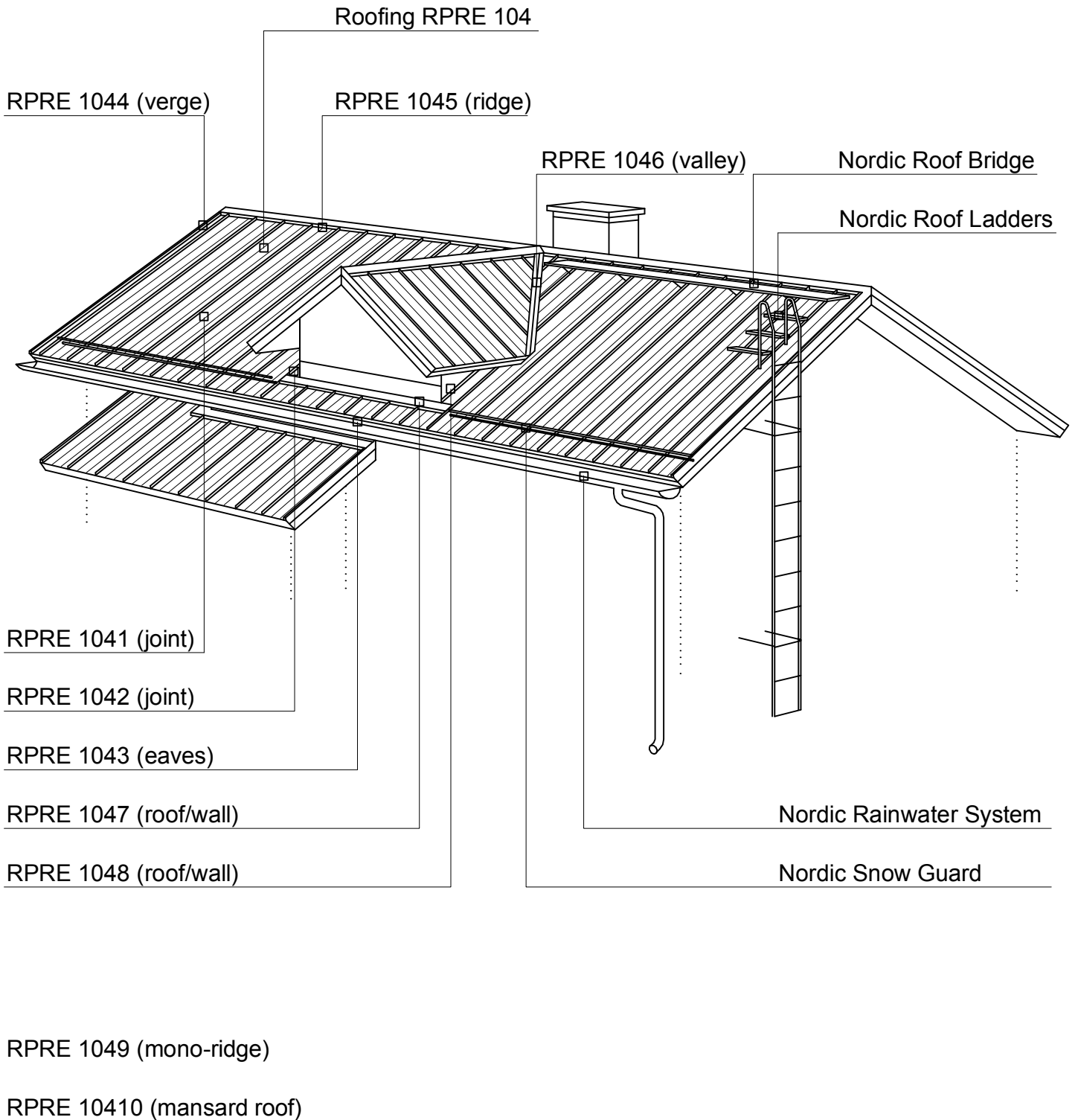
Subject

NSR PREFAB 100

NSR PRE104

DETAIL LINKS

Date	Rev.	Project no.	Dwg-no. RPRE104_3D
Drawn by	Rev.date		
Scale	Project	Filename NSR detail links.dwg	



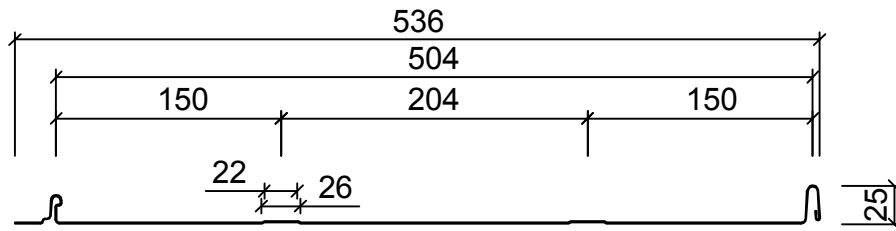


Subject

NSR PREFAB 100
NSR PRE104
DIMENSIONAL DRAWING

Date	Rev.	Project no.	Dwg-no. RPRE104
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE104.dwg	

THICKNESS (t) = 0,6mm
MIN. LENGTH = 600mm
MAX. LENGTH = 8000mm
EFFECTIVE WIDTH = 504mm
WEIGHT=6,46 kg/m²



BATTENS c/c max. 250 mm

Extra battens at eaves and ridge acc. to the structural design

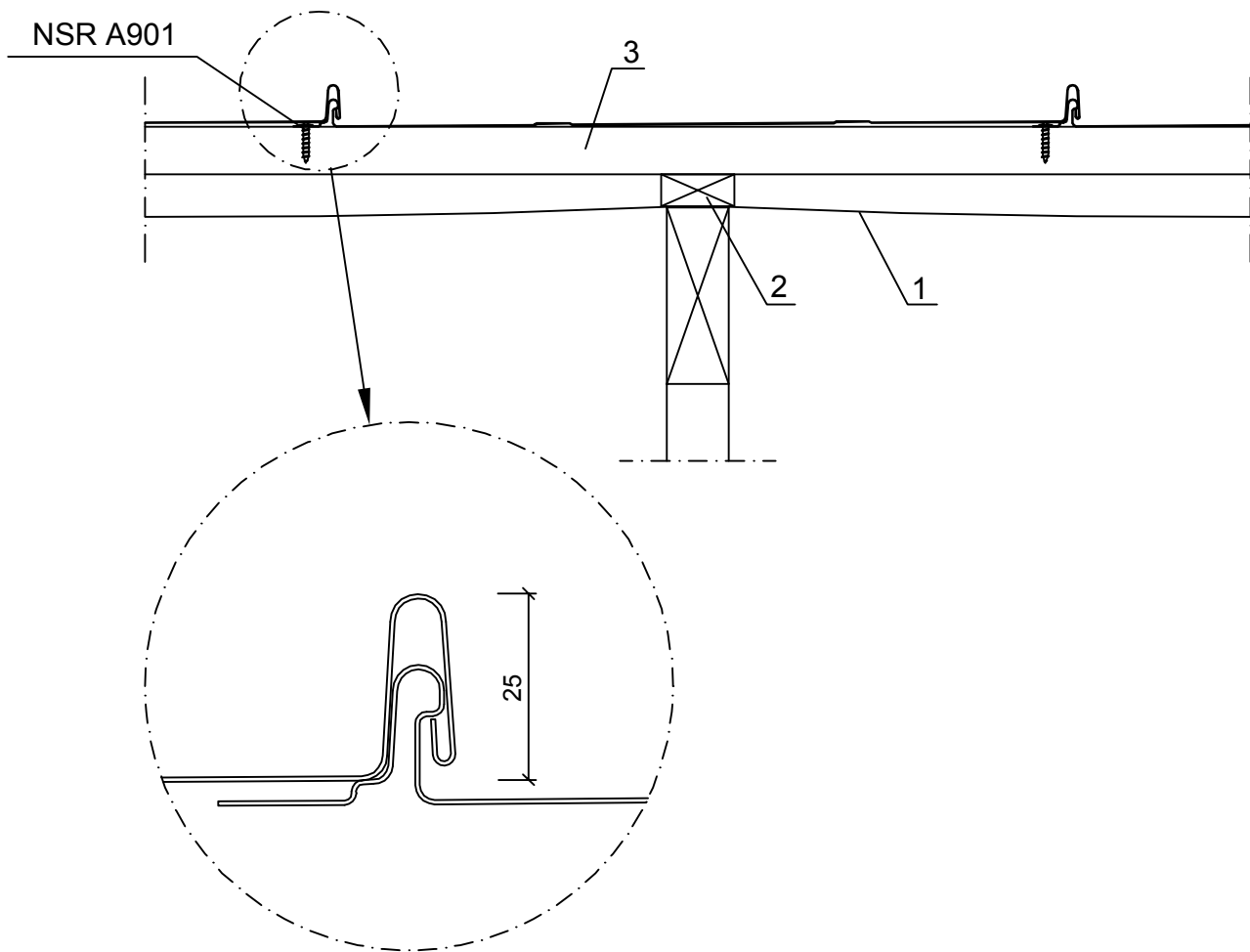
LUVATA

Subject

NSR PREFAB 100
NSR PRE104
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1041
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE104.dwg	

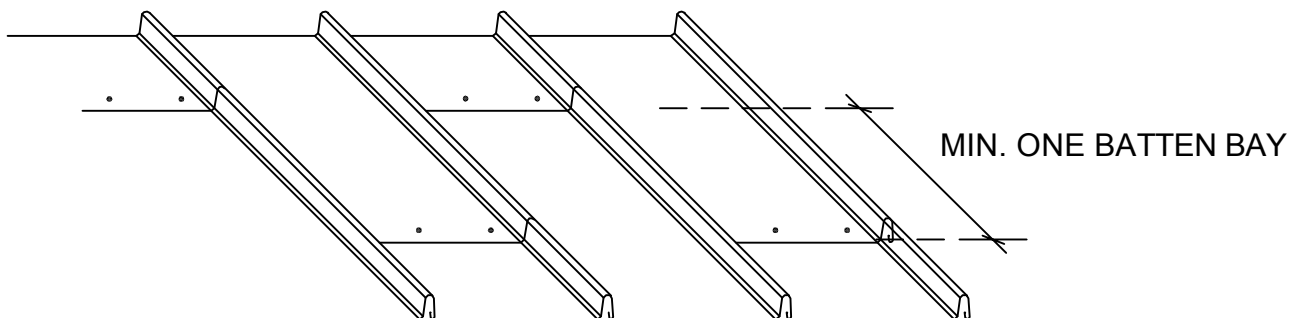
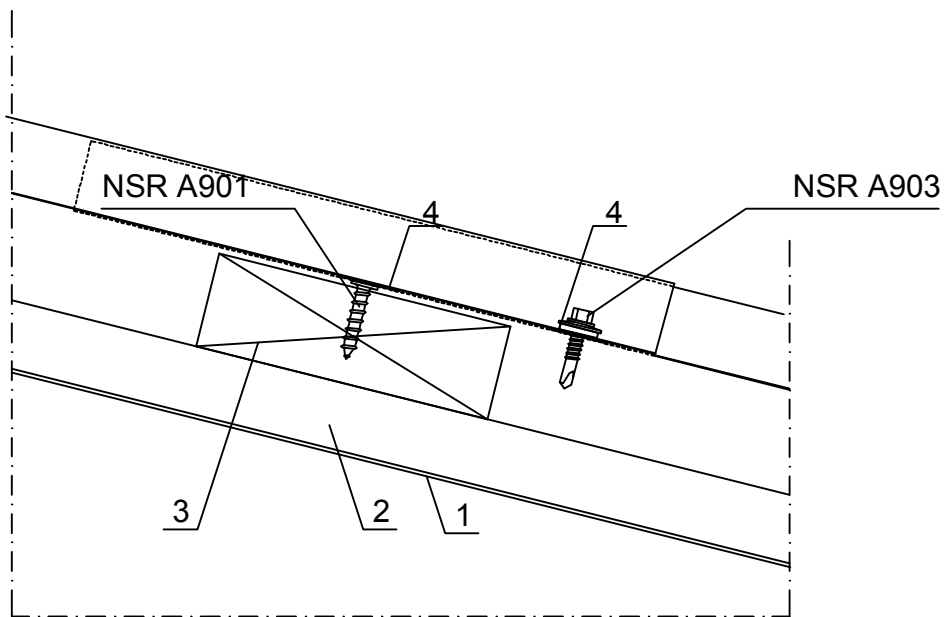
JOINT DETAIL



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS

Date	Rev.	Project no.	Dwg-no. RPRE1042
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE104.dwg	

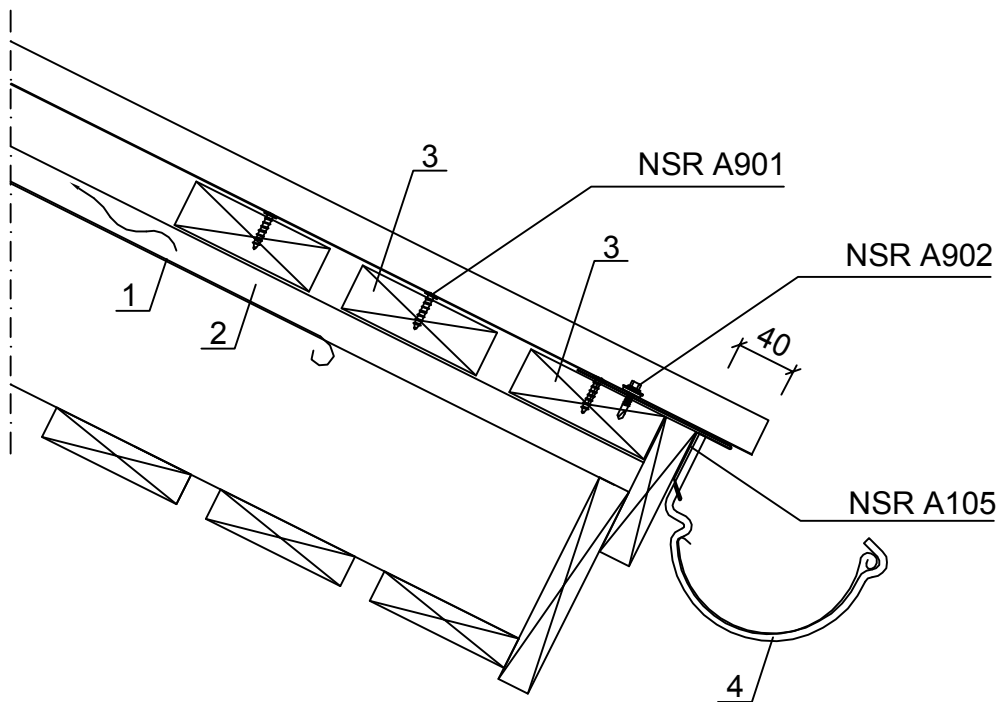
HORIZONTAL JOINT (EXTENSION)



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. ELASTIC SEALING COMPOUND

Date	Rev.	Project no.	Dwg-no. RPRE1043
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE104.dwg	

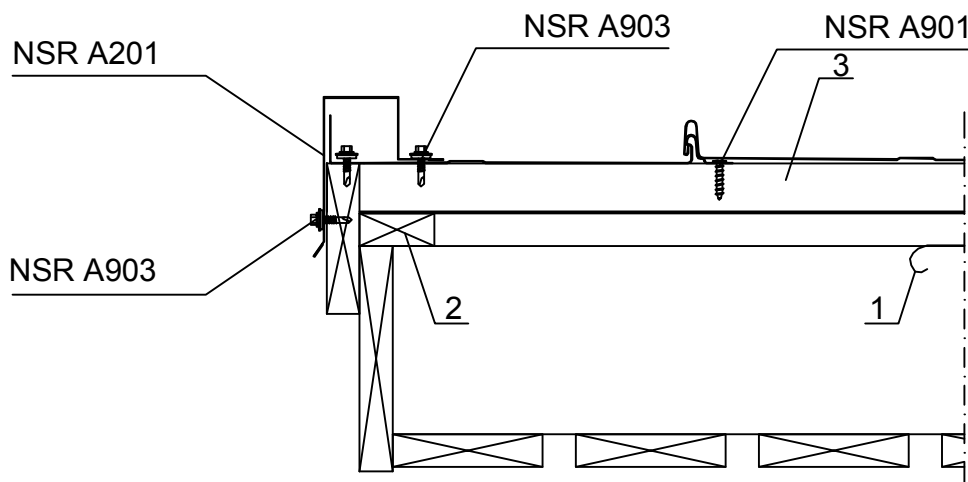
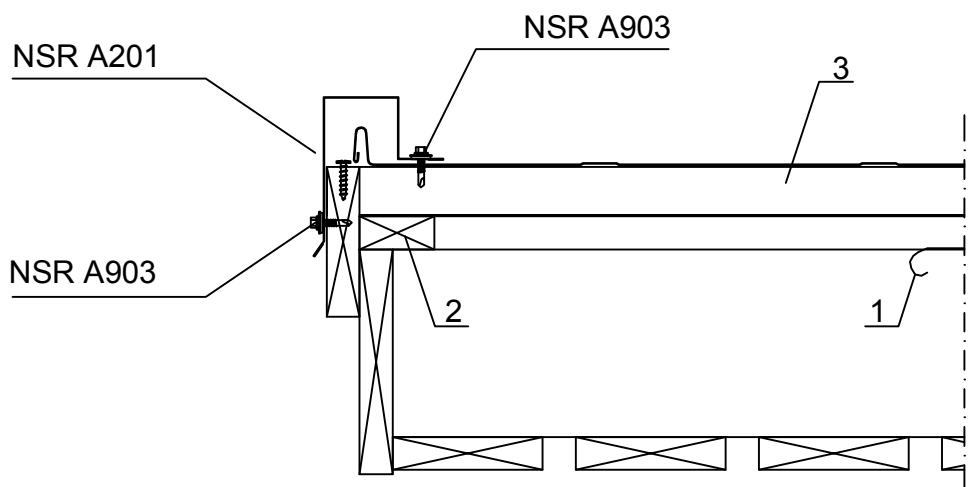
EAVES DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
(EXTRA BATTENS AT EAVES)
4. NORDIC RAINWATER SYSTEM

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1044
Scale 1:5	Project		Filename RPRE104.dwg

VERGE DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS

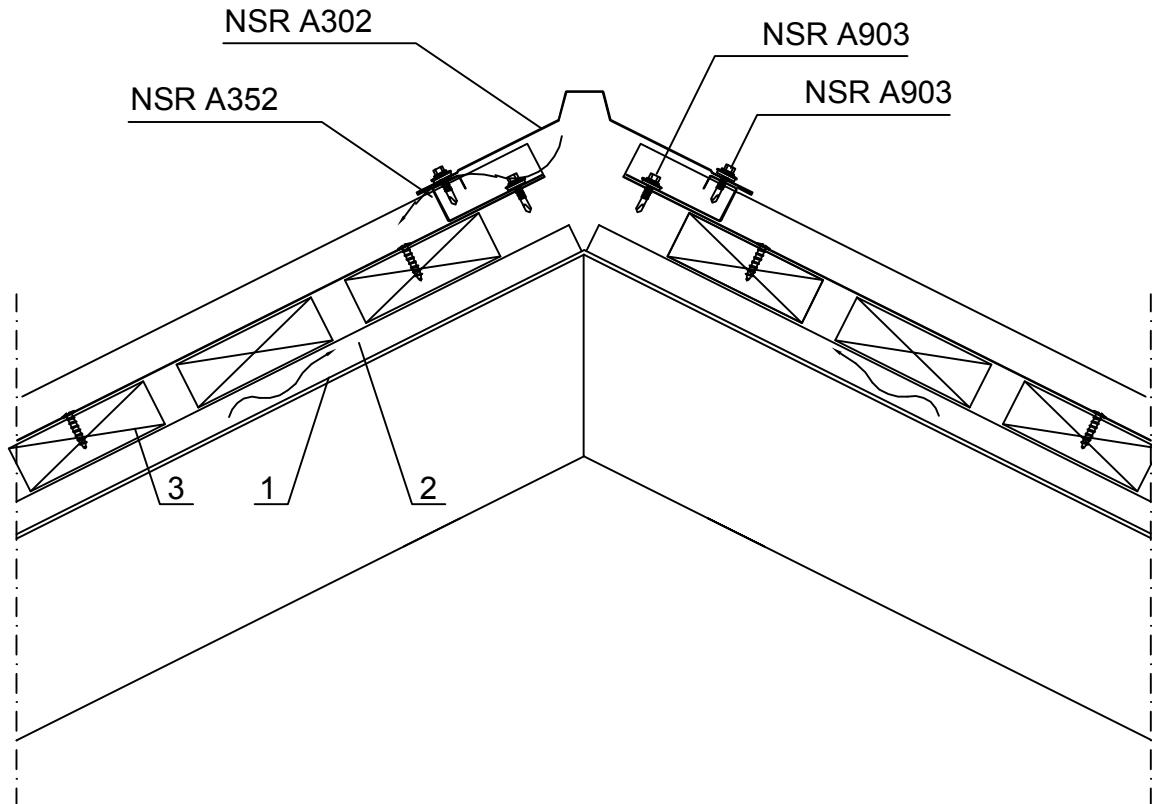


Subject

NSR PREFAB 100
NSR PRE104
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1045
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE104.dwg	

RIDGE DETAIL



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS

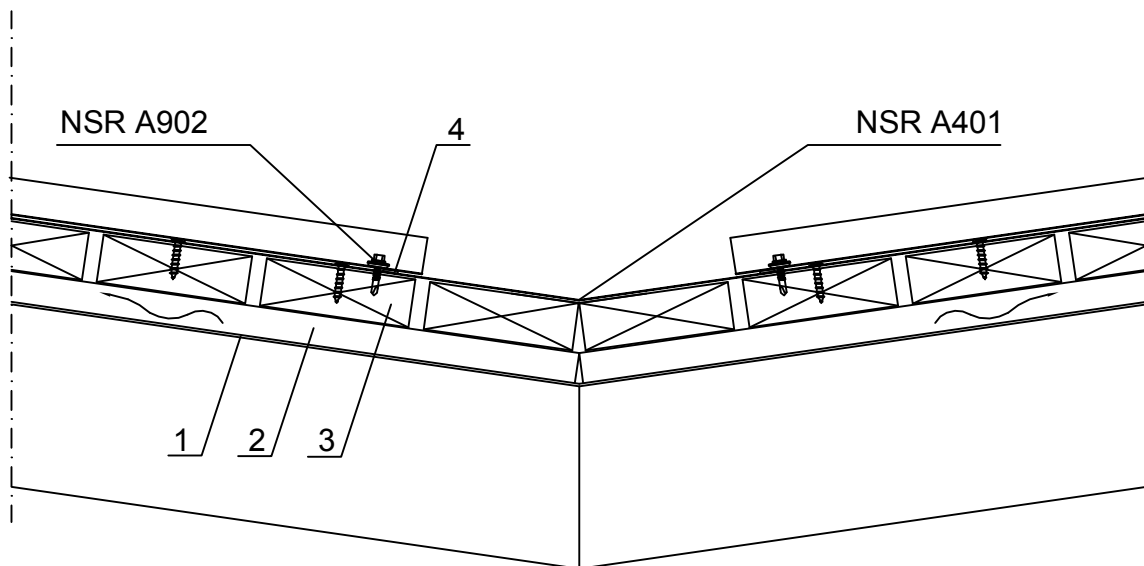
LUVATA

Subject

NSR PREFAB 100
NSR PRE104
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1046
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE104.dwg	

VALLEY DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
4. SEALING BAND

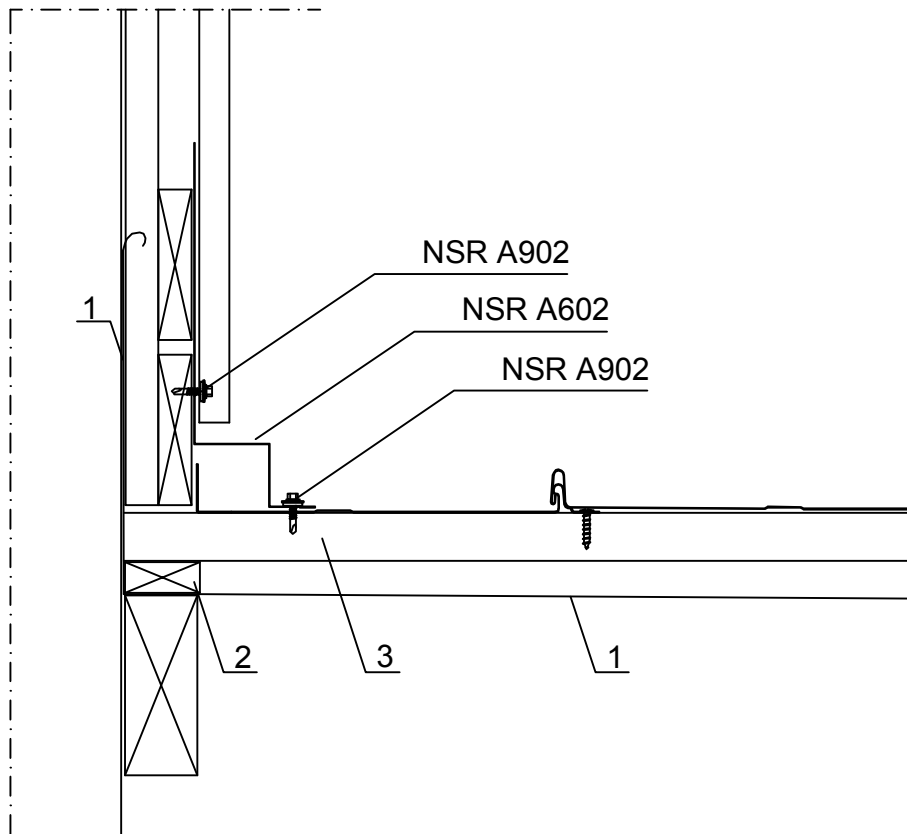


Subject

NSR PREFAB 100
NSR PRE104
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1048
Scale 1:5	Project		Filename

ROOF / WALL JOINT



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS

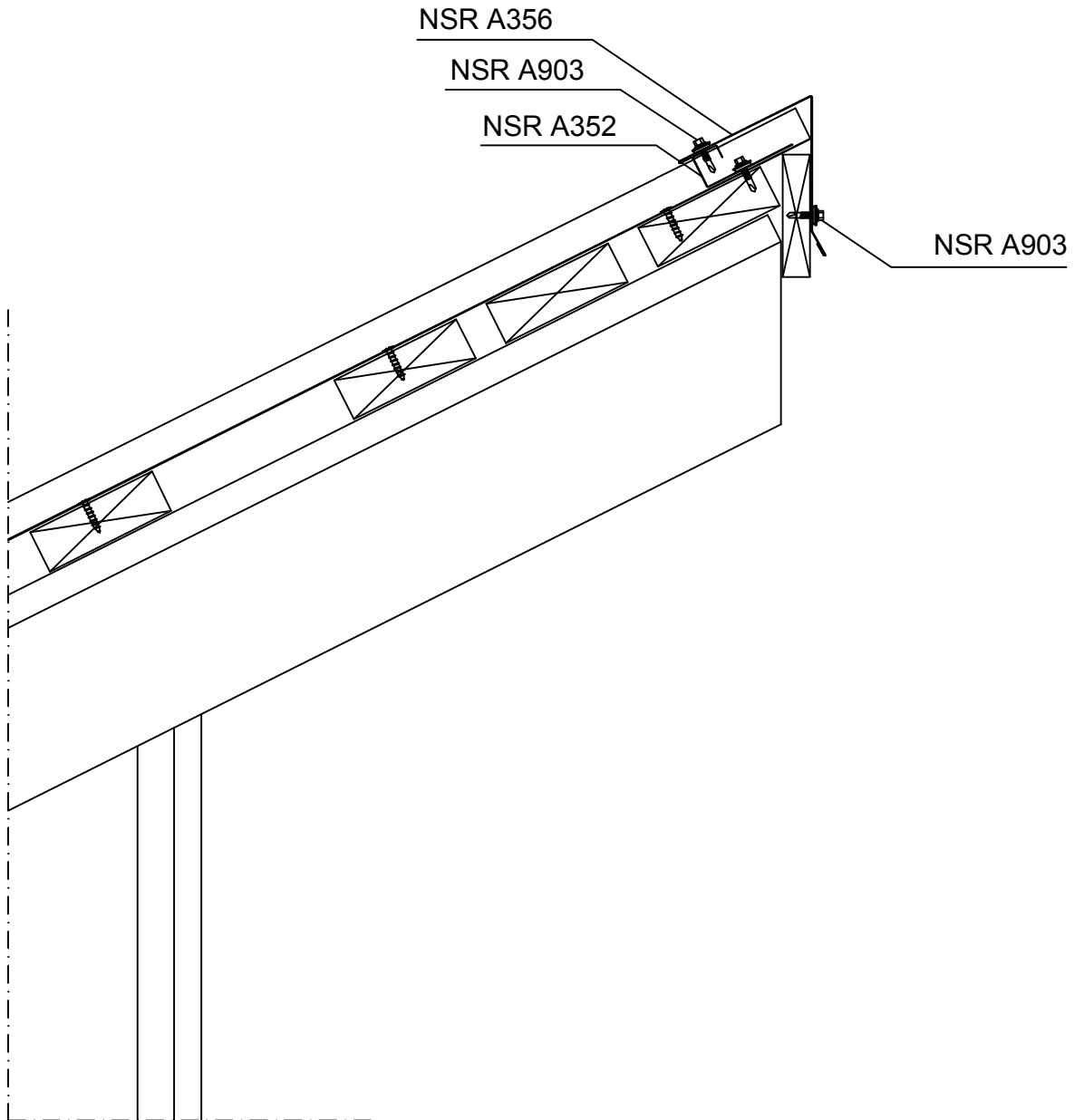
LUVATA

Subject

NSR PREFAB 100 NSR PRE104 CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1049
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE104.dwg	

MONO-RIDGE DETAIL



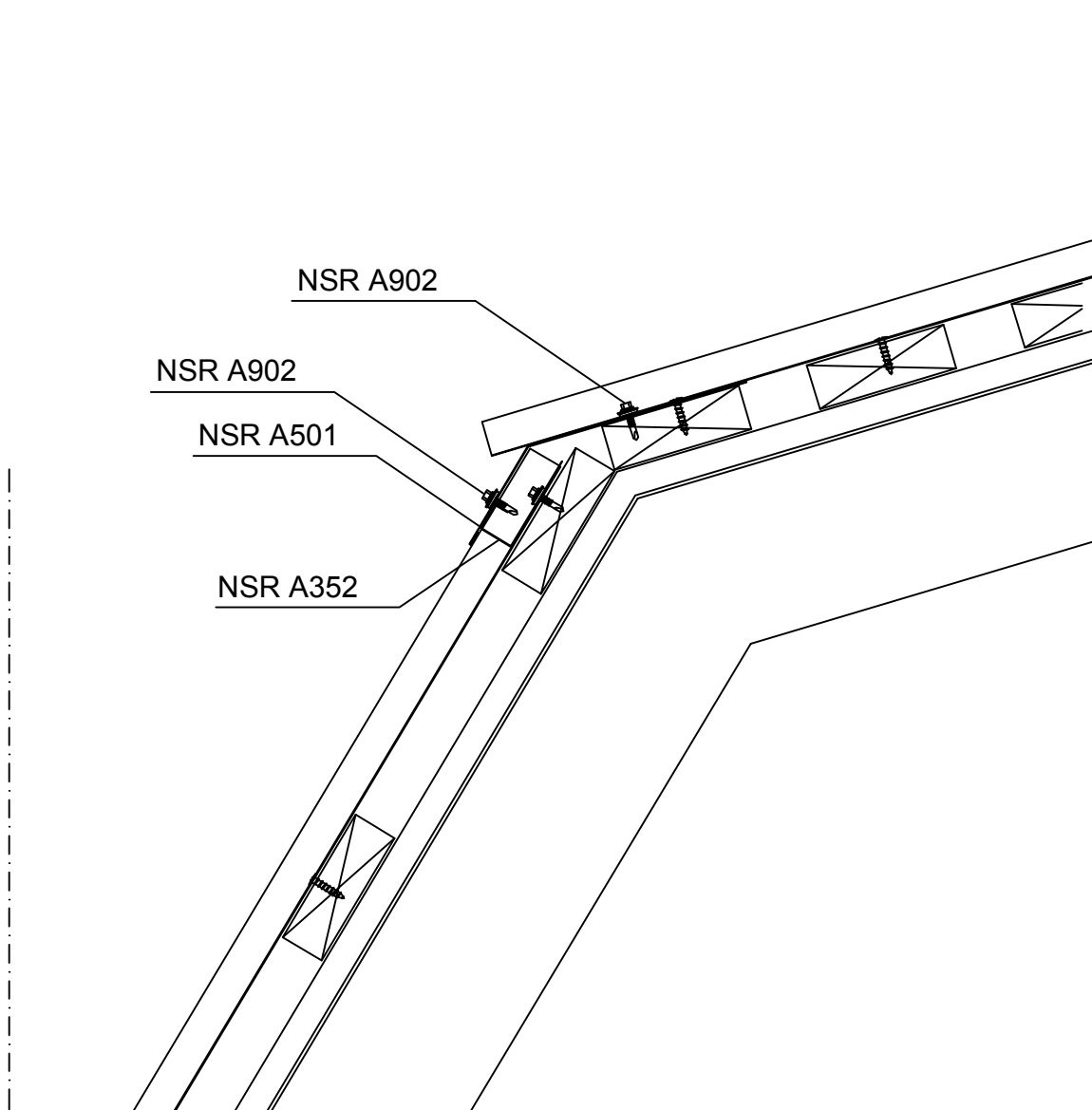


Subject

NSR PREFAB 100
NSR PRE104
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE10410
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE104.dwg	

MANSARD JOINT





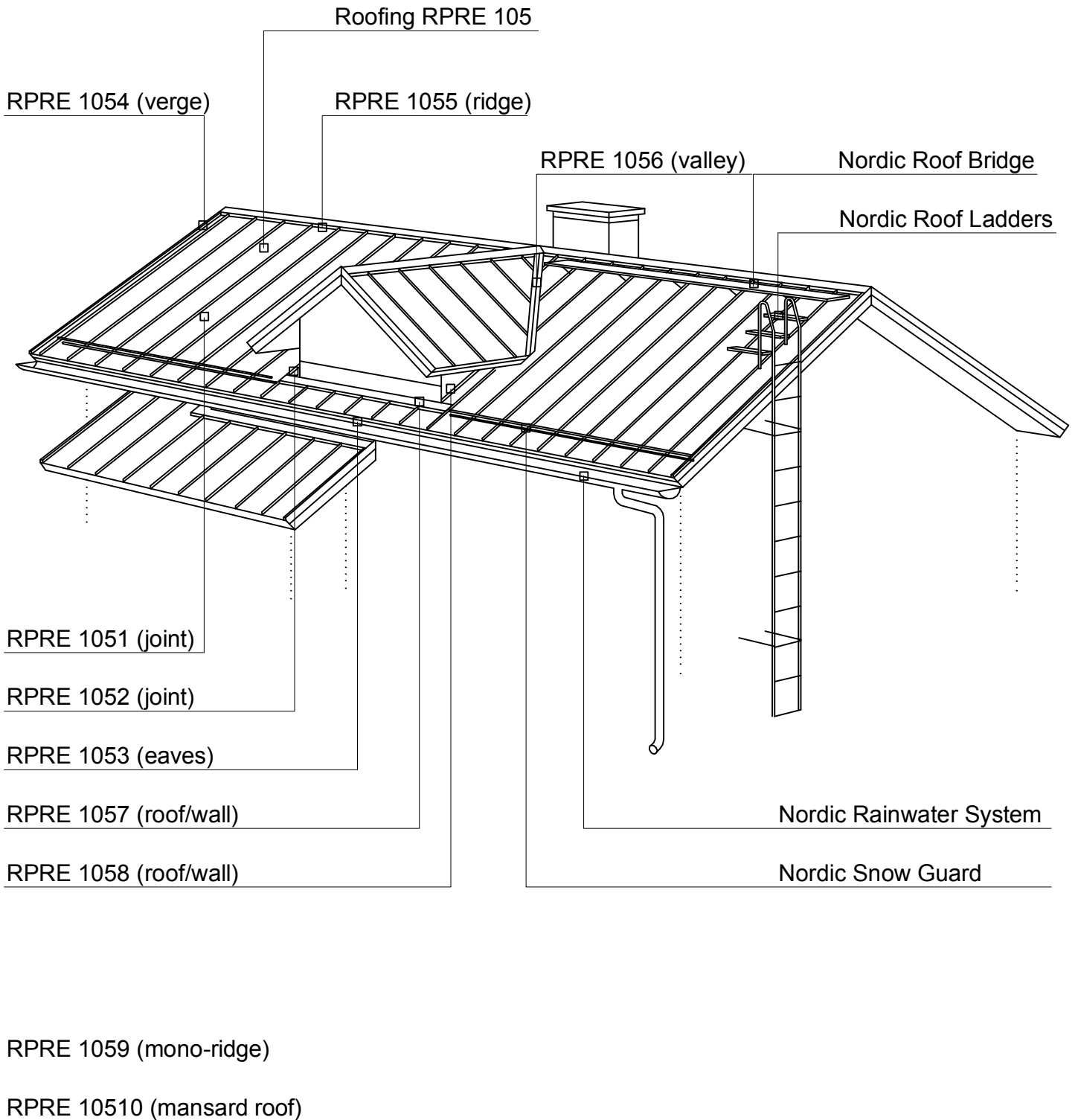
Subject

NSR PREFAB 100

NSR PRE105

DETAIL LINKS

Date	Rev.	Project no.	Dwg-no. RPRE105_3D
Drawn by	Rev.date		
Scale	Project	Filename NSR detail links.dwg	



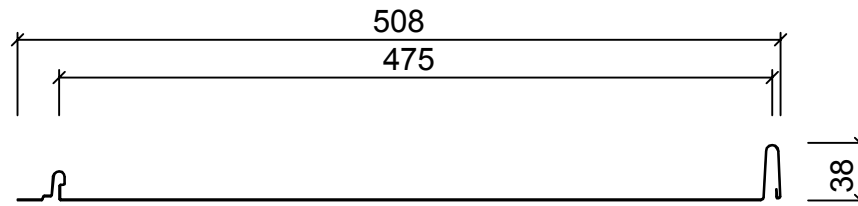


Subject

NSR PREFAB 100
NSR PRE105
DIMENSIONAL DRAWING

Date	Rev.	Project no.	Dwg-no. RPRE105
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE105.dwg	

THICKNESS (t) = 0,6mm
MIN. LENGTH = 600mm
MAX. LENGTH = 8000mm
EFFECTIVE WIDTH = 475mm
WEIGHT=7,03 kg/m²



BATTENS c/c max. 300 mm

Extra battens at eaves and ridge acc. to the structural design

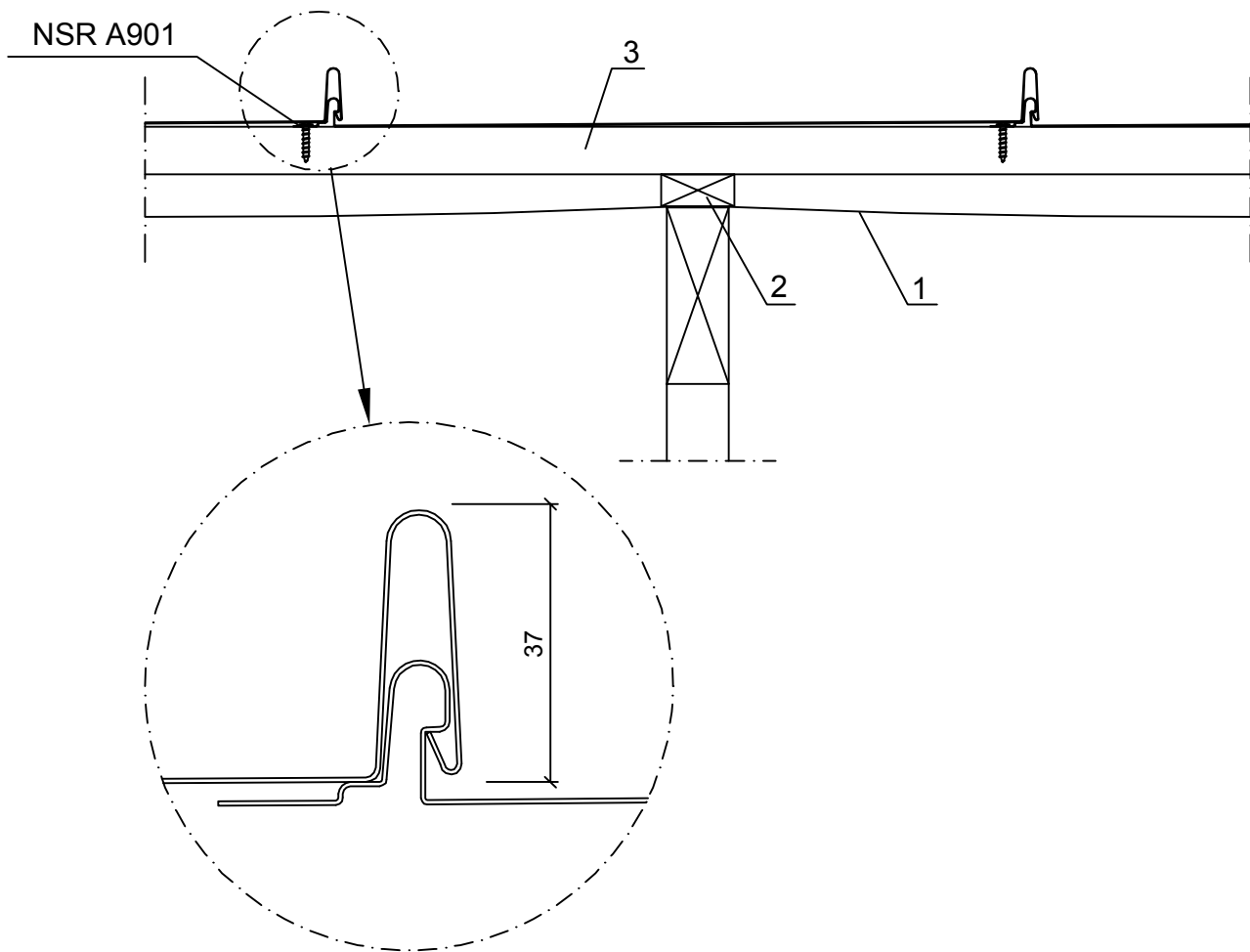
LUVATA

Subject

NSR PREFAB 100
NSR PRE105
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1051
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE105.dwg	

JOINT DETAIL



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS

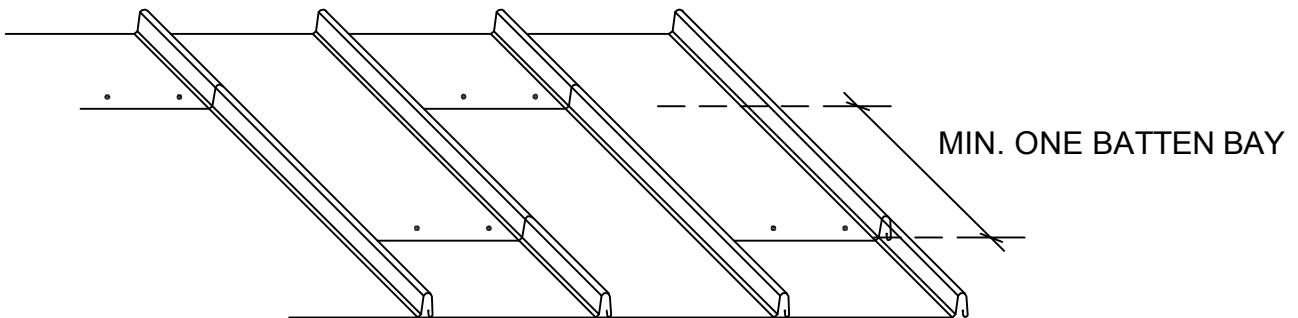
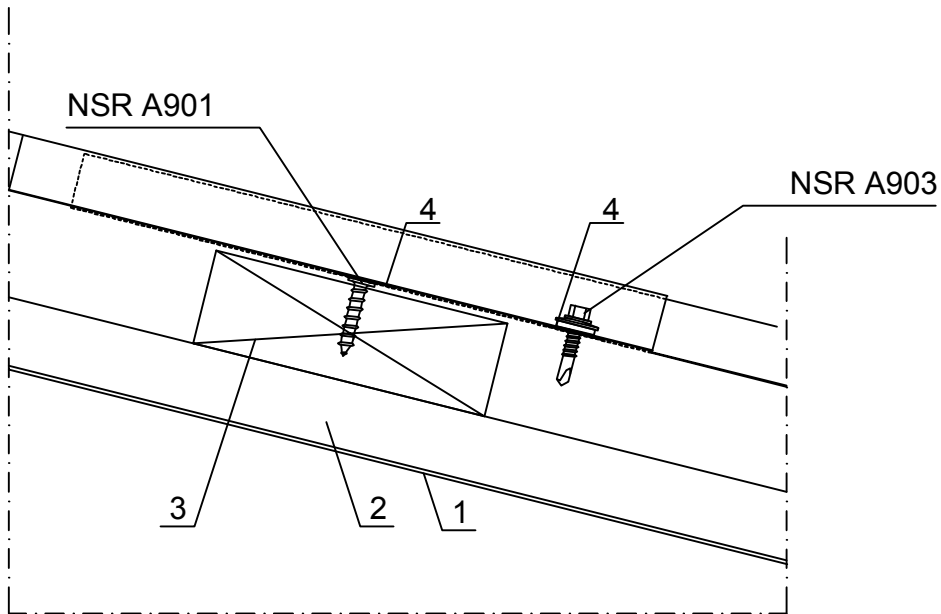


Subject

NSR PREFAB 100
NSR PRE105
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1052
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE105.dwg	

HORIZONTAL JOINT (EXTENSION)



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS
- 4. ELASTIC SEALING COMPOUND

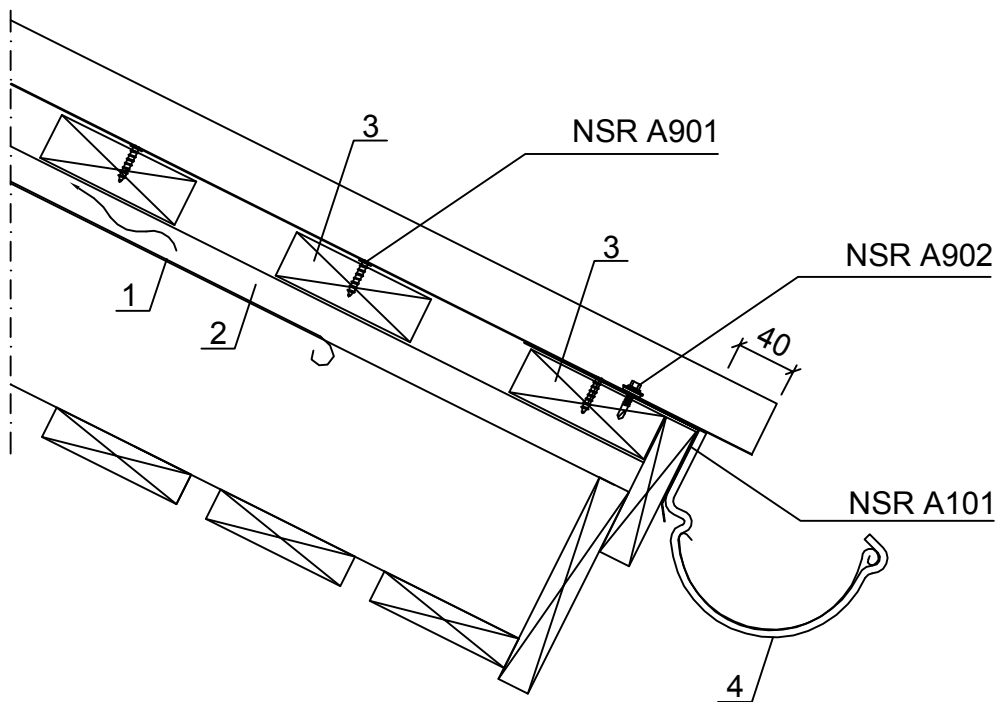
LUVATA

Subject

NSR PREFAB 100
NSR PRE105
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1053
Scale 1:5	Project		Filename RPRE105.dwg

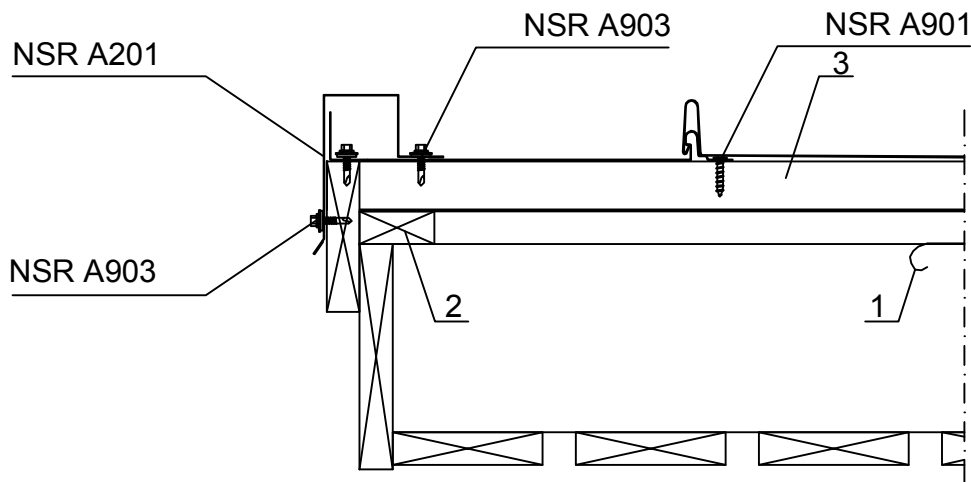
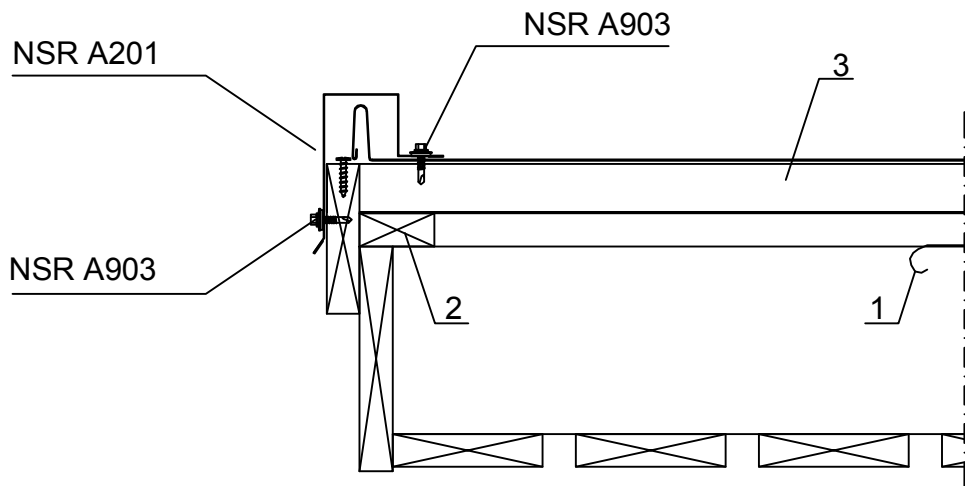
EAVES DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS
(EXTRA BATTENS AT EAVES)
4. NORDIC RAINWATER SYSTEM

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		RPRE1054
Scale 1:5	Project		Filename RPRE105.dwg

VERGE DETAIL



1. UNDERLAYER
2. BATTENS FOR VENTILATION
3. BATTENS

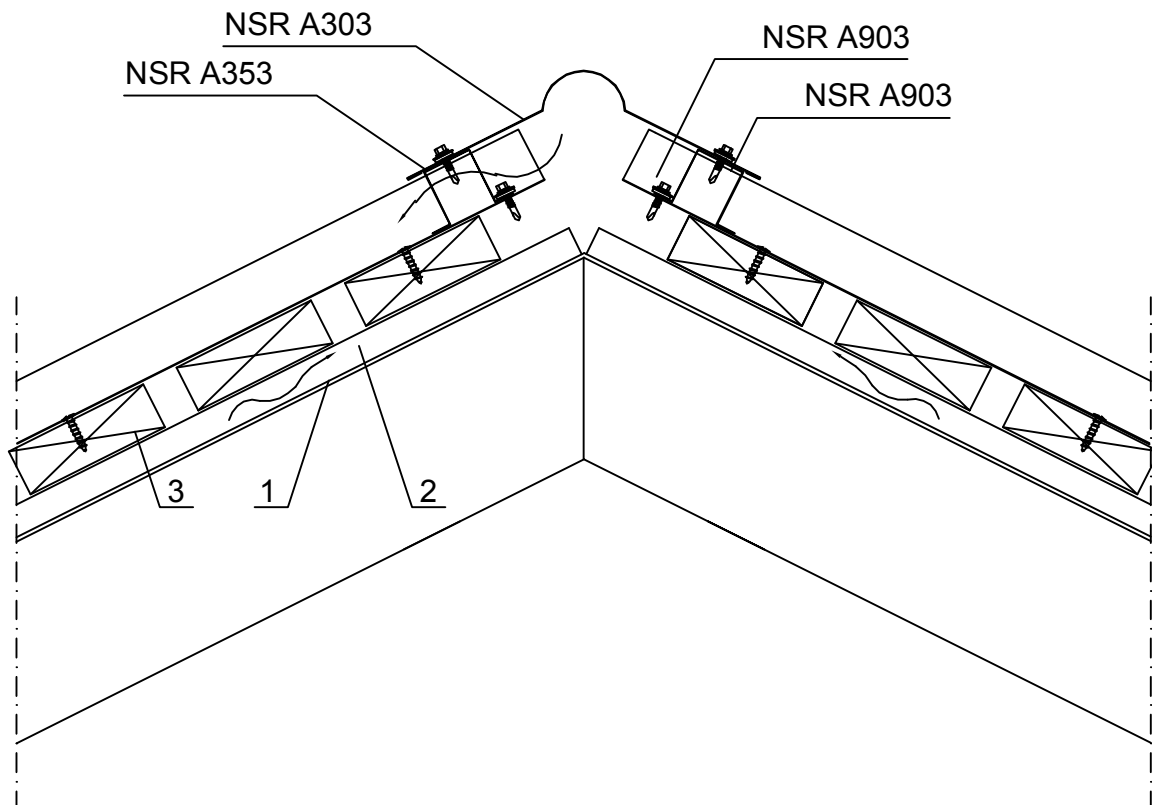


Subject

NSR PREFAB 100
NSR PRE105
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1055
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE105.dwg	

RIDGE DETAIL



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS

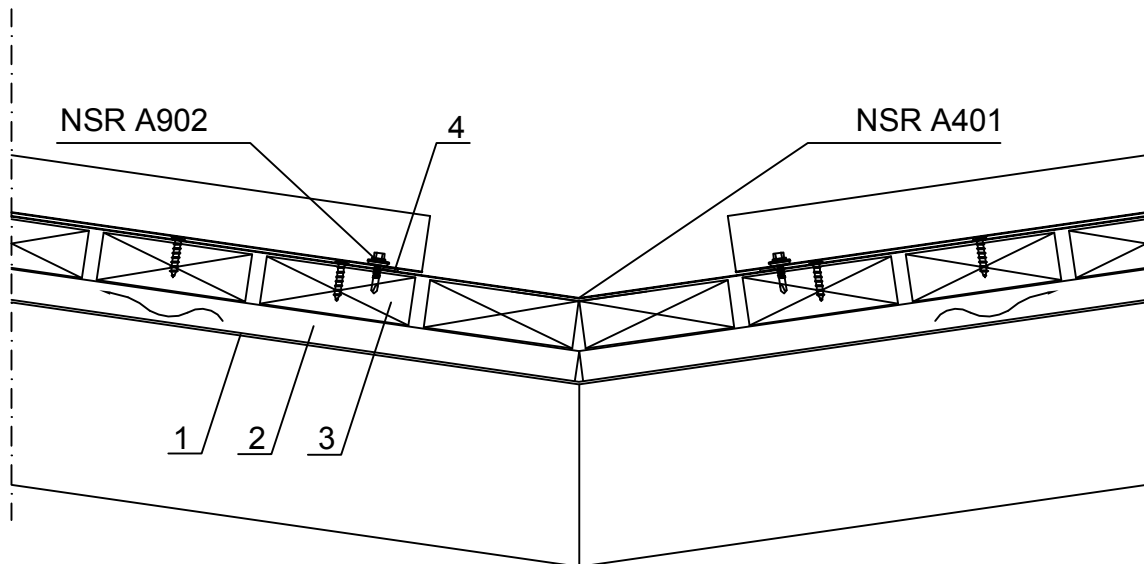


Subject

NSR PREFAB 100
NSR PRE105
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1056
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE105.dwg	

VALLEY DETAIL



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS
- 4. SEALING BAND

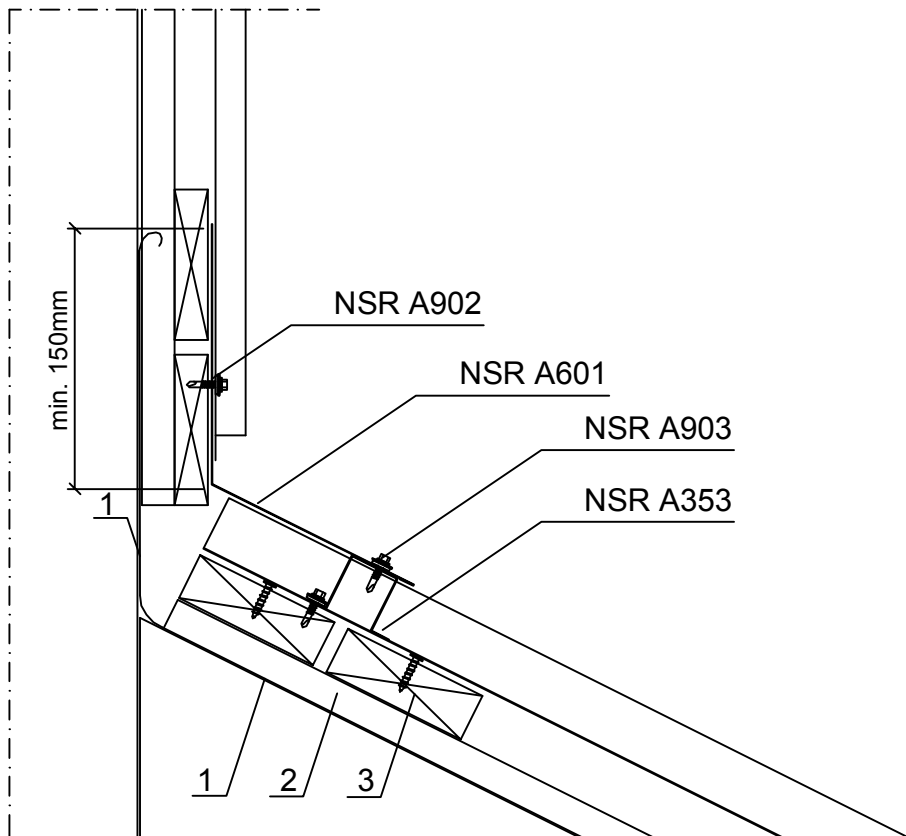


Subject

NSR PREFAB 100
NSR PRE105
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1057
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE105.dwg	

ROOF / WALL JOINT



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS

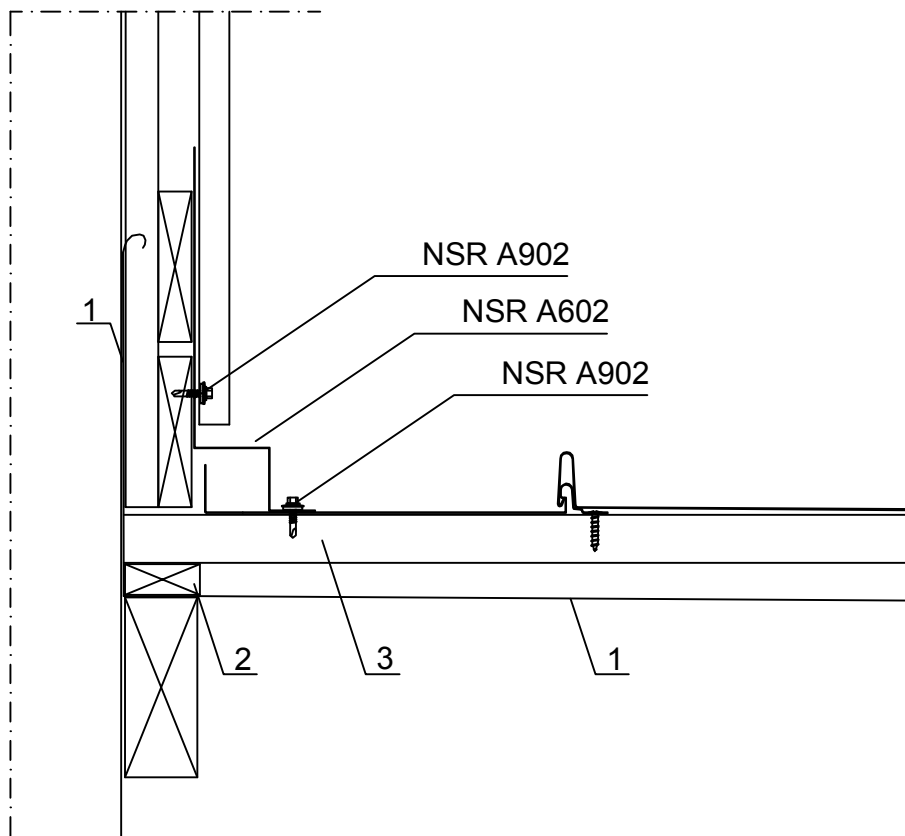


Subject

NSR PREFAB 100
NSR PRE105
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1058
Drawn by	Rev.date		
Scale 1:5	Project	Filename	

ROOF / WALL JOINT



- 1. UNDERLAYER
- 2. BATTENS FOR VENTILATION
- 3. BATTENS

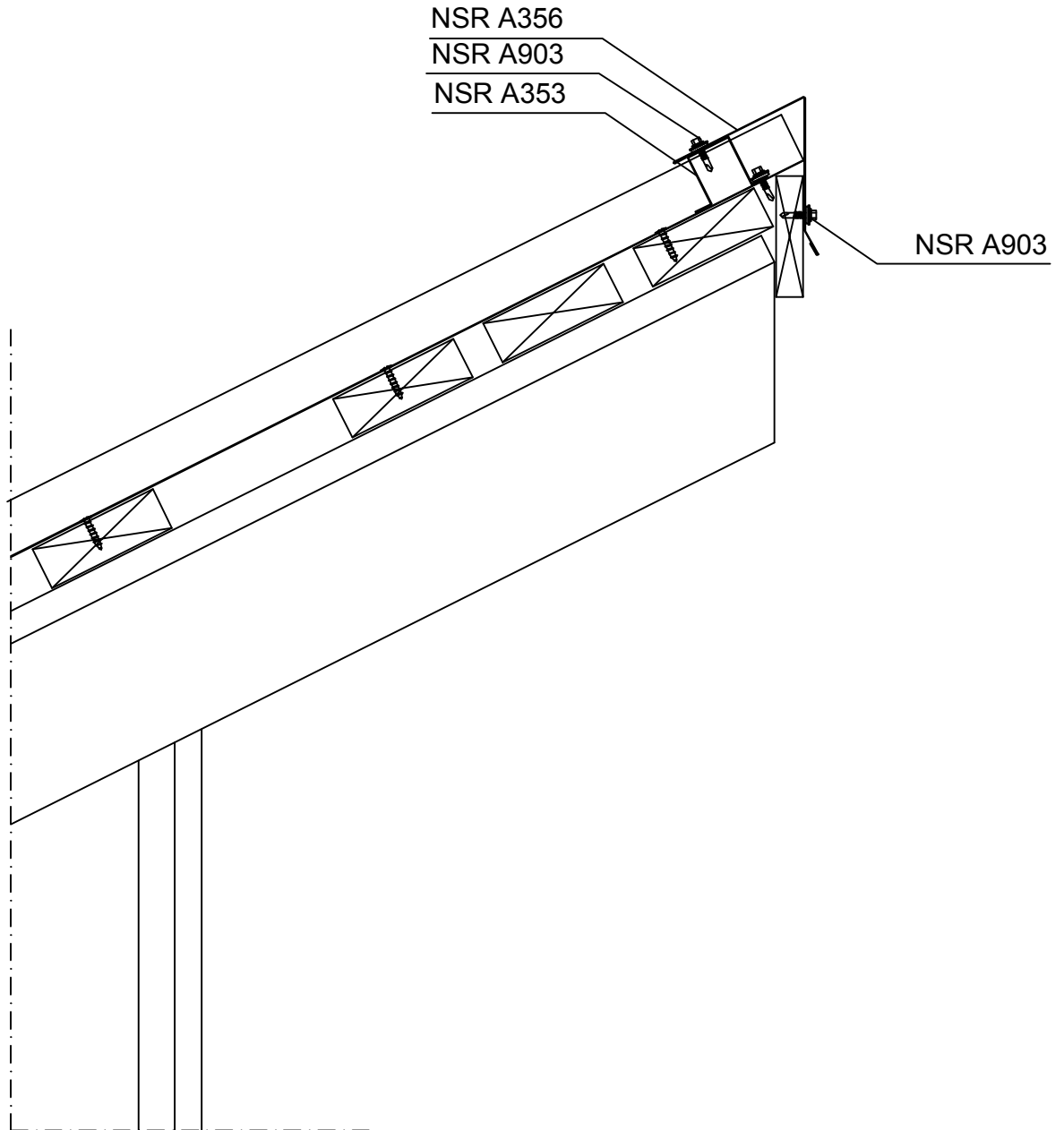


Subject

NSR PREFAB 100
NSR PRE105
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE1059
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE105.dwg	

MONO-RIDGE DETAIL



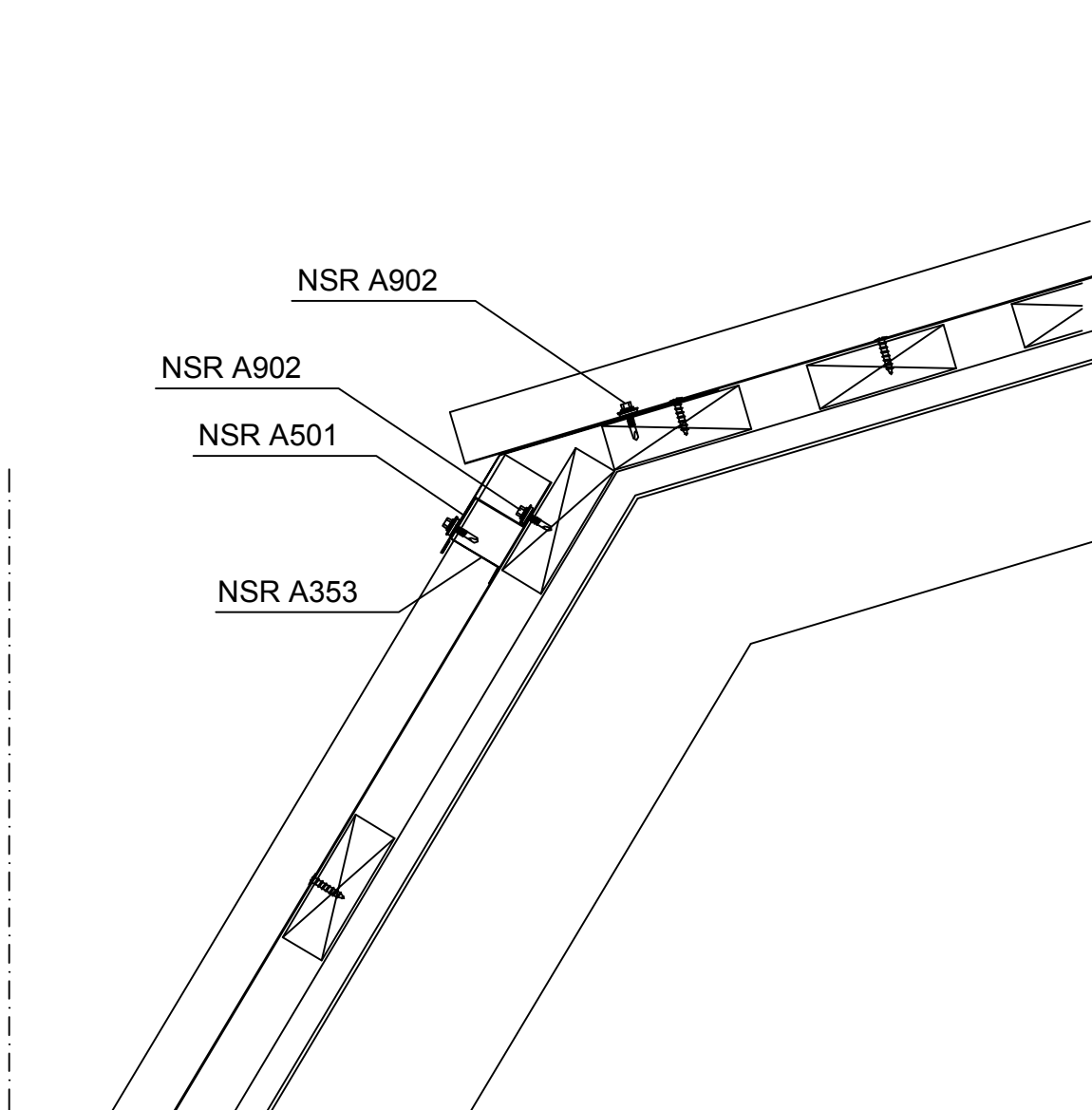


Subject

NSR PREFAB 100
NSR PRE105
CONSTRUCTION DETAIL

Date	Rev.	Project no.	Dwg-no. RPRE10510
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE105.dwg	

MANSARD JOINT





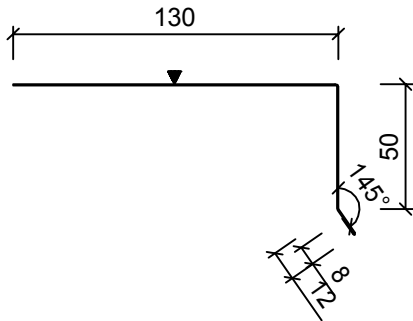
Subject

NSR PREFAB
ACCESSORIES
EAVES FLASHINGS

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		
Scale 1:3	Project	Filename RPRE_ACC	

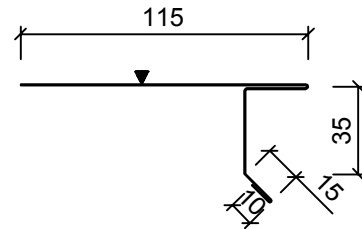
NSR A101

Eaves flashing
Thickness: 0,5 - 0,6 mm
Material width: 200 mm



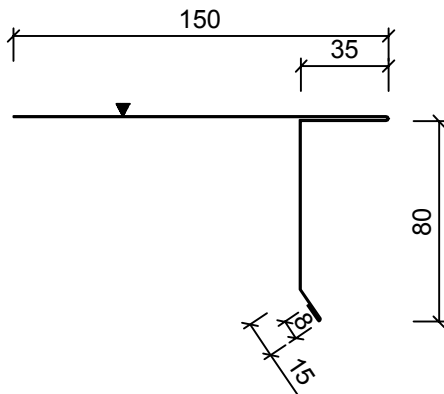
NSR A105

Eaves flashing
Thickness: 0,5 - 0,6 mm
Material width: 200 mm



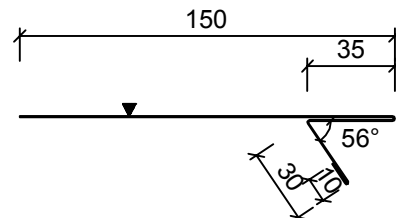
NSR A106

Eaves flashing
Thickness: 0,5 - 0,6 mm
Material width: 235 mm



NSR A107

Eaves flashing
Thickness: 0,5 - 0,6 mm
Material width: 235 mm





Subject

NSR PREFAB
ACCESSORIES
VERGE FLASHINGS

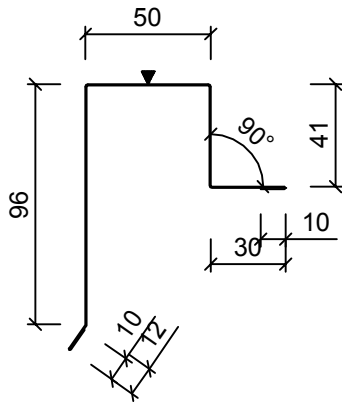
Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		
Scale 1:3	Project	Filename RPRE_ACC	

NSR A201

Verge flashing

Thickness: 0,5 - 0,6 mm

Material width: 250 mm





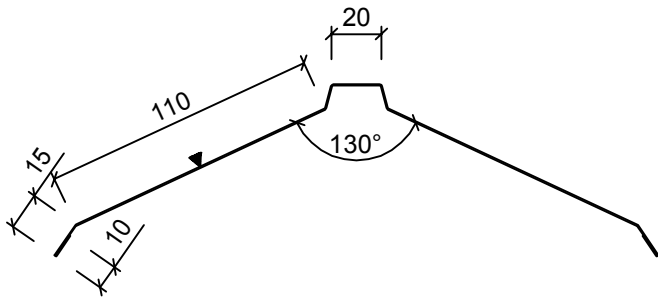
Subject

NSR PREFAB
ACCESSORIES
RIDGE FLASHINGS

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		
Scale 1:3	Project	Filename RPRE_ACC	

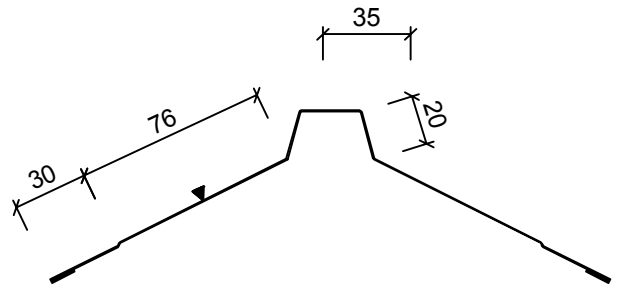
NSR A301

Ridge capping
Thickness: 0,5 - 0,6 mm
Material width: 312 mm



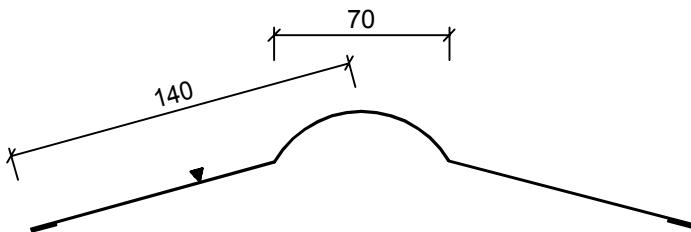
NSR A302

Ridge capping
Thickness: 0,5 - 0,6 mm
Material width: 312 mm



NSR A303

Ridge capping
Thickness: 0,5 - 0,6 mm
Material width: 416 mm





Subject

NSR PREFAB
ACCESSORIES
RIDGE FLASHINGS

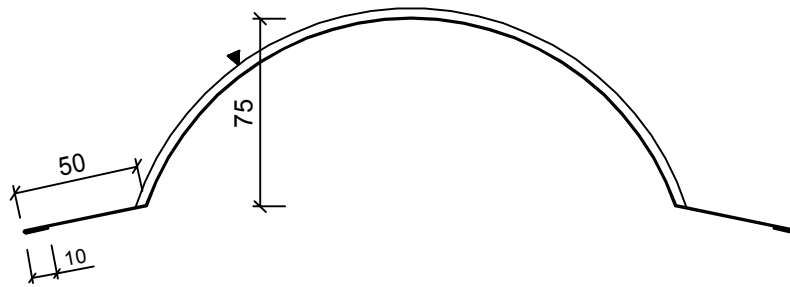
Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		
Scale 1:3	Project	Filename RPRE_ACC	

NSR A304

Ridge capping

Thickness: 0,5 - 0,6 mm

Material width: 400 mm

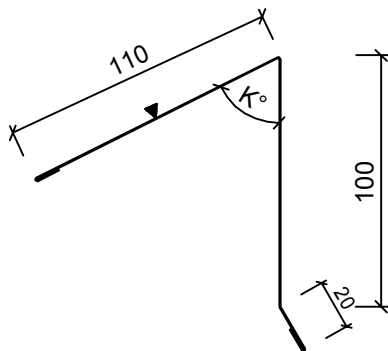


NSR A356

Ridge capping

Thickness: 0,5 - 0,6 mm

Material width: 250 mm





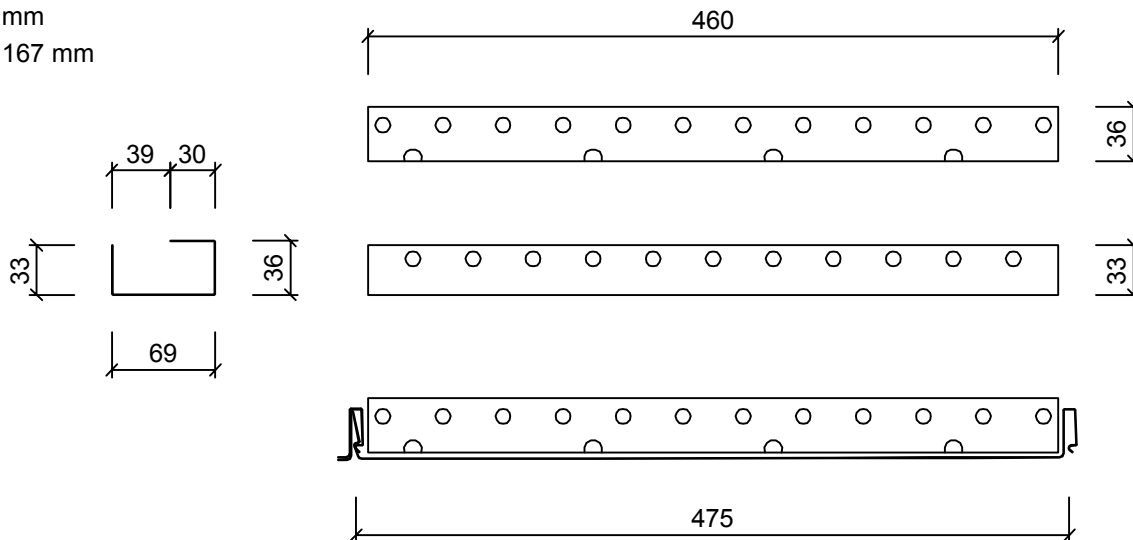
Subject

NSR PREFAB
ACCESSORIES
RIDGE FLASHINGS

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		
Scale 1:5	Project	Filename RPRE_ACC.dwg	

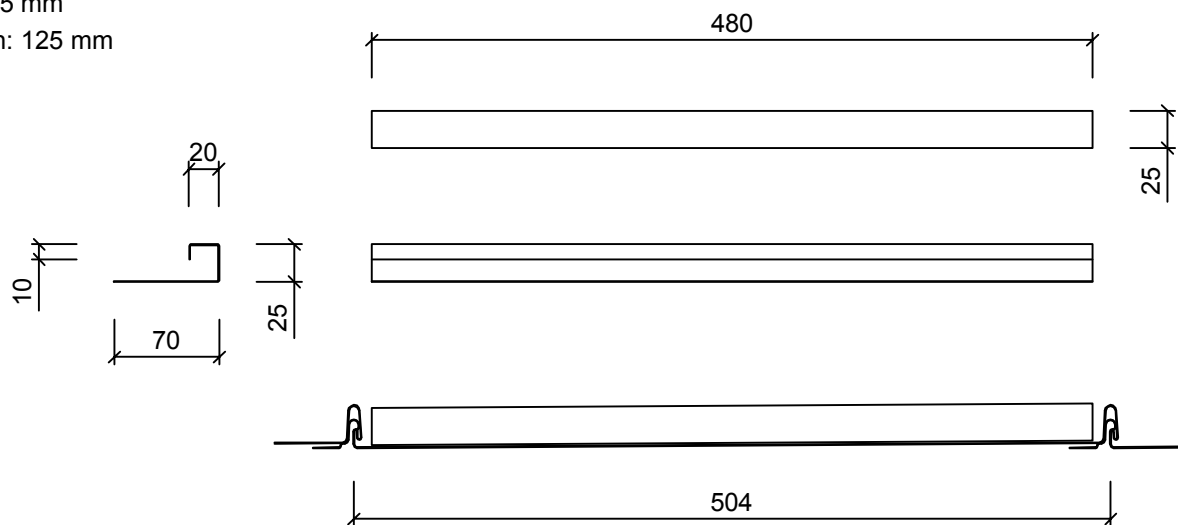
NSR A351

Ridge capping support
Thickness: 0,5 mm
Material width: 167 mm



NSR A352

Ridge capping support
Thickness: 0,5 mm
Material width: 125 mm





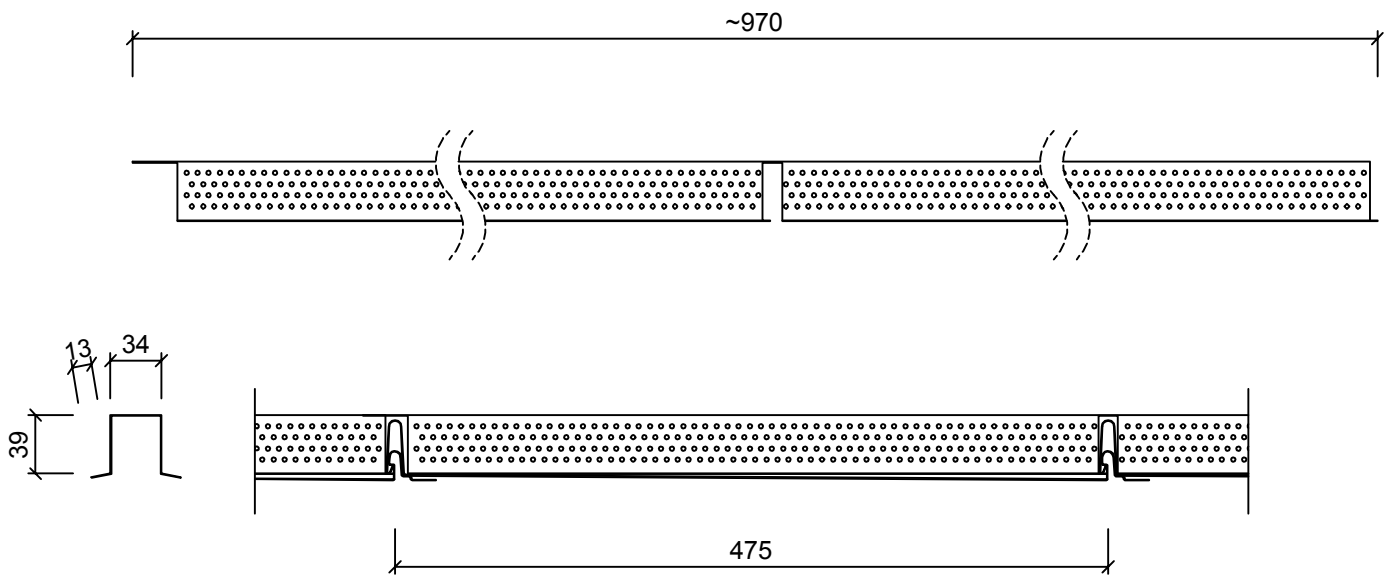
Subject

NSR PREFAB
ACCESSORIES
RIDGE FLASHINGS

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		
Scale 1:5	Project		Filename RPRE_ACC.dwg

NSR A353

Ridge capping support
Thickness: 0,5 mm
Material width: 139 mm





Subject

NSR PREFAB
ACCESSORIES
VALLEY FLASHINGS

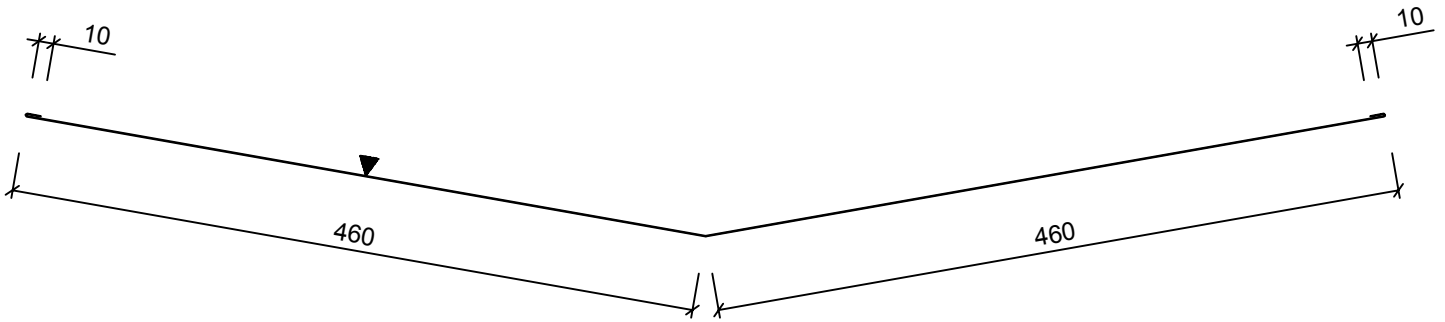
Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		
Scale 1:5	Project		Filename RPRE_ACC.dwg

NSR A401

Valley flashing

Thickness: 0,5 - 0,6 mm

Material width: 940 mm





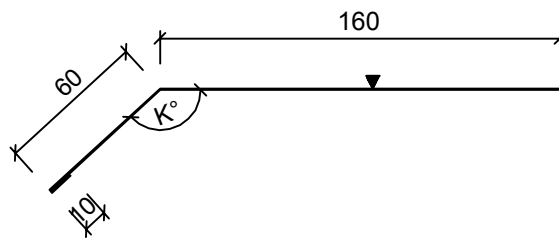
Subject

NSR PREFAB
ACCESSORIES
MANSARD ROOF FLASHINGS

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		
Scale 1:3	Project	Filename RPRE_ACC	

NSR A501

Mansard joint flashing
Thickness: 0,5 - 0,6 mm
Material width: 250 mm





Subject

NSR PREFAB

ACCESSORIES

ROOF / WALL JOINT FLASHINGS

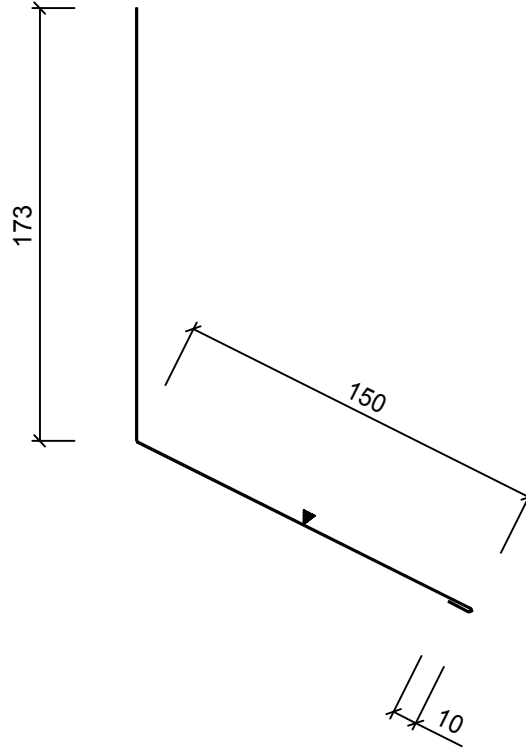
Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		
Scale 1:3	Project	Filename RPRE_ACC	

NSR A601

Roof / wall joint flashing (upstand)

Thickness: 0,5 - 0,6 mm

Material width: 333 mm

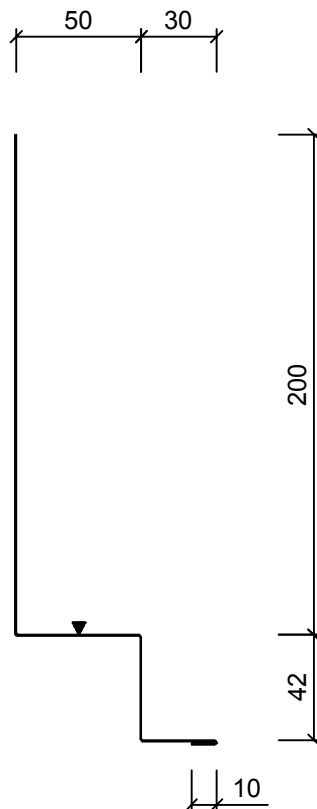


NSR A602

Roof / wall joint flashing (side wall)

Thickness: 0,5 - 0,6 mm

Material width: 333 mm





Subject

NSR PREFAB
ACCESSORIES
FILLERS, SEALANTS

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		
Scale	Project		Filename RPRE_ACC.dwg

NSR A801

Sealing band



Type/size: **3 x 10**
Material: **polyethylene**



Subject

NSR PREFAB

ACCESSORIES

FASTENERS

Date	Rev.	Project no.	Dwg-no.
Drawn by	Rev.date		
Scale	Project	Filename RPRE_ACC.dwg	

NSR A901

Fastening of profiles
metal sheet >> wood



Type/size: **4,2x25**
eg. SFS 512-25 or eq.

Material: **Austenitic Stainless steel, EN 1.4301**

Fastener head: **PH 2**

Packaging size: **250 pcs**

NSR A902

Fastening of profiles and flashings
metal sheet >> wood



Type/size: **5,5x40**
eg. SFS-SXW-S-S14-5,5x40 or eq.

Material: **Austenitic Stainless steel, EN 1.4301**

Fastener head: **8 mm**

Packaging size: **500 pcs**

NSR A903

Fastening of flashings
metal sheet >> metal sheet



Type/size: **4,8x22**
eg. SFS-SL2-S-S14-4,8x22 or eq.

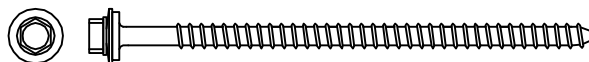
Material: **Austenitic Stainless steel, EN 1.4301**

Fastener head: **8 mm**

Packaging size: **250 pcs**

NSR A904

Fastening of RMOD 301- modules
insulated roof modules >> wood



Type/size: **6,5x127**
eg. SFS-TDA-S-S19-6,5x127 or eq.

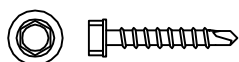
Material: **Austenitic Stainless steel, EN 1.4301**

Fastener head: **8 mm**

Packaging size: **250 pcs**

NSR A905

Fastening of RWS brackets
>> wood



Type/size: **5,5x35**
eg. SFS-SW2-5,5x35 or eq.

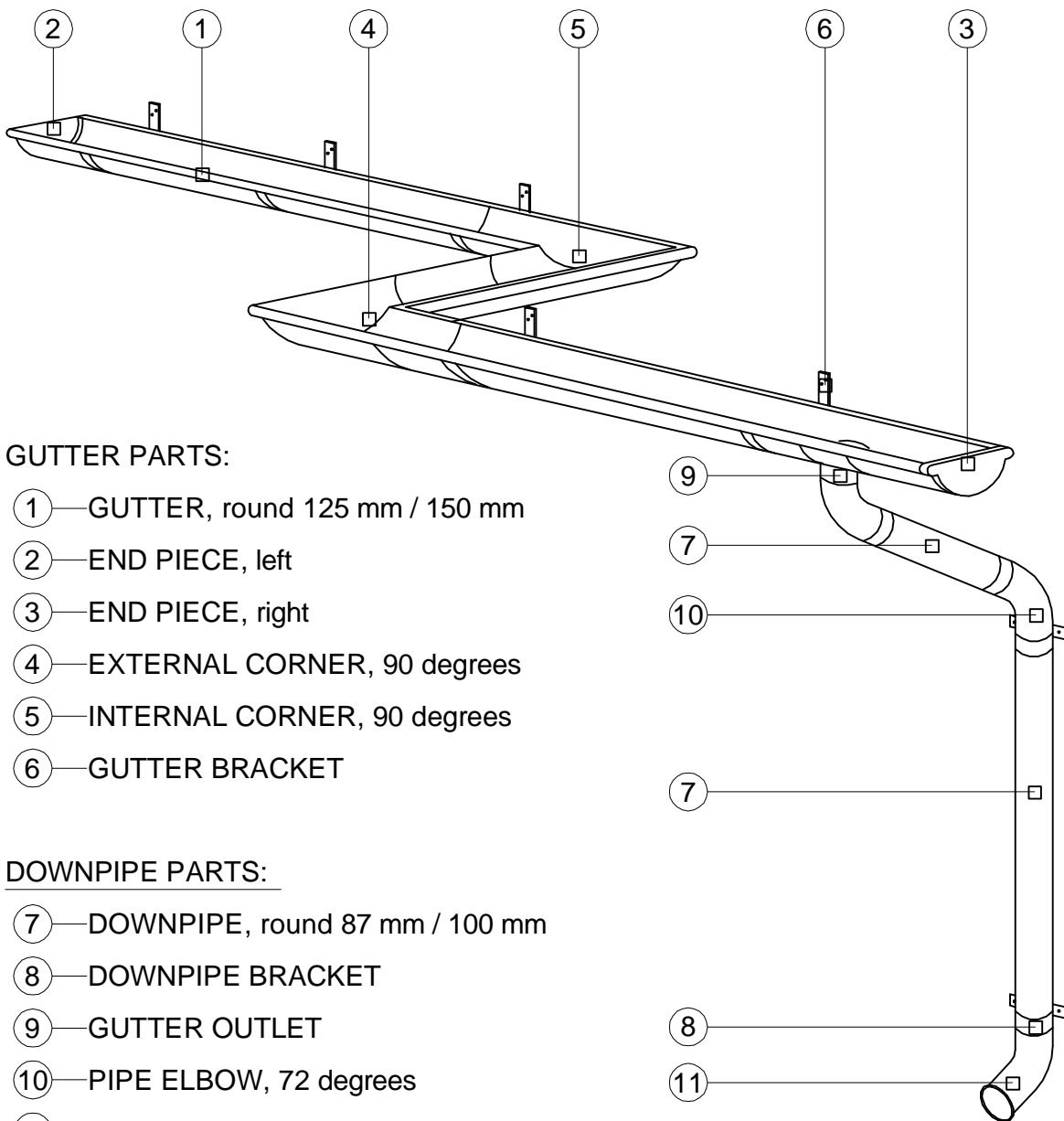
Material: **Austenitic Stainless steel, EN 1.4301**

Fastener head: **8 mm**

Packaging size: **250 pcs**

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	

NORDIC RAINWATER SYSTEM



GUTTER PARTS:

- ① — GUTTER, round 125 mm / 150 mm
- ② — END PIECE, left
- ③ — END PIECE, right
- ④ — EXTERNAL CORNER, 90 degrees
- ⑤ — INTERNAL CORNER, 90 degrees
- ⑥ — GUTTER BRACKET

DOWNPIPE PARTS:

- ⑦ — DOWNPIPE, round 87 mm / 100 mm
- ⑧ — DOWNPIPE BRACKET
- ⑨ — GUTTER OUTLET
- ⑩ — PIPE ELBOW, 72 degrees
- ⑪ — OUTLET, 72 degrees

- ⑫ — FUNNEL, RECTANGULAR
- ⑫ — FUNNEL, ROUND

MATERIALS:

	NORDIC STANDARD
	NORDIC BROWN
	NORDIC GREEN

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	

① — GUTTER



MATERIALS:

- NORDIC STANDARD
- NORDIC BROWN
- NORDIC GREEN

1. GUTTER, ROUND 125 mm

CODE	DIMENSIONS	LENGHT	WEIGHTkg/unit	
 RW DA 28006	d=125 mm, t=0,60 mm	2000	1,50 kg/m (3,00 kg/pc)	
 RW DAO 28006	d=125 mm, t=0,60 mm	2000	1,50 kg/m (3,00 kg/pc)	
 RW DAP 28006	d=125 mm, t=0,60 mm	2000	1,50 kg/m (3,00 kg/pc)	

2. GUTTER, ROUND 150 mm

CODE	DIMENSIONS	LENGHT	WEIGHTkg/unit	
 RW DA 33306	d=150 mm, t=0,60 mm	2000	1,79 kg/m (3,58 kg/pc)	
 RW DAO 33306	d=150 mm, t=0,60 mm	2000	1,79 kg/m (3,58 kg/pc)	
 RW DAP 33306	d=150 mm, t=0,60 mm	2000	1,79 kg/m (3,58 kg/pc)	



Subject




NSR RAINWATER SYSTEM PARTS

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	




② — END PIECE, left






MATERIALS:

-  NORDIC STANDARD
-  NORDIC BROWN
-  NORDIC GREEN

1. END PIECE, left (gutter, round 125 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRBDLL 280	d=125 mm, t=0,60 mm	0,12 kg/pc
 RW ZRBDLLO 280	d=125 mm, t=0,60 mm	0,12 kg/pc
 RW ZRBDLLP 280	d=125 mm, t=0,60 mm	0,12 kg/pc

2. END PIECE, left (gutter, round 150 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRBDLL 333	d=150 mm, t=0,60 mm	0,15 kg/pc
 RW ZRBDLLO 333	d=150 mm, t=0,60 mm	0,15 kg/pc
 RW ZRBDLLP 333	d=150 mm, t=0,60 mm	0,15 kg/pc



Subject




NSR RAINWATER SYSTEM PARTS

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	




③ — END PIECE, right






MATERIALS:

-  NORDIC STANDARD
-  NORDIC BROWN
-  NORDIC GREEN

1. END PIECE, right (gutter, round 125 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRBDRL 280	d=125 mm, t=0,60 mm	0,12 kg/pc
 RW ZRBDRL 280	d=125 mm, t=0,60 mm	0,12 kg/pc
 RW ZRBDRLP 280	d=125 mm, t=0,60 mm	0,12 kg/pc

2. END PIECE, right (gutter, round 150 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRBDRL 333	d=150 mm, t=0,60 mm	0,15 kg/pc
 RW ZRBDRL 333	d=150 mm, t=0,60 mm	0,15 kg/pc
 RW ZRBDRLP 333	d=150 mm, t=0,60 mm	0,15 kg/pc

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	

④ — EXTERNAL CORNER



MATERIALS:

- NORDIC STANDARD
- NORDIC BROWN
- NORDIC GREEN

1. EXTERNAL CORNER (gutter, round 125 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRWIAT 280	d=125 mm, t=0,60 mm	1,20 kg/pc
 RW ZRWIATO 280	d=125 mm, t=0,60 mm	1,20 kg/pc
 RW ZRWIATP 280	d=125 mm, t=0,60 mm	1,20 kg/pc

2. EXTERNAL CORNER (gutter, round 150 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRWIAT 333	d=150 mm, t=0,60 mm	1,25 kg/pc
 RW ZRWIATO 333	d=150 mm, t=0,60 mm	1,25 kg/pc
 RW ZRWIATP 333	d=150 mm, t=0,60 mm	1,25 kg/pc

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	

⑤ — INTERNAL CORNER



MATERIALS:

- NORDIC STANDARD
- NORDIC BROWN
- NORDIC GREEN

1. INTERNAL CORNER (gutter, round 125 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRWIIT 280	d=125 mm, t=0,60 mm	1,20 kg/pc
 RW ZRWIITO 280	d=125 mm, t=0,60 mm	1,20 kg/pc
 RW ZRWIITP 280	d=125 mm, t=0,60 mm	1,20 kg/pc

2. INTERNAL CORNER (gutter, round 150 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRWIIT 333	d=150 mm, t=0,60 mm	1,25 kg/pc
 RW ZRWIITO 333	d=150 mm, t=0,60 mm	1,25 kg/pc
 RW ZRWIITP 333	d=150 mm, t=0,60 mm	1,25 kg/pc



Subject




NSR RAINWATER SYSTEM PARTS

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	




⑥ — GUTTER BRACKET






MATERIALS:

-  NORDIC STANDARD
-  NORDIC BROWN
-  NORDIC GREEN

1. GUTTER BRACKET (gutter, round 125 mm)

CODE	DIMENSIONS	WEIGHTkg/unit	
 RW ZRTRK 28304	d=125 mm, b=30 mm, t=4,0 mm	0,32 kg/pc	
 RW ZRTRKO 28304	d=125 mm, b=30 mm, t=4,0 mm	0,32 kg/pc	
 RW ZRTRKP 28004	d=125 mm, b=30 mm, t=4,0 mm	0,32 kg/pc	

2. GUTTER BRACKET (gutter, round 150 mm)

CODE	DIMENSIONS	WEIGHTkg/unit	
 RW ZRTRK 33305	d=150 mm, b=30 mm, t=5,0 mm	0,35 kg/pc	
 RW ZRTRKO 33305	d=150 mm, b=30 mm, t=5,0 mm	0,35 kg/pc	
 RW ZRTRKP 33305	d=150 mm, b=30 mm, t=5,0 mm	0,35 kg/pc	

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	

⑦ — DOWNPIPE



MATERIALS:

- NORDIC STANDARD
- NORDIC BROWN
- NORDIC GREEN

1. DOWNPIPE, ROUND 87 mm

CODE	DIMENSIONS	LENGHT	WEIGHTkg/unit	
 RW ROS 08706	d=87 mm, t=0,60 mm	2000	1,55 kg/m (3,10 kg/pc)	
 RW ROFO 08706	d=87 mm, t=0,60 mm	2000	1,55 kg/m (3,10 kg/pc)	
 RW ROFP 08706	d=87 mm, t=0,60 mm	2000	1,55 kg/m (3,10 kg/pc)	

2. DOWNPIPE, ROUND 100 mm

CODE	DIMENSIONS	LENGHT	WEIGHTkg/unit	
 RW ROS 10006	d=100 mm, t=0,60 mm	2000	1,77 kg/m (3,54 kg/pc)	
 RW ROFO 10006	d=100 mm, t=0,60 mm	2000	1,77 kg/m (3,54 kg/pc)	
 RW ROFP 10006	d=100 mm, t=0,60 mm	2000	1,77 kg/m (3,54 kg/pc)	

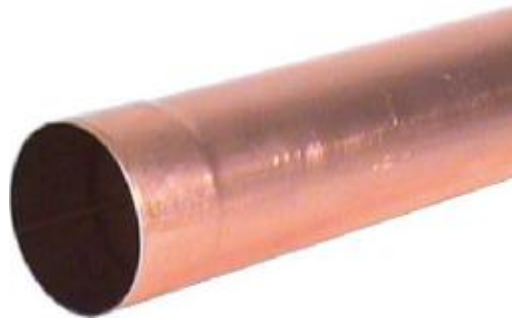


Subject




NSR RAINWATER SYSTEM PARTS

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	




⑦ — DOWNPIPE






MATERIALS:

-  NORDIC STANDARD
-  NORDIC BROWN
-  NORDIC GREEN

1. DOWNPIPE, ROUND 87 mm

CODE	DIMENSIONS	LENGHT	WEIGHTkg/unit	
 RW ROS 08706	d=87 mm, t=0,60 mm	1000	1,55 kg/m (1,55 kg/pc)	
 RW ROFO 08706	d=87 mm, t=0,60 mm	1000	1,55 kg/m (1,55 kg/pc)	
 RW ROFP 08706	d=87 mm, t=0,60 mm	1000	1,55 kg/m (1,55 kg/pc)	

2. DOWNPIPE, ROUND 100 mm

CODE	DIMENSIONS	LENGHT	WEIGHTkg/unit	
 RW ROS 10006	d=100 mm, t=0,60 mm	1000	1,77 kg/m (1,77 kg/pc)	
 RW ROFO 10006	d=100 mm, t=0,60 mm	1000	1,77 kg/m (1,77 kg/pc)	
 RW ROFP 10006	d=100 mm, t=0,60 mm	1000	1,77 kg/m (1,77 kg/pc)	

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	

⑧ — DOWNPIPE BRACKET



MATERIALS:

- NORDIC STANDARD
- NORDIC BROWN
- NORDIC GREEN

1. DOWNPIPE BRACKET (downpipe, round 87 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRSK 087	d=87 mm	0,15 kg/pc
 RW ZRSKO 087	d=87 mm	0,15 kg/pc
 RW ZRSKP 087	d=87 mm	0,15 kg/pc

2. DOWNPIPE BRACKET (downpipe, round 100 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRSK 100	d=100 mm	0,20 kg/pc
 RW ZRSKO 100	d=100 mm	0,20 kg/pc
 RW ZRSKP 100	d=100 mm	0,20 kg/pc



Subject




NSR RAINWATER SYSTEM PARTS

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	




⑨ — GUTTER OUTLET






MATERIALS:

-  NORDIC STANDARD
-  NORDIC BROWN
-  NORDIC GREEN

1. GUTTER OUTLET (gutter, round 100 mm, downpipe, round 87 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZSTDST 280087		0,55 kg/pc
 RW ZSTDO 280087		0,55 kg/pc
 RW ZSTDP 280087		0,55 kg/pc

2. GUTTER OUTLET (gutter, round 150 mm, downpipe, round 100 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZSTDST 333100		0,65 kg/pc
 RW ZSTDO 333100		0,65 kg/pc
 RW ZSTDP 333100		0,65 kg/pc

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	

⑩ — PIPE ELBOW



MATERIALS:

- NORDIC STANDARD
- NORDIC BROWN
- NORDIC GREEN

1. PIPE ELBOW (downpipe, round 87 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRBO 72087	d=87 mm, t=0,60 mm, 72 degr.	0,38 kg/pc
 RW ZRBOO 72087	d=87 mm, t=0,60 mm, 72 degr.	0,38 kg/pc
 RW ZRBOP 72087	d=87 mm, t=0,60 mm, 72 degr.	0,38 kg/pc

2. PIPE ELBOW (downpipe, round 100 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRBO 72100	d=100 mm, t=0,60 mm, 72 degr.	0,46 kg/pc
 RW ZRBOO 72100	d=100 mm, t=0,60 mm, 72 degr.	0,46 kg/pc
 RW ZRBOP 72100	d=100 mm, t=0,60 mm, 72 degr.	0,46 kg/pc



Subject




NSR RAINWATER SYSTEM PARTS

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	




⑪ — OUTLET






MATERIALS:

-  NORDIC STANDARD
-  NORDIC BROWN
-  NORDIC GREEN

1. OUTLET (downpipe, round 87 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRBOW 72087	d=87 mm, t=0,60 mm, 72 degr.	0,40 kg/pc
 RW ZRBOWO 72087	d=87 mm, t=0,60 mm, 72 degr.	0,40 kg/pc
 RW ZRBOWP 72087	d=87 mm, t=0,60 mm, 72 degr.	0,40 kg/pc

2. OUTLET (downpipe, round 100 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRBOW 72100	d=100 mm, t=0,60 mm, 72 degr.	0,50 kg/pc
 RW ZRBOWO 72100	d=100 mm, t=0,60 mm, 72 degr.	0,50 kg/pc
 RW ZRBOWP 72100	d=100 mm, t=0,60 mm, 72 degr.	0,50 kg/pc



Subject




NSR RAINWATER SYSTEM PARTS

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	




⑫ FUNNEL






MATERIALS:

-  NORDIC STANDARD
-  NORDIC BROWN
-  NORDIC GREEN

1. OUTLET (downpipe, round 87 mm)

CODE	DIMENSIONS		WEIGHTkg/unit	
 RW ZRKEM 087	d=87 mm, t=0,60 mm		2,00 kg/pc	
 RW ZRKEMO 087	d=87 mm, t=0,60 mm		2,00 kg/pc	
 RW ZRKEMP 087	d=87 mm, t=0,60 mm		2,00 kg/pc	

2. OUTLET (downpipe, round 100 mm)

CODE	DIMENSIONS		WEIGHTkg/unit	
 RW ZRBKEM 100	d=100 mm, t=0,60 mm		2,10 kg/pc	
 RW ZRBKEMO 100	d=100 mm, t=0,60 mm		2,10 kg/pc	
 RW ZRBKEMP 100	d=100 mm, t=0,60 mm		2,10 kg/pc	



Subject




NSR RAINWATER SYSTEM PARTS

Date	Rev.	Project no.	Dwg-no. NSR_RWS
Drawn by	Rev.date		
Scale	Project	Filename NSR_RWS.dwg	




⑫ FUNNEL





MATERIALS:

-  NORDIC STANDARD
-  NORDIC BROWN
-  NORDIC GREEN

1. OUTLET (downpipe, round 87 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRKEL 087	d=87 mm, t=0,60 mm	1,20 kg/pc
 RW ZRKELO 087	d=87 mm, t=0,60 mm	1,20 kg/pc
 RW ZRKELP 087	d=87 mm, t=0,60 mm	1,20 kg/pc

2. OUTLET (downpipe, round 100 mm)

CODE	DIMENSIONS	WEIGHTkg/unit
 RW ZRKEL 100	d=100 mm, t=0,60 mm	1,30 kg/pc
 RW ZRKELO 100	d=100 mm, t=0,60 mm	1,30 kg/pc
 RW ZRKELP 100	d=100 mm, t=0,60 mm	1,30 kg/pc

Date	Rev.	Project no.	Dwg-no. NSR_RS1
Drawn by	Rev.date		
Scale 1:5	Project	Filename NSR_RS.dwg	

NORDIC ROOF BRIDGE

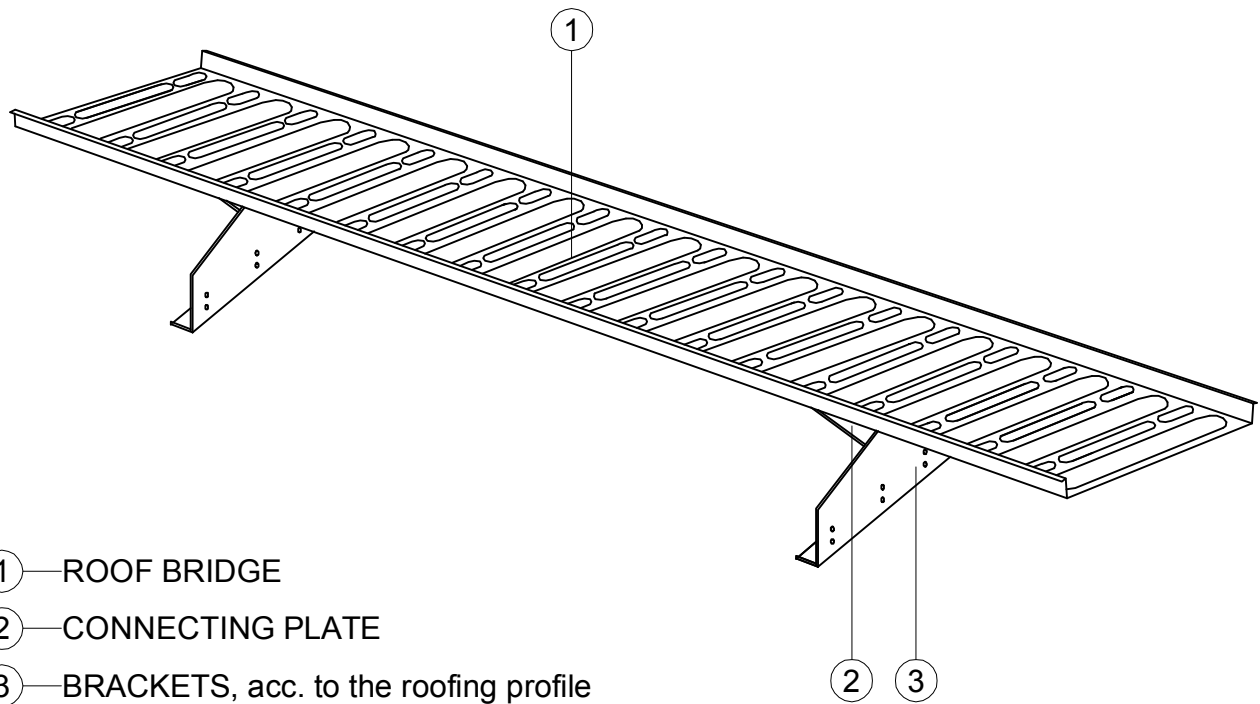
MATERIALS: NORDIC STANDARD, NORDIC BROWN, NORDIC GREEN

LENGTH: 2970 mm, 1980 mm or 1210 mm

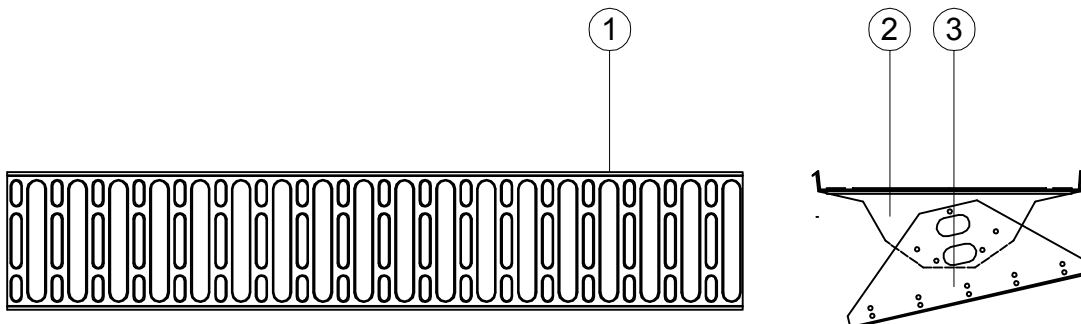
WIDTH: 350 mm

ADJUSTABLE BRACKETS (ACC. TO ROOF SLOPE)

BRACKET SPACING: 1200 mm (max.)



- ① — ROOF BRIDGE
- ② — CONNECTING PLATE
- ③ — BRACKETS, acc. to the roofing profile



LUVATA

Subject

NSR ROOF SAFETY SNOW GUARD

Date	Rev.	Project no.	Dwg-no. NSR_RS2
Drawn by	Rev.date		
Scale 1:5	Project	Filename NSR_RS.dwg	

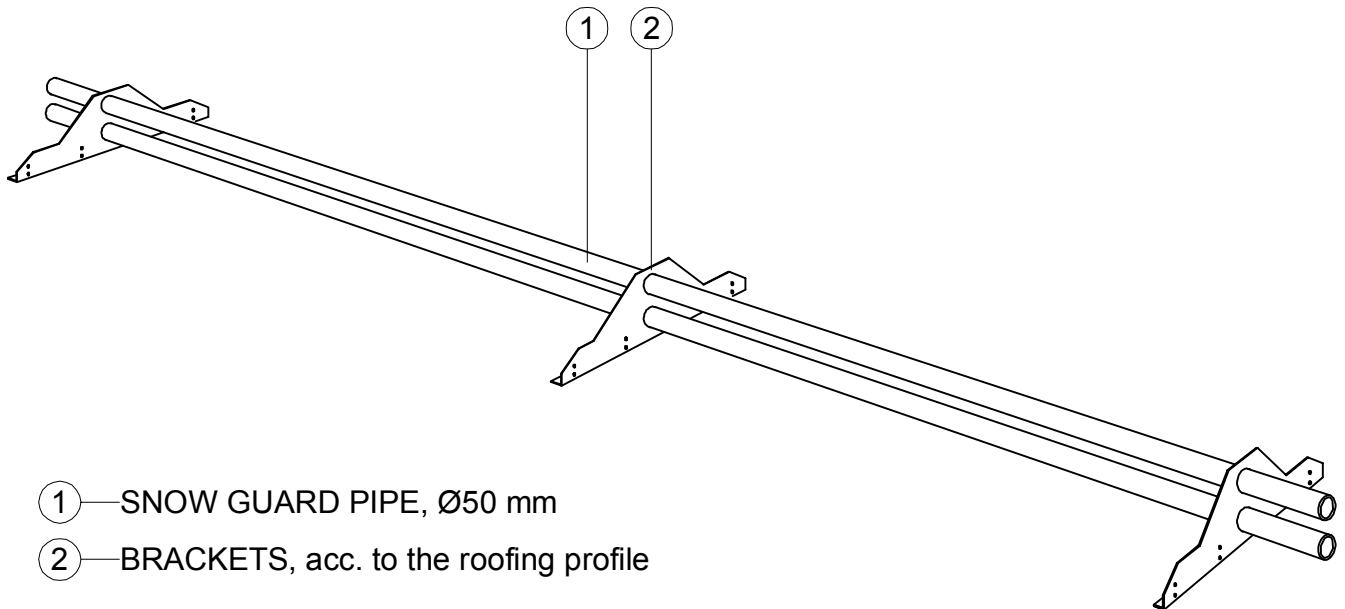
NORDIC SNOW GUARD

MATERIALS: NORDIC STANDARD, NORDIC BROWN, NORDIC GREEN

LENGHT: 2750 mm

PIPES: Ø50 mm, 2 pcs

BRACKET SPACING: 1200 mm (max.)



LUVATA

Subject

NSR ROOF SAFETY ROOF LADDER

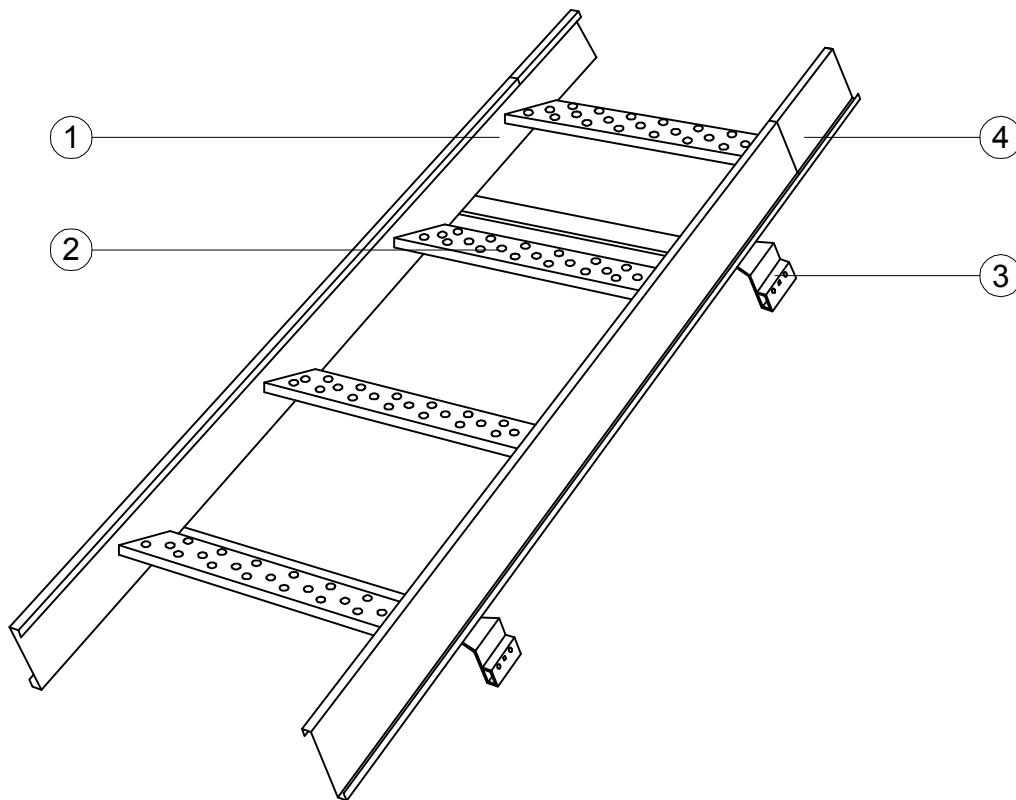
Date	Rev.	Project no.	Dwg-no. NSR_RS3
Drawn by	Rev.date		
Scale 1:5	Project	Filename NSR_RS.dwg	

NORDIC ROOF LADDER

MATERIALS: NORDIC STANDARD, NORDIC BROWN, NORDIC GREEN

LENGHT: 1800 mm

BRACKETS: 4 pcs



- ①—ROOF LADDER FRAME, l=1800 mm
- ②—STEPS, perforated
- ③—BRACKETS, 4 pcs
- ④—CONNECTING PLATES