



CATALOGUE

GUTTER SYSTEMS KJG





POWERFUL PARTNER FOR YOUR ROOF



Half-round gutter system KJG

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Square gutter system KJG

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Assembly instructions square gutter system

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PREMIUM HALF-ROUND GUTTER SYSTEM



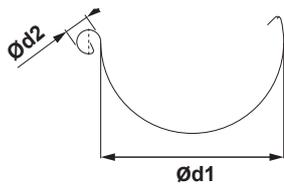
A **half-round gutter system** is a type of a drainage system used to collect and drain rainwater from roofs. This system consists of half-round roof gutters that are located below the edge of the roof, and of gutter downpipes that carry water from the gutters to the drains.

The half-round shape of the gutters enables efficient water drainage and reduces the risk of clogging. It is popular for its simplicity, reliability, and aesthetic appearance, which fits most architectural styles. We manufacture this gutter system of various materials and it is available in different sizes and colours allowing customization to different needs and preferences.

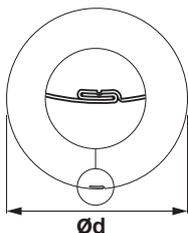




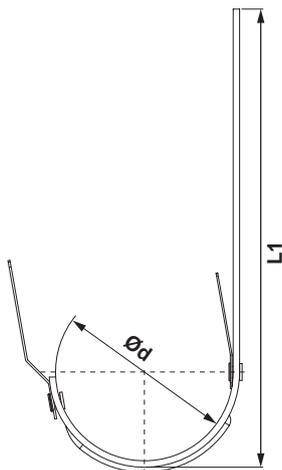
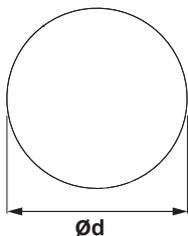
Shown color:
Moss green W.15 – RAL 6005



INNER FALZ



WELDED TIG



ROOF GUTTER DIMENSIONS

(dimensions and dimensional tolerances according to EN 612)

Developed width (mm)	200	250	280	333	400	500
Ød1	80	105	127	153	192	250
Ød2	16	18	18	20	22	22

ROOF DOWNPIPE DIMENSIONS

(dimensions and dimensional tolerances according to EN 612)

Dimensions	60	80	100	120	150
Nominal dimension Ød (mm)	60	80	100	120	150

ROOF DOWNPIPE DIMENSIONS

(dimensions and dimensional tolerances according to EN 612)

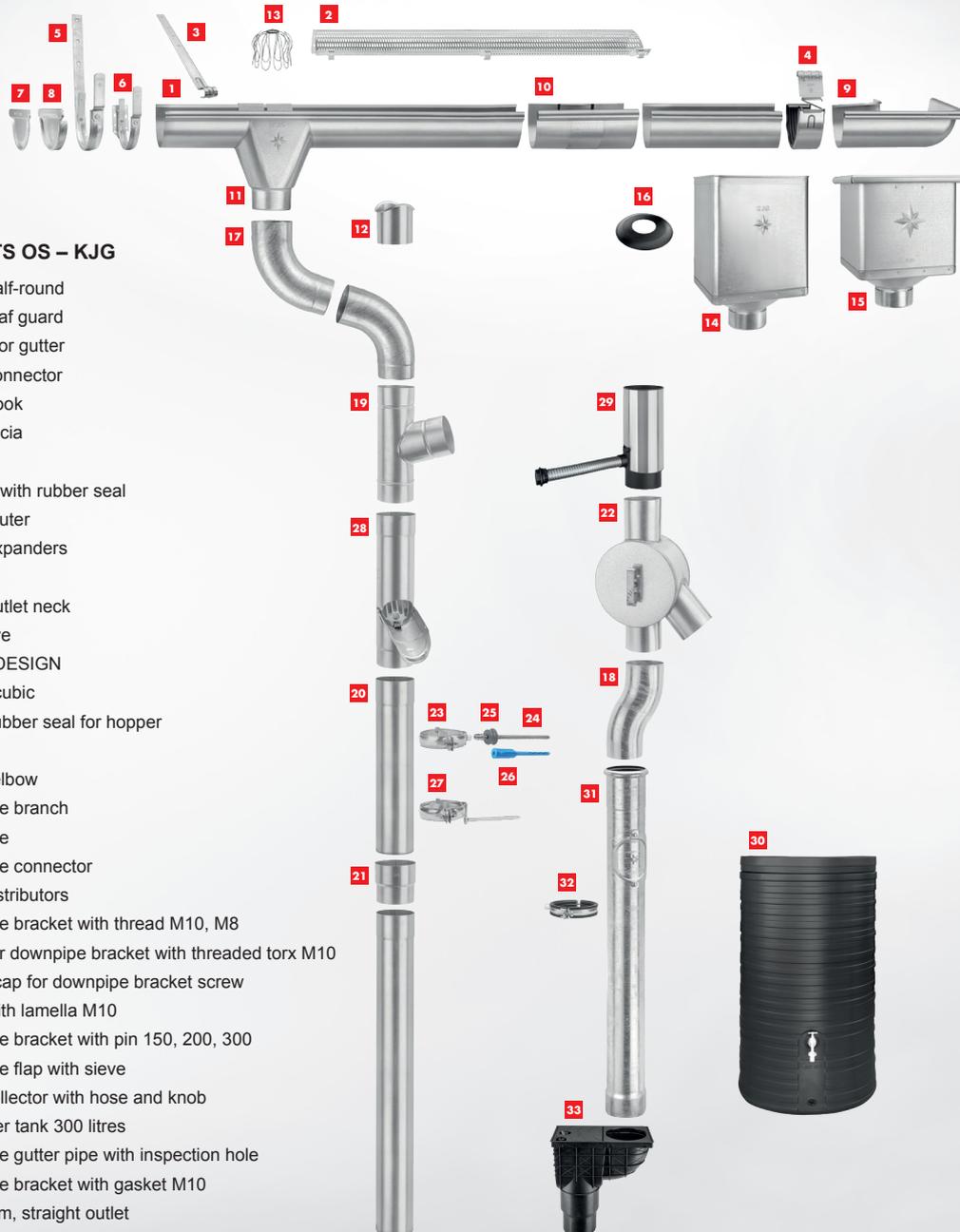
Dimensions	60	80	100	120
Nominal dimension Ød (mm)	60	80	100	120

ROOF BRACKET DIMENSIONS

(dimensions and dimensional tolerances according to EN 612)

Dimensions (mm)	L1	Ød
200	290	80
250	310	105
280	345	127
333 – 510	345	153
333 – 550	385	153
333 – 610	445	153
400	400	192

HALF-ROUND GUTTER SYSTEM GALVANIZED STEEL – NATUR



PRODUCTS OS – KJG

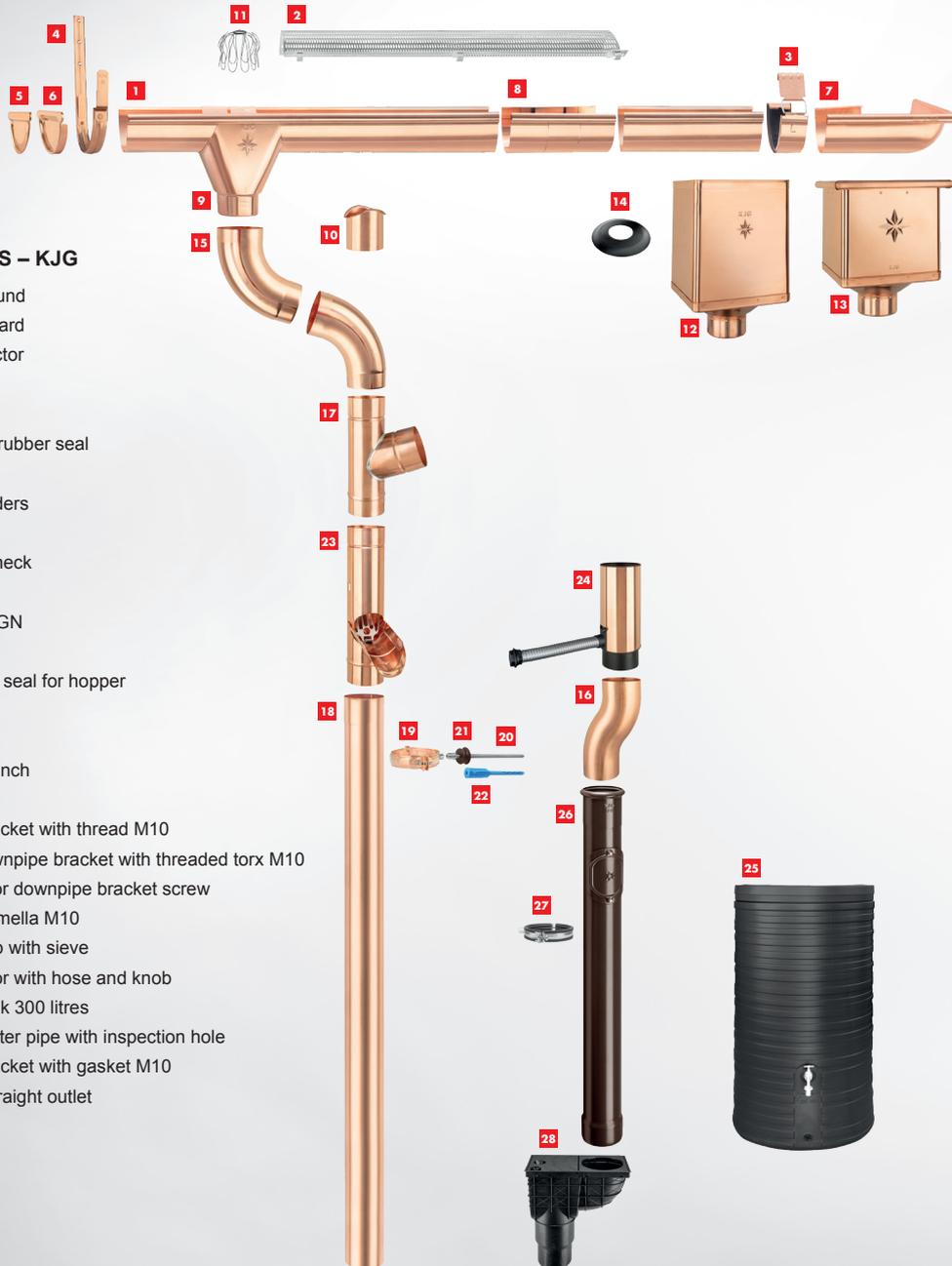
- 1** Gutter half-round
- 2** Gutter leaf guard
- 3** Hanger for gutter
- 4** Gutter connector
- 5** Gutter hook
- 6** Hook fascia
- 7** End cap
- 8** End cap with rubber seal
- 9** Corner outer
- 10** Gutter expanders
- 11** Outlet
- 12** Gutter outlet neck
- 13** Leaf sieve
- 14** Hopper DESIGN
- 15** Hopper cubic
- 16** EPDM rubber seal for hopper
- 17** Elbow
- 18** Double elbow
- 19** Downpipe branch
- 20** Downpipe
- 21** Downpipe connector
- 22** Water distributors
- 23** Downpipe bracket with thread M10, M8
- 24** Screw for downpipe bracket with threaded torx M10
- 25** Rubber cap for downpipe bracket screw
- 26** Dowel with lamella M10
- 27** Downpipe bracket with pin 150, 200, 300
- 28** Downpipe flap with sieve
- 29** Water collector with hose and knob
- 30** Rainwater tank 300 litres
- 31** Protective gutter pipe with inspection hole
- 32** Downpipe bracket with gasket M10
- 33** Rain drum, straight outlet

MATERIAL NATUR

P Galvanized steel

Shown material:
Galvanized steel – Natur

HALF-ROUND GUTTER SYSTEM COPPER – NATUR



PRODUCTS OS – KJG

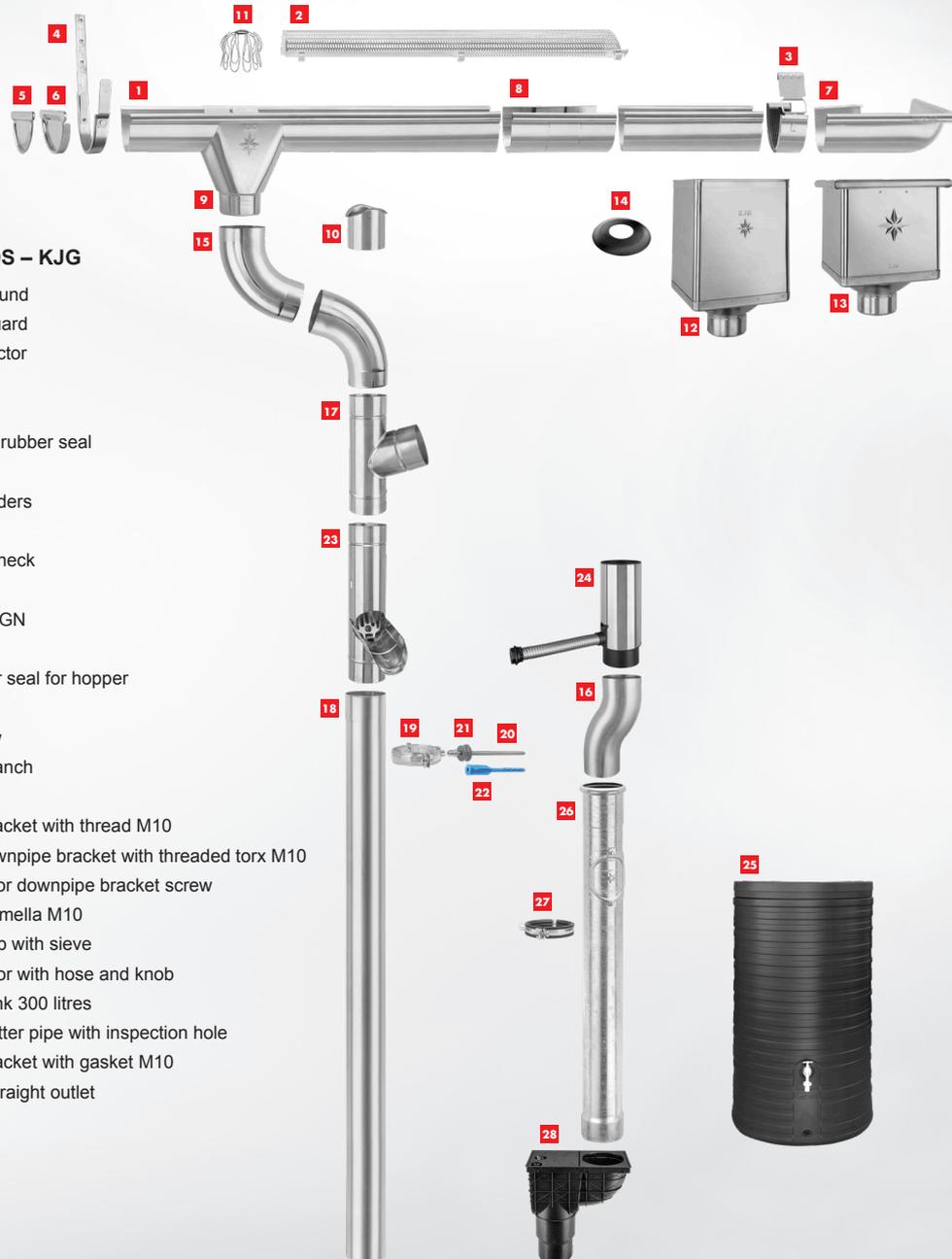
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- 24** Water collector with hose and knob
- 25** Rainwater tank 300 litres
- 26** Protective gutter pipe with inspection hole
- 27** Downpipe bracket with gasket M10
- 28** Rain drum, straight outlet

MATERIAL NATUR

M	Copper
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Shown material:
Copper – Natur

HALF-ROUND GUTTER SYSTEM TITANIUM ZINC – NATUR



PRODUCTS OS – KJG

- 1** Gutter half-round
- 2** Gutter leaf guard
- 3** Gutter connector
- 4** Gutter hook
- 5** End cap
- 6** End cap with rubber seal
- 7** Corner outer
- 8** Gutter expanders
- 9** Outlet
- 10** Gutter outlet neck
- 11** Leaf sieve
- 12** Hopper DESIGN
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- 23** Downpipe flap with sieve
- 24** Water collector with hose and knob
- 25** Rainwater tank 300 litres
- 26** Protective gutter pipe with inspection hole
- 27** Downpipe bracket with gasket M10
- 28** Rain drum, straight outlet

MATERIAL NATUR

TZ Titanium zinc

Shown material:
Titanium zinc – Natur

HALF-ROUND GUTTER SYSTEM STAINLESS STEEL – NATUR



PRODUCTS OS – KJG

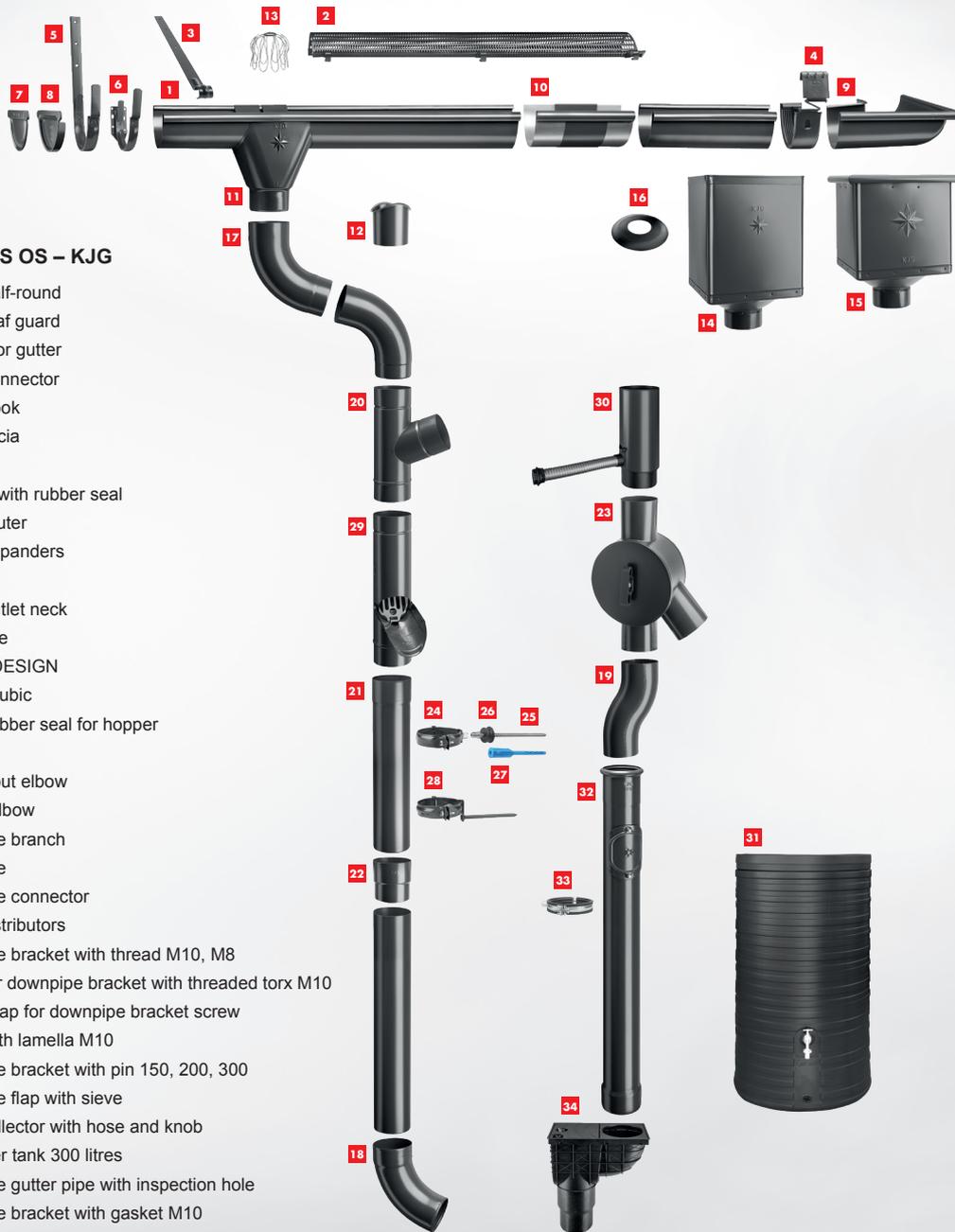
- 1** Gutter half-round
- 2** Gutter leaf guard
- 3** Gutter hook
- 4** End cap
- 5** Corner outer
- 6** Gutter expanders
- 7** Outlet
- 8** Leaf sieve
- 9** Elbow
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- 18** Rainwater tank 300 litres
- 19** Protective gutter pipe with inspection hole
- 20** Downpipe bracket with gasket M10
- 21** Rain drum, straight outlet

MATERIAL NATUR

304 2B Stainless steel - AISI 304 2B – MATT

Shown material:
Stainless steel - AISI 304 2B – MATT

HALF-ROUND GUTTER SYSTEM GALVANIZED STEEL PREPAINTED – POLYESTER



PRODUCTS OS – KJG

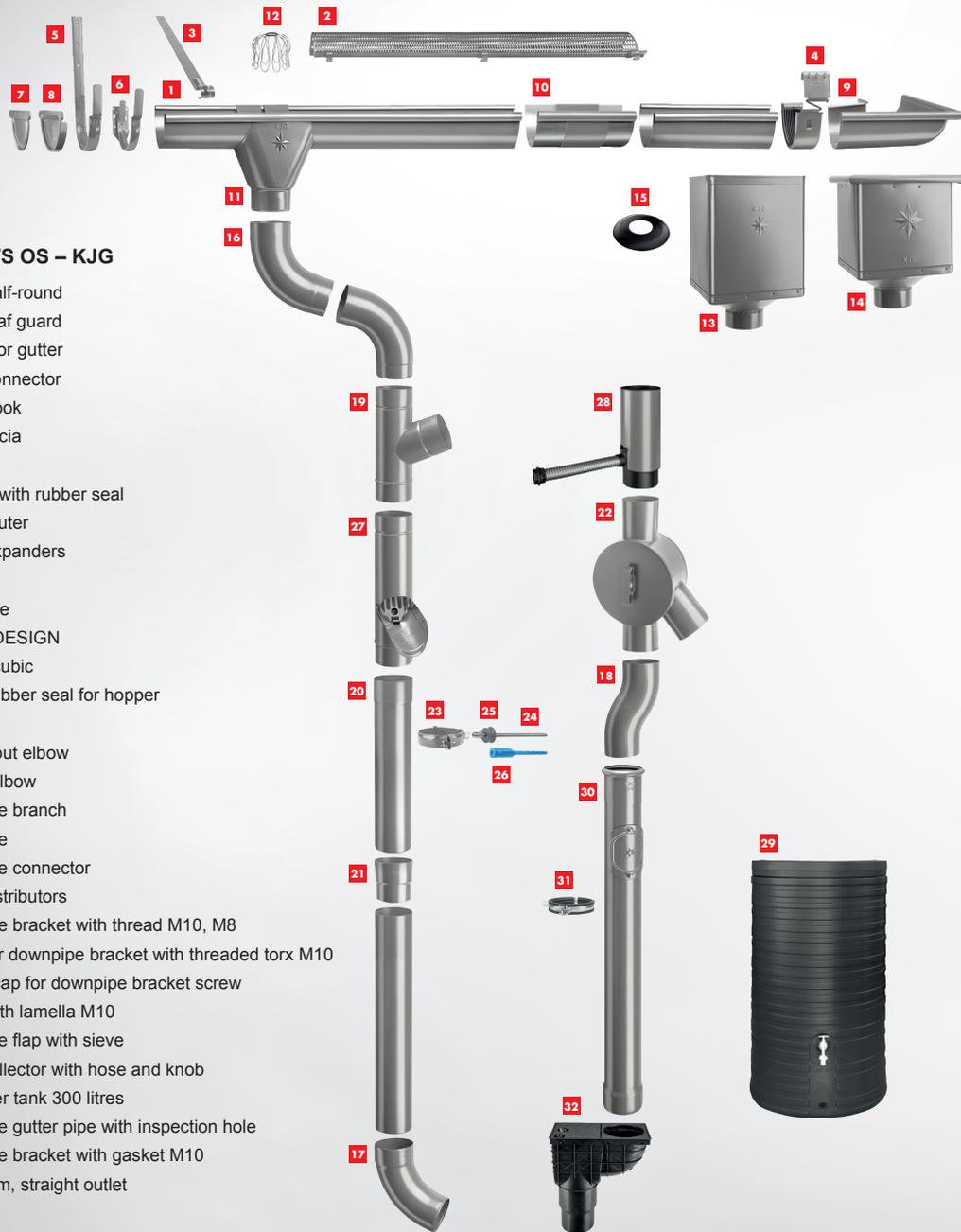
- 1 Gutter half-round
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- 7 End cap
- 8 End cap with rubber seal
- 9 Corner outer
- 10 Gutter expanders
- 11 Outlet
- 12 Gutter outlet neck
- 13 Leaf sieve
- 14 Hopper DESIGN
- 15 Hopper cubic
- 16 EPDM rubber seal for hopper
- 17 Elbow
- 18 Downspout elbow
- 19 Double elbow
- 20 Downpipe branch
- 21 Downpipe
- 22 Downpipe connector
- 23 Water distributors
- 24 Downpipe bracket with thread M10, M8
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- 28 Downpipe bracket with pin 150, 200, 300
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- 31 Rainwater tank 300 litres
- 32 Protective gutter pipe with inspection hole
- 33 Downpipe bracket with gasket M10
- 34 Rain drum, straight outlet

GALVANIZED STEEL PREPAINTED COLOUR SHADES

TM	Testa di Moro RAL 8028	01
AN	Anthracite RAL 7016	02
IC	Intense black RAL 9005	03
OC	Steel red RAL 3009	04
MH	Copper brown RAL 8004	05
SB	Grey white RAL 9002	06
BH	White aluminium RAL 9006	07
PS	Dusty grey RAL 7037	08
MM	Metallic copper RAL extra	09
MZ	Moss green RAL 6005	11
MOT	Gentian blue RAL 5010	12
TZ	Reseda green RAL 6011	13
TH	Dark brown ČOKO RAL 8017	14

Shown color:
Anthracite – RAL 7016

HALF-ROUND GUTTER SYSTEM GALVANIZED STEEL PREPAINTED – P.20 PREMIUM



PRODUCTS OS – KJG

- 1** Gutter half-round
- 2** Gutter leaf guard
- 3** Hanger for gutter
- 4** Gutter connector
- 5** Gutter hook
- 6** Hook fascia
- 7** End cap
- 8** End cap with rubber seal
- 9** Corner outer
- 10** Gutter expanders
- 11** Outlet
- 12** Leaf sieve
- 13** Hopper DESIGN
- 14** Hopper cubic
- 15** EPDM rubber seal for hopper
- 16** Elbow
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- 18** Double elbow
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- 23** Downpipe bracket with thread M10, M8
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- 27** Downpipe flap with sieve
- 28** Water collector with hose and knob
- 29** Rainwater tank 300 litres
- 30** Protective gutter pipe with inspection hole
- 31** Downpipe bracket with gasket M10
- 32** Rain drum, straight outlet

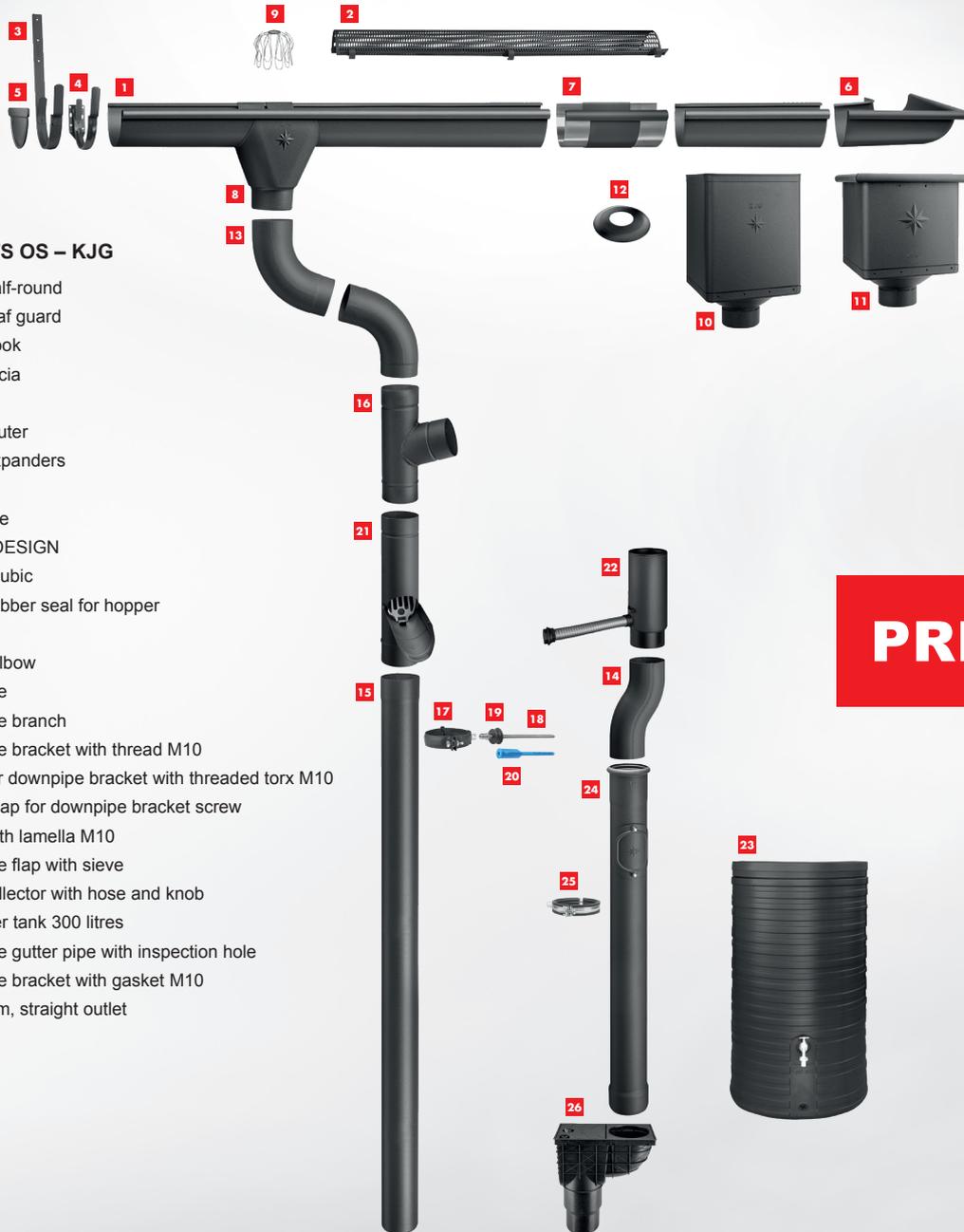
GALVANIZED STEEL PREPAINTED – P.20
COLOR SHADE

BHT	Grey aluminium – P.20 RAL 9007	10
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Shown color:
Grey aluminium – P.20 – RAL 9007

HALF-ROUND GUTTER SYSTEM

GALVANIZED STEEL PREPAINTED – P.25 3D EFFECT



PRODUCTS OS – KJG

- 1** Gutter half-round
- 2** Gutter leaf guard
- 3** Gutter hook
- 4** Hook fascia
- 5** End cap
- 6** Corner outer
- 7** Gutter expanders
- 8** Outlet
- 9** Leaf sieve
- 10** Hopper DESIGN
- 11** Hopper cubic
- 12** EPDM rubber seal for hopper
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- 17** Downpipe bracket with thread M10
- 18** Screw for downpipe bracket with threaded torx M10
- 19** Rubber cap for downpipe bracket screw
- 20** Dowel with lamella M10
- 21** Downpipe flap with sieve
- 22** Water collector with hose and knob
- 23** Rainwater tank 300 litres
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- 25** Downpipe bracket with gasket M10
- 26** Rain drum, straight outlet

GALVANIZED STEEL PREPAINTED – P.25
COLOR SHADE

ANM	Anthracite – P.25 RAL 7016	18
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PREPARING

Shown color:
Anthracite – P.25 – RAL 7016



OS 8

HALF-ROUND GUTTER SYSTEM ALUMINIUM PREPAINTED – POLYESTER



PRODUCTS OS – W

- 1 Gutter half-round
- 2 Gutter leaf guard
- 3 Gutter hook
- 4 Hook fascia
- 5 End cap
- 6 Corner outer
- 7 Gutter expanders
- 8 Outlet
- 9 Leaf sieve
- 10 Hopper DESIGN
- 11 Hopper cubic
- 12 EPDM rubber seal for hopper
- 13 Elbow
- 14 Double elbow
- 15 Downpipe
- 16 Downpipe branch
- 17 Downpipe bracket with thread M10
- 18 Screw for downpipe bracket with threaded torx M10
- 19 Rubber cap for downpipe bracket screw
- 20 Dowel with lamella M10
- 21 Downpipe flap with sieve
- 22 Water collector with hose and knob
- 23 Rainwater tank 300 litres
- 24 Protective gutter pipe with inspection hole
- 25 Downpipe bracket with gasket M10
- 26 Rain drum, straight outlet

ALUMINIUM PREPAINTED COLOUR SHADES

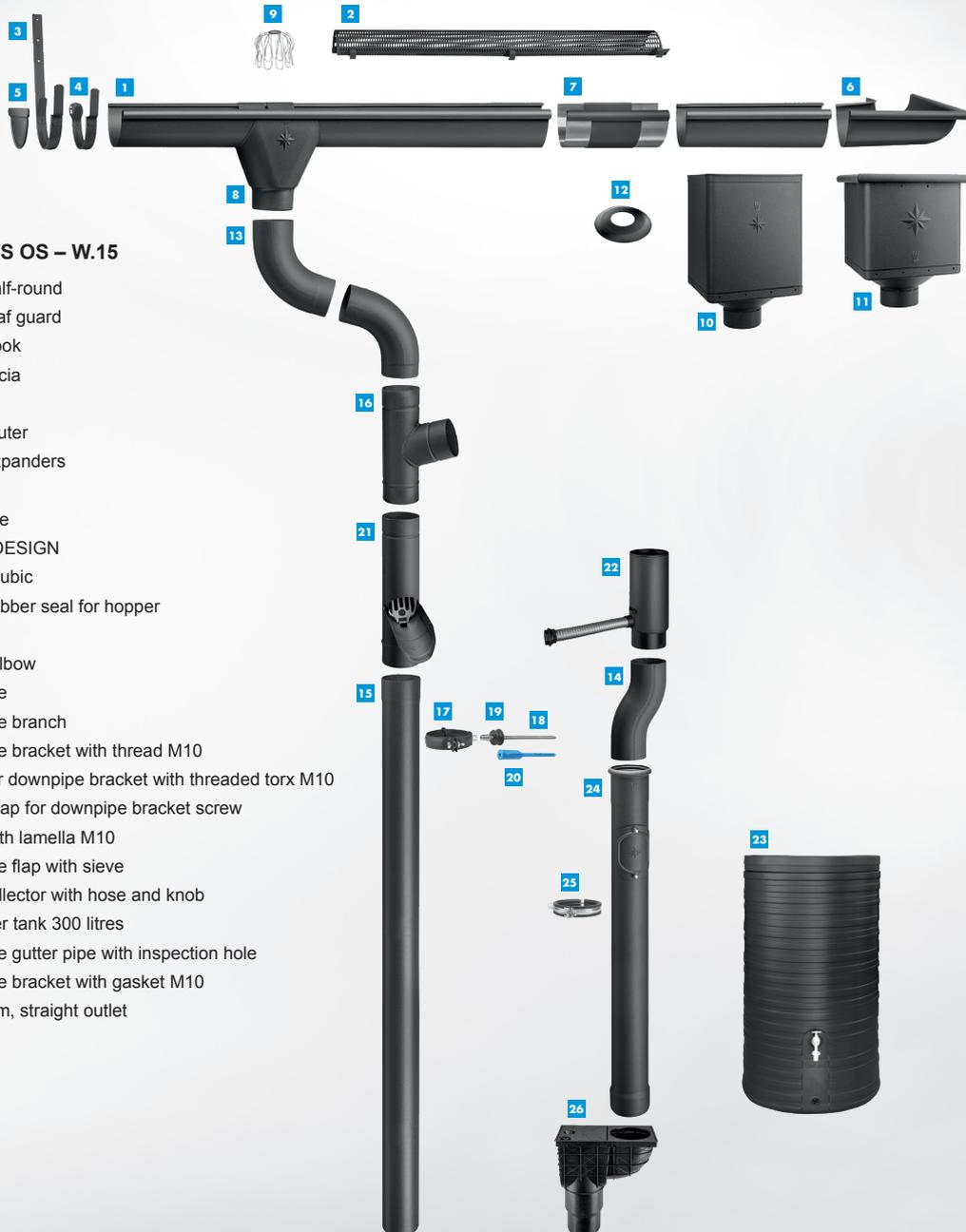
AN	Anthracite RAL 7016	01
TM	Testa di Moro RAL 8028	02
SS	Mouse grey RAL 7005	03
ZH	Brown grey RAL 7013	04
BH	White aluminium RAL 9006	05
BHT	Grey aluminium RAL 9007	06
MH	Copper brown RAL 8004	07
IC	Intense black RAL 9005	08
OC	Steel red RAL 3009	09
B	Pure white RAL 9010	10
MZ	Moss green RAL 6005	11
ZS	Zinc grey RAL extra	12
PZ	Patina green RAL extra	13
PM	Patina copper RAL extra	14
W	Aluminium – natur	15

Shown color:
Anthracite – RAL 7016



HALF-ROUND GUTTER SYSTEM

ALUMINIUM PREPAINTED W.15 – 3D EFFECT



PRODUCTS OS – W.15

- 1 Gutter half-round
- 2 Gutter leaf guard
- 3 Gutter hook
- 4 Hook fascia
- 5 End cap
- 6 Corner outer
- 7 Gutter expanders
- 8 Outlet
- 9 Leaf sieve
- 10 Hopper DESIGN
- 11 Hopper cubic
- 12 EPDM rubber seal for hopper
- 13 Elbow
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- 19 Rubber cap for downpipe bracket screw
- 20 Dowel with lamella M10
- 21 Downpipe flap with sieve
- 22 Water collector with hose and knob
- 23 Rainwater tank 300 litres
- 24 Protective gutter pipe with inspection hole
- 25 Downpipe bracket with gasket M10
- 26 Rain drum, straight outlet

ALUMINIUM W.15 MATT 3D EFFECT

ANM	Anthracite RAL 7016	01
TMM	Testa di Moro RAL 8028	02
SSM	Mouse grey RAL 7005	03
ICM	Intense black RAL 9005	04
OCM	Steel red RAL 3009	05
ZHM	Brown grey RAL 7013	06
BHM	White aluminium RAL 9006	07
BM	Pure white RAL 9010	08
ZSM	Zinc grey RAL extra	09
MHM	Copper brown RAL 8004	10
MZM	Moss green RAL 6005	11
BHTM	Grey aluminium RAL 9007	12

Shown color:
Anthracite W.15 – RAL 7016



PREMIUM SQUARE GUTTER SYSTEM



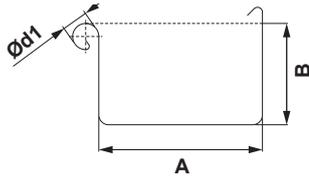
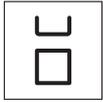
A **square gutter system** is a drainage system with square roof gutters that are located under the edge of the roof. This type of system offers a modern and elegant appearance, which is especially suitable for contemporary and minimalist architectural styles.

The square shape of the gutters allows for better use of the volume to drain water, which increases their capacity compared to semicircular gutter system. The system consists of square roof gutters, downpipes and other components such as drain pots brackets. We manufacture the square gutter system in various materials, it is available in various colours and sizes to match the facade and roofing.

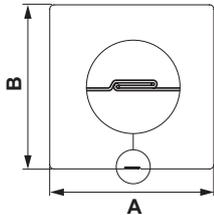




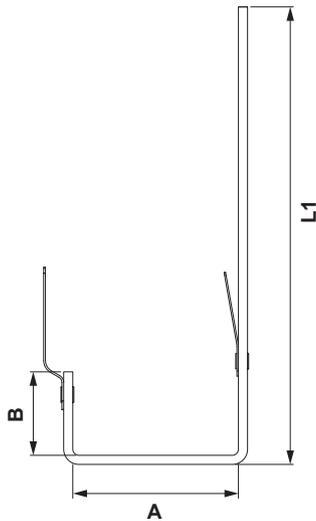
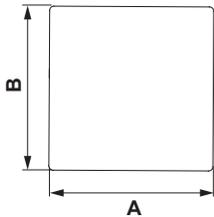
Shown color:
Anthracite – RAL 7016



INNER FALZ



WELDED TIG



ROOF GUTTER DIMENSIONS

(dimensions and dimensional tolerances according to EN 612)

Developed width (mm)	200	250	333	400	500
A	70	85	120	150	200
B	42	55	75	90	110
Ød1	16	18	20	22	22

ROOF DOWNPIPE DIMENSIONS

(dimensions and dimensional tolerances according to EN 612)

Dimensions	80 x 80	100 x 100	120 x 120	150 x 150
Nominal dimension (mm)	80	100	120	150

ROOF DOWNPIPE DIMENSIONS

(dimensions and dimensional tolerances according to EN 612)

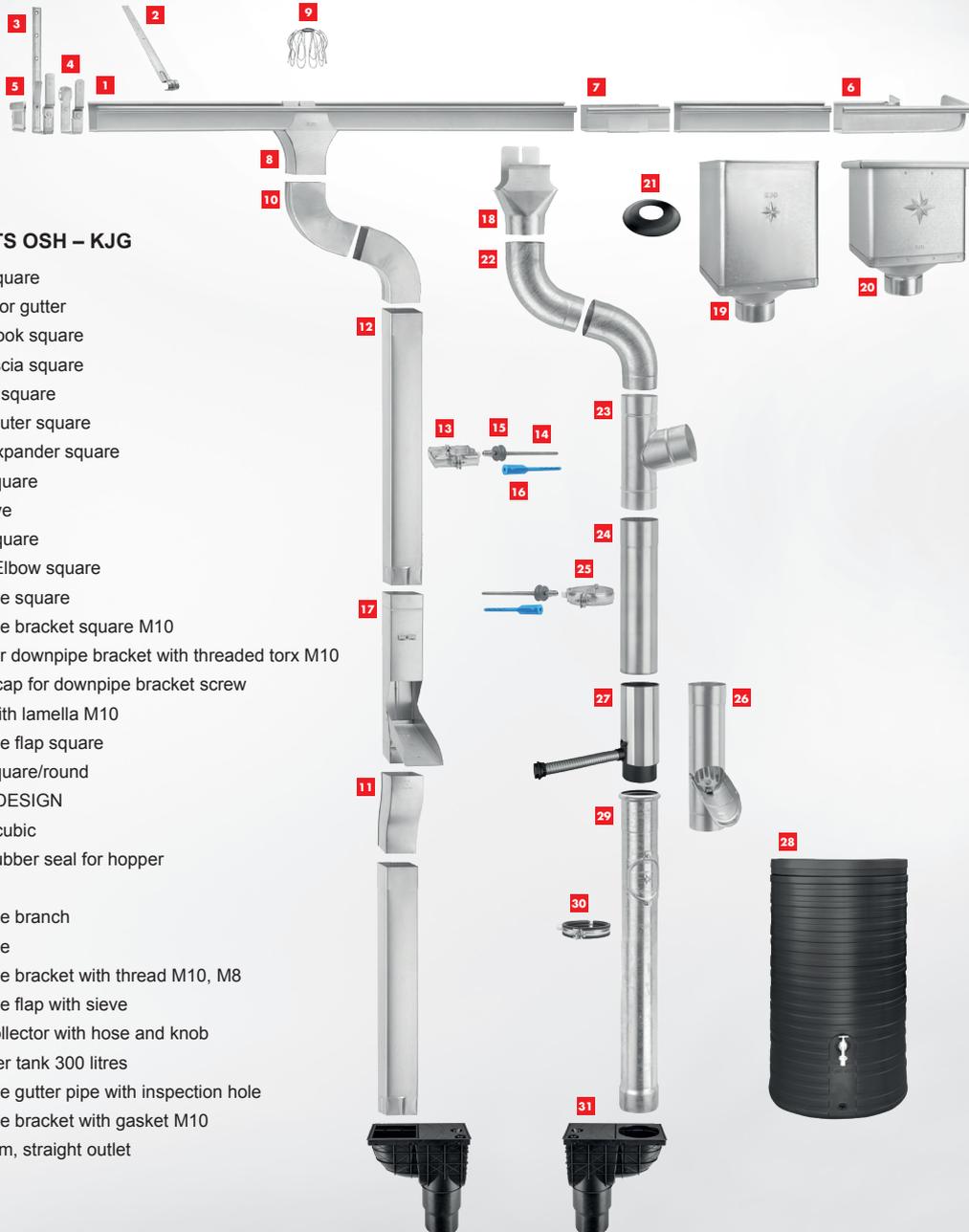
Dimensions	80 x 80	100 x 100
Nominal dimension (mm)	80	100

ROOF BRACKET DIMENSIONS

(dimensions and dimensional tolerances according to EN 612)

Dimensions (mm)	L1	A	B
200	275	72	28
250	302	87	38
333	351	123	55
400	384	153	68
500	355	202	88

SQUARE GUTTER SYSTEM GALVANIZED STEEL – NATUR



PRODUCTS OSH – KJG

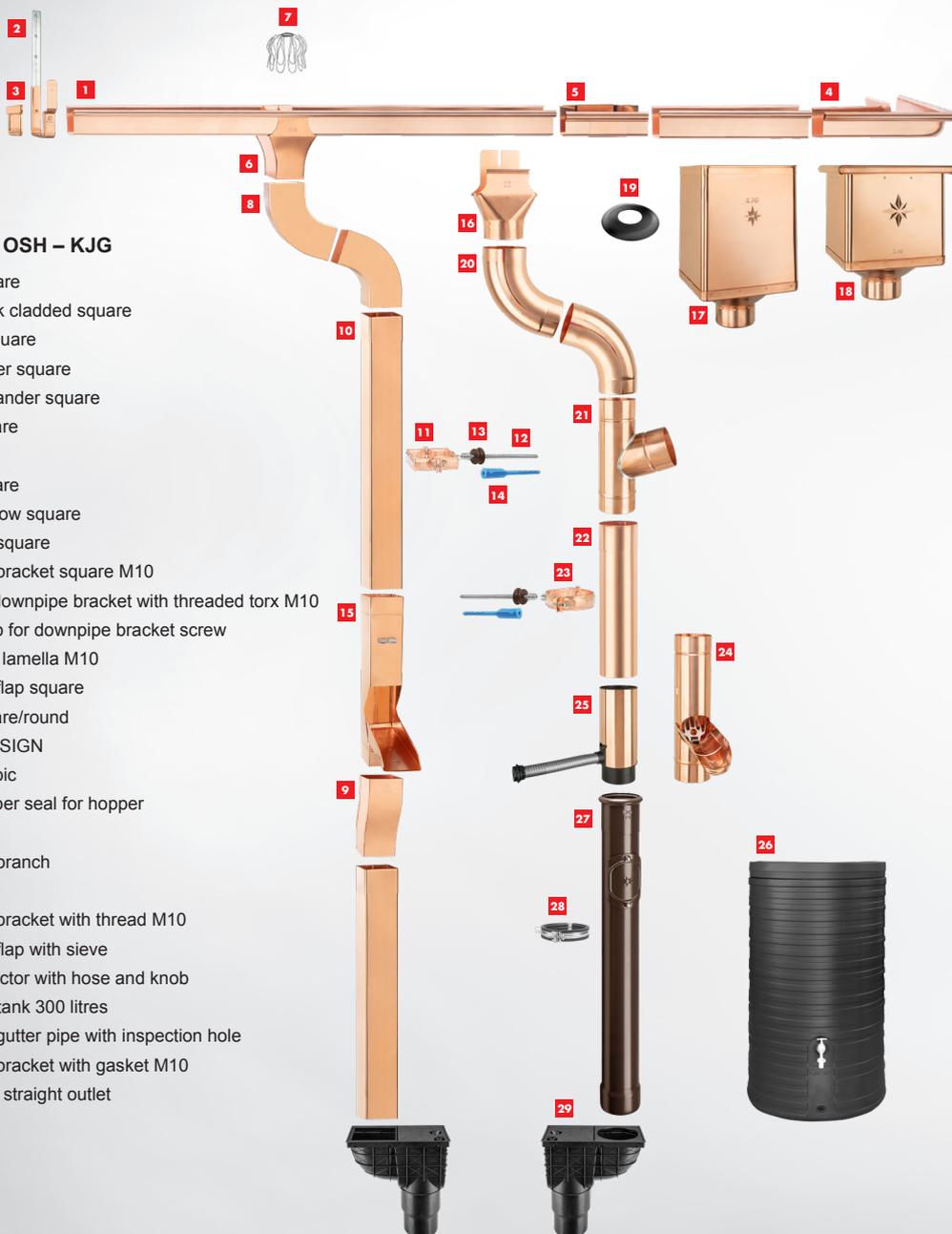
- 1** Gutter square
- 2** Hanger for gutter
- 3** Gutter hook square
- 4** Hook fascia square
- 5** End cap square
- 6** Corner outer square
- 7** Gutter expander square
- 8** Outlet square
- 9** Leaf sieve
- 10** Elbow square
- 11** Double Elbow square
- 12** Downpipe square
- 13** Downpipe bracket square M10
- 14** Screw for downpipe bracket with threaded torx M10
- 15** Rubber cap for downpipe bracket screw
- 16** Dowel with lamella M10
- 17** Downpipe flap square
- 18** Outlet square/round
- 19** Hopper DESIGN
- 20** Hopper cubic
- 21** EPDM rubber seal for hopper
- 22** Elbow
- 23** Downpipe branch
- 24** Downpipe
- 25** Downpipe bracket with thread M10, M8
- 26** Downpipe flap with sieve
- 27** Water collector with hose and knob
- 28** Rainwater tank 300 litres
- 29** Protective gutter pipe with inspection hole
- 30** Downpipe bracket with gasket M10
- 31** Rain drum, straight outlet

MATERIAL NATUR

P Galvanized steel

Shown material:
Galvanized steel – Natur

SQUARE GUTTER SYSTEM COPPER – NATUR



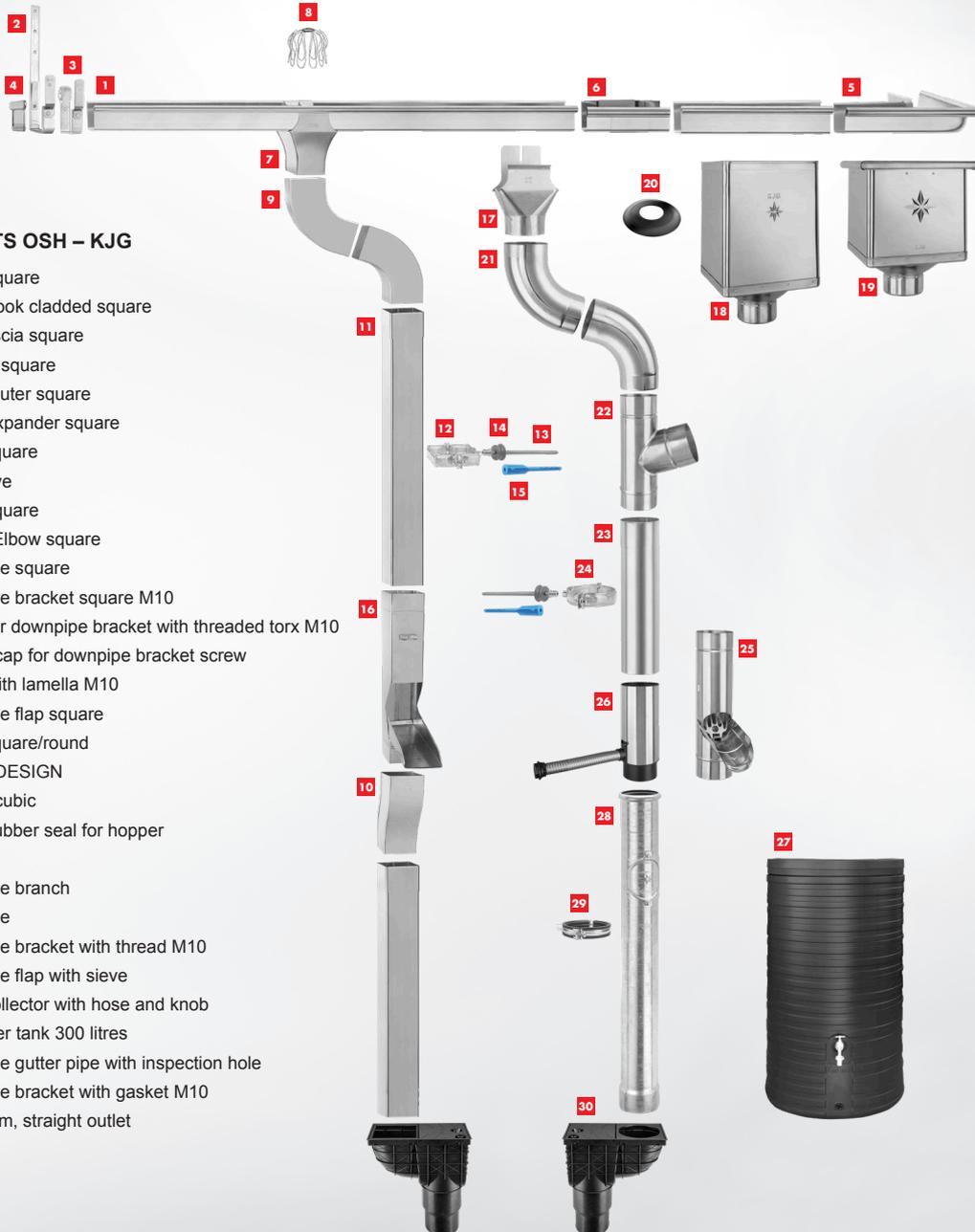
PRODUCTS OSH – KJG

- 1** Gutter square
- 2** Gutter hook cladded square
- 3** End cap square
- 4** Corner outer square
- 5** Gutter expander square
- 6** Outlet square
- 7** Leaf sieve
- 8** Elbow square
- 9** Double Elbow square
- 10** Downpipe square
- 11** Downpipe bracket square M10
- 12** Screw for downpipe bracket with threaded torx M10
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MATERIAL NATUR

M	Copper
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Shown material:
Copper – Natur



PRODUCTS OSH – KJG

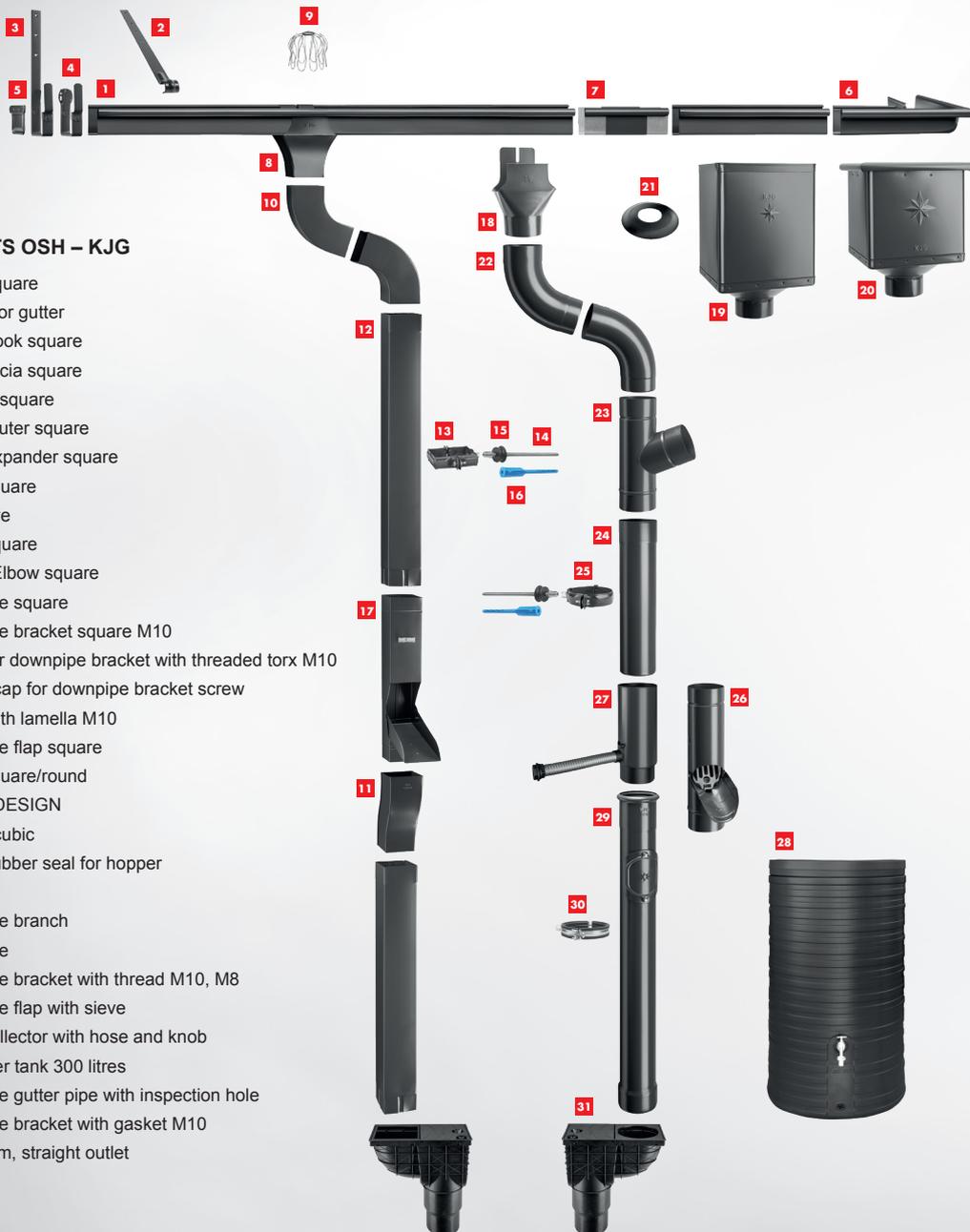
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- 30 Rain drum, straight outlet

MATERIAL NATUR

TZ Titanium zinc

Shown material:
Titanium zinc – Natur

SQUARE GUTTER SYSTEM GALVANIZED STEEL PREPAINTED – POLYESTER



PRODUCTS OSH – KJG

- 1 Gutter square
- 2 Hanger for gutter
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- 31 Rain drum, straight outlet

GALVANIZED STEEL PREPAINTED COLOUR SHADES

TM	Testa di Moro RAL 8028	01
AN	Anthracite RAL 7016	02
IC	Intense black RAL 9005	03
OC	Steel red RAL 3009	04
MH	Copper brown RAL 8004	05
SB	Grey white RAL 9002	06
BH	White aluminium RAL 9006	07
PS	Dusty grey RAL 7037	08
MM	Metallic copper RAL extra	09
MZ	Moss green RAL 6005	11
MOT	Gentian blue RAL 5010	12
TZ	Reseda green RAL 6011	13

Shown color:
Anthracite – RAL 7016

SQUARE GUTTER SYSTEM GALVANIZED STEEL PREPAINTED – P.20 PREMIUM



PRODUCTS OSH – KJG

- 1 Gutter square
- 2 Hanger for gutter
- 3 Gutter hook square
- 4 Hook fascia square
- 5 End cap square
- 6 Corner outer square
- 7 Gutter expander square
- 8 Leaf sieve
- 9 Outlet square/round
- 10 Hopper DESIGN
- 11 Hopper cubic
- 12 EPDM rubber seal for hopper
- 13 Elbow
- 14 Downpipe branch
- 15 Downpipe
- 16 Downpipe bracket with thread M10
- 17 Screw for downpipe bracket with threaded torx M10
- 18 Rubber cap for downpipe bracket screw
- 19 Dowel with lamella M10
- 20 Downpipe flap with sieve
- 21 Water collector with hose and knob
- 22 Rainwater tank 300 litres
- 23 Protective gutter pipe with inspection hole
- 24 Downpipe bracket with gasket M10
- 25 Rain drum, straight outlet

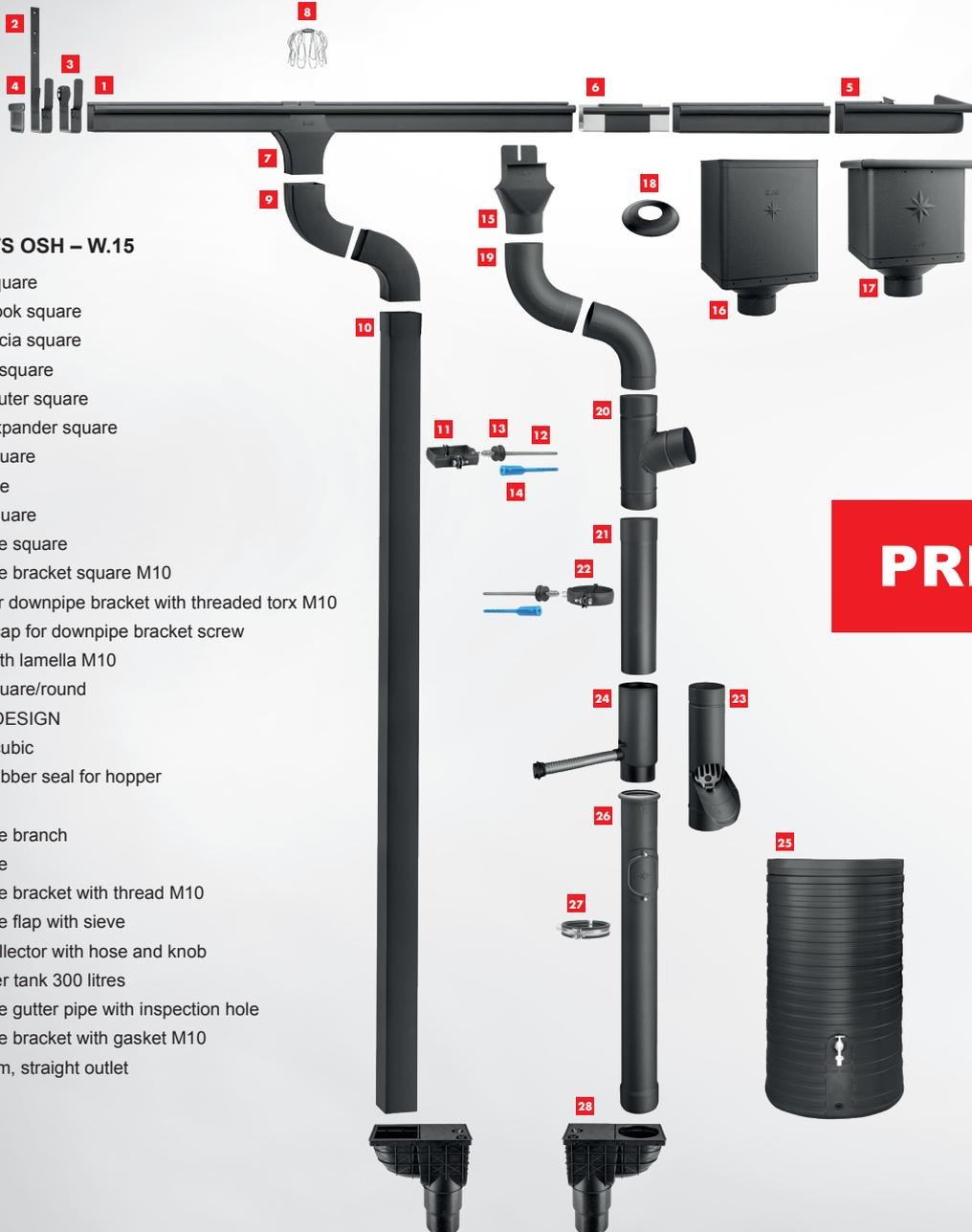
GALVANIZED STEEL PREPAINTED – P.20
COLOR SHADE

BHT	Grey aluminium – P.20 RAL 9007	10
-----	-----------------------------------	----

Shown color:
Grey aluminium – P.20 – RAL 9007

SQUARE GUTTER SYSTEM

GALVANIZED STEEL PREPAINTED – P.25 3D EFFECT



PRODUCTS OSH – W.15

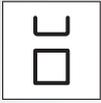
- 1 Gutter square
- 2 Gutter hook square
- 3 Hook fascia square
- 4 End cap square
- 5 Corner outer square
- 6 Gutter expander square
- 7 Outlet square
- 8 Leaf sieve
- 9 Elbow square
- 10 Downpipe square
- 11 Downpipe bracket square M10
- 12 Screw for downpipe bracket with threaded torx M10
- 13 Rubber cap for downpipe bracket screw
- 14 Dowel with lamella M10
- 15 Outlet square/round
- 16 Hopper DESIGN
- 17 Hopper cubic
- 18 EPDM rubber seal for hopper
- 19 Elbow
- 20 Downpipe branch
- 21 Downpipe
- 22 Downpipe bracket with thread M10
- 23 Downpipe flap with sieve
- 24 Water collector with hose and knob
- 25 Rainwater tank 300 litres
- 26 Protective gutter pipe with inspection hole
- 27 Downpipe bracket with gasket M10
- 28 Rain drum, straight outlet

GALVANIZED STEEL PREPAINTED – P.25
COLOR SHADE

ANM	Anthracite – P.25 RAL 7016	18
-----	-------------------------------	----

PREPARING

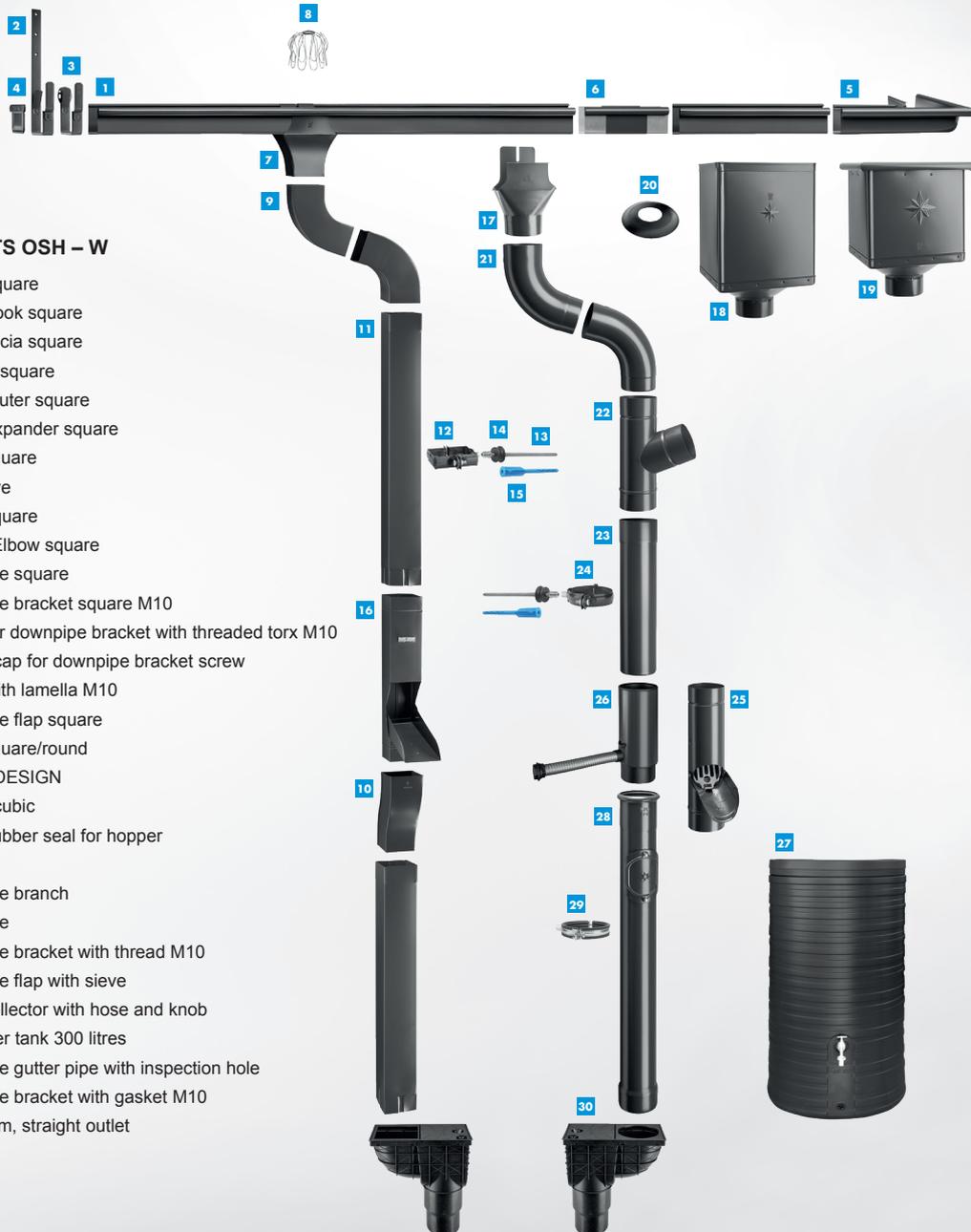
Shown color:
Anthracite – P.25 – RAL 7016



OSH 7

SQUARE GUTTER SYSTEM

ALUMINIUM PREPAINTED – POLYESTER



PRODUCTS OSH – W

- 1 Gutter square
- 2 Gutter hook square
- 3 Hook fascia square
- 4 End cap square
- 5 Corner outer square
- 6 Gutter expander square
- 7 Outlet square
- 8 Leaf sieve
- 9 Elbow square
- 10 Double Elbow square
- 11 Downpipe square
- 12 Downpipe bracket square M10
- 13 Screw for downpipe bracket with threaded torx M10
- 14 Rubber cap for downpipe bracket screw
- 15 Dowel with lamella M10
- 16 Downpipe flap square
- 17 Outlet square/round
- 18 Hopper DESIGN
- 19 Hopper cubic
- 20 EPDM rubber seal for hopper
- 21 Elbow
- 22 Downpipe branch
- 23 Downpipe
- 24 Downpipe bracket with thread M10
- 25 Downpipe flap with sieve
- 26 Water collector with hose and knob
- 27 Rainwater tank 300 litres
- 28 Protective gutter pipe with inspection hole
- 29 Downpipe bracket with gasket M10
- 30 Rain drum, straight outlet

ALUMINIUM PREPAINTED COLOUR SHADES

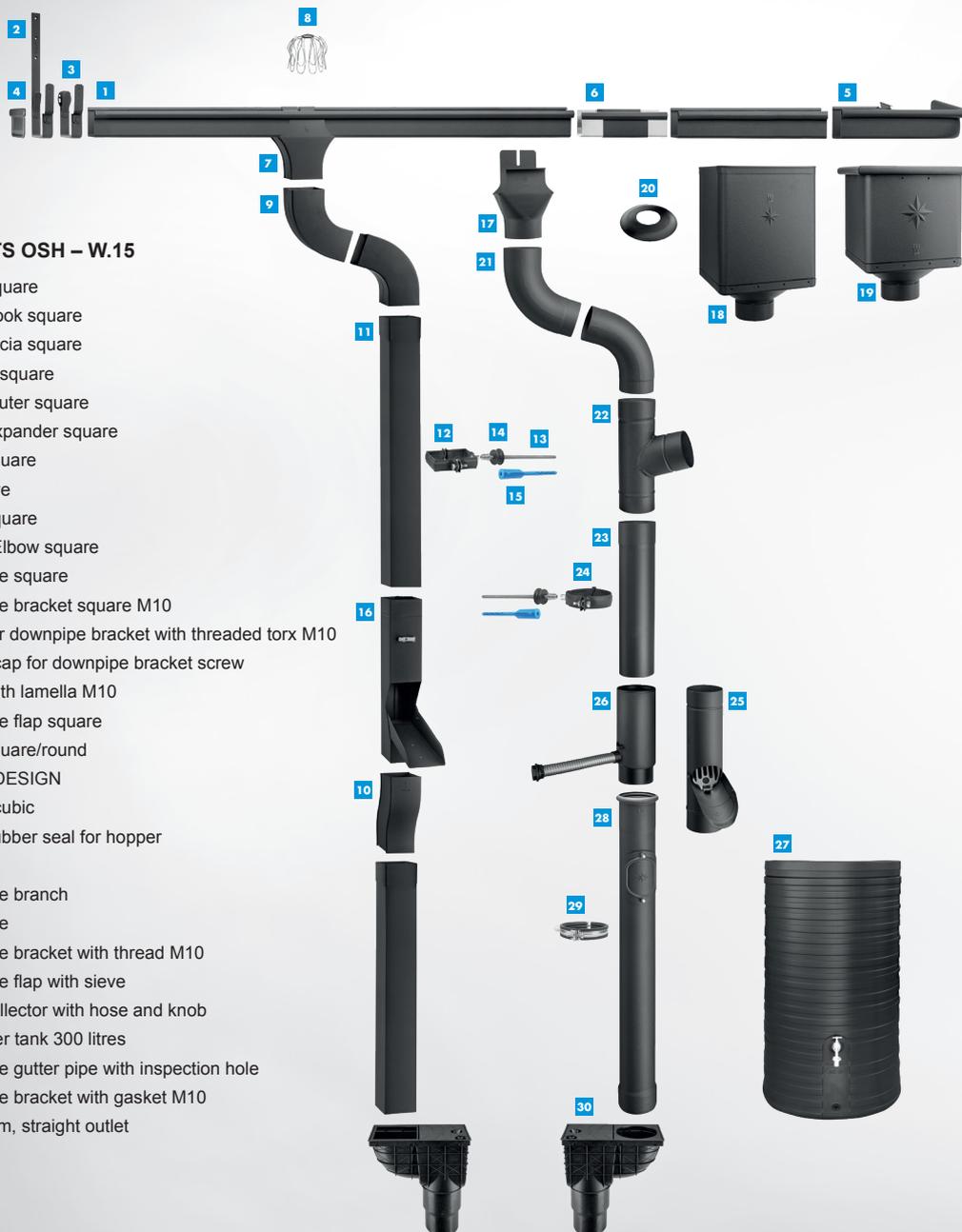
AN	Anthracite RAL 7016	01
TM	Testa di Moro RAL 8028	02
SS	Mouse grey RAL 7005	03
ZH	Brown grey RAL 7013	04
BH	White aluminium RAL 9006	05
BHT	Grey aluminium RAL 9007	06
MH	Copper brown RAL 8004	07
IC	Intense black RAL 9005	08
OC	Steel red RAL 3009	09
B	Pure white RAL 9010	10
MZ	Moss green RAL 6005	11
ZS	Zinc grey RAL extra	12
W	Aluminium – natur	15

Shown color:
Anthracite – RAL 7016



OSH 8

SQUARE GUTTER SYSTEM ALUMINIUM PREPAINTED W.15 – 3D EFFECT



PRODUCTS OSH – W.15

- 1 Gutter square
- 2 Gutter hook square
- 3 Hook fascia square
- 4 End cap square
- 5 Corner outer square
- 6 Gutter expander square
- 7 Outlet square
- 8 Leaf sieve
- 9 Elbow square
- 10 Double Elbow square
- 11 Downpipe square
- 12 Downpipe bracket square M10
- 13 Screw for downpipe bracket with threaded torx M10
- 14 Rubber cap for downpipe bracket screw
- 15 Dowel with lamella M10
- 16 Downpipe flap square
- 17 Outlet square/round
- 18 Hopper DESIGN
- 19 Hopper cubic
- 20 EPDM rubber seal for hopper
- 21 Elbow
- 22 Downpipe branch
- 23 Downpipe
- 24 Downpipe bracket with thread M10
- 25 Downpipe flap with sieve
- 26 Water collector with hose and knob
- 27 Rainwater tank 300 litres
- 28 Protective gutter pipe with inspection hole
- 29 Downpipe bracket with gasket M10
- 30 Rain drum, straight outlet

ALUMINIUM W.15 MATT 3D EFFECT

ANM	Anthracite RAL 7016	01
TMM	Testa di Moro RAL 8028	02
SSM	Mouse grey RAL 7005	03
ICM	Intense black RAL 9005	04
OCM	Steel red RAL 3009	05
ZHM	Brown grey RAL 7013	06
BHM	White aluminium RAL 9006	07
BM	Pure white RAL 9010	08
ZSM	Zinc grey RAL extra	09
MHM	Copper brown RAL 8004	10
MZM	Moss green RAL 6005	11
BHTM	Grey aluminium RAL 9007	12

Shown color:
Anthracite W.15 – RAL 7016





Stainless steel screw for downpipe bracket M6 x 20



Screw for downpipe bracket M8 x 30



Screw for downpipe bracket with threaded torx M10



Dowel M10



Dowel with lamella M10



Combiscrew torx M10



Insulation dowel M10



Insulating dowel tip of the brick without insulation



Insulating dowel tip of the brick with insulation



Stainless steel UNI platform to attach OB M10



Threaded rod M10



Downpipe bracket mounting plate M10



Rubber cap for downpipe bracket screw



Dowel for downpipe bracket square pim 7x7



Screw for Downpipe bracket with threaded M8



Dowel M8



Rain drum, straight outlet



Rain drum, side outlet



Univer. downpipe entry cov.



Plastic downpipe sleeve



Special sealant for tinsmiths



Drip edge



Coil perforated
80 mm / 5 mm / 30 m



Coil perforated
100 mm / 5 mm / 30 m



Grid gutter ridge



Tear-off rivet



Rainwater tank 300 litres



Chrome drain tap 3/4"
rainwater tank



Soldering tin



Paint correction spray 400 ml

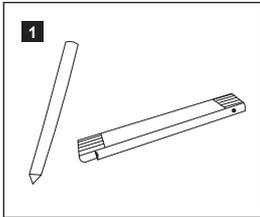


Paint correction galvanized steel
20 ml

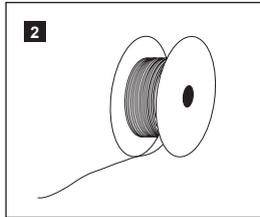


TOOLS

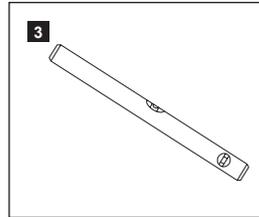
Choose the appropriate tools based on the purpose of the installation.



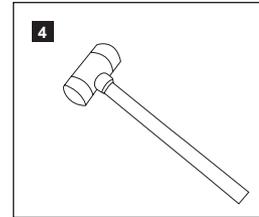
Tinsmith pencil and folding ruler



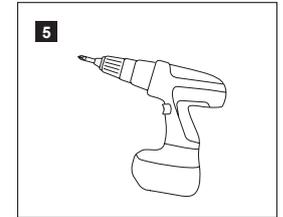
Tinsmith chalk line



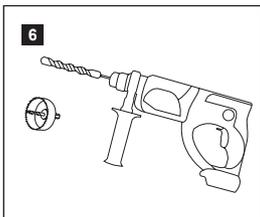
Spirit level



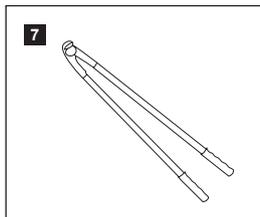
Rubber mallet



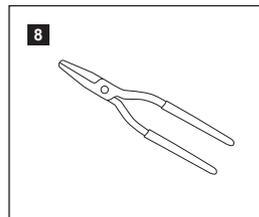
Cordless screwdriver



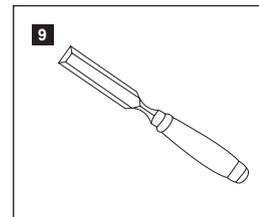
Drilling machine



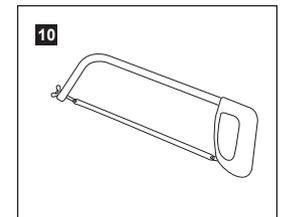
Pliers for bending roof gutter brackets



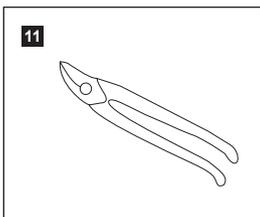
Flat nose pliers smooth jaw



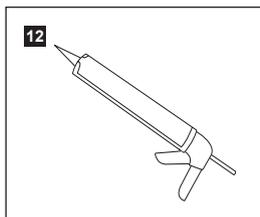
Chisel



Metal and wood saw



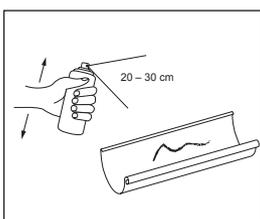
Sheet metal shears



Extrusion gun for cartridges

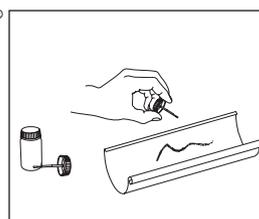
CORRECTION SPRAY AND PAINT

For minor scratches, use a correction spray or paint.



CORRECTION SPRAY KJG®

- 1 Clean the surface
- 2 Shake the spray can thoroughly
- 3 Spray thin coats from a distance of 20 – 30 cm evenly



PAINT CORRECTION KJG®

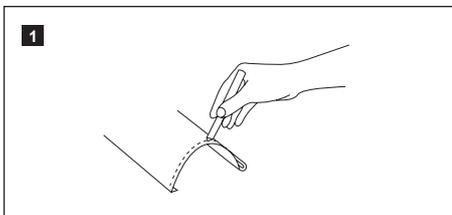
- 1 Clean the surface
- 2 Shake the bottle with the brush really thoroughly
- 3 Carefully apply the correction paint



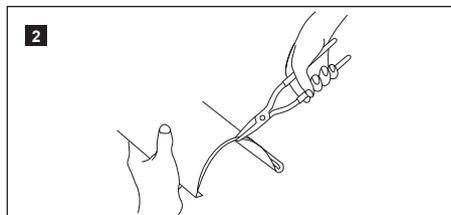
A

HALF-ROUND GUTTER END CAP

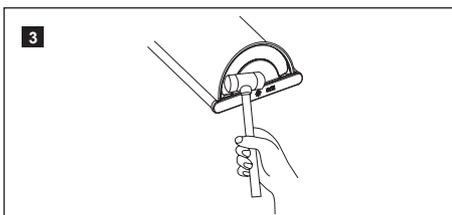
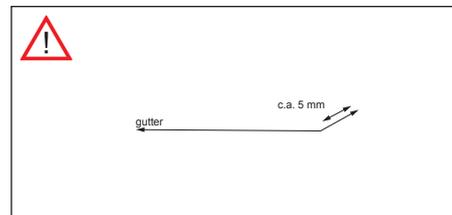
Designed for folding.



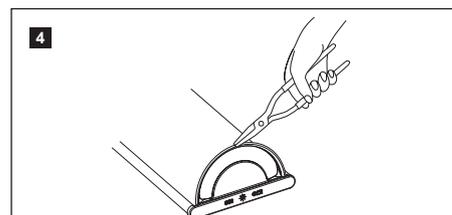
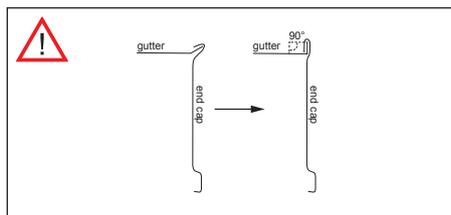
1 Measure approximately 5 mm from the end of the gutter and mark the spot



2 Along the entire length of the mark, bend approximately 5 mm from the edge using pliers.



3 Slide on the gutter end cap and tap it around the entire perimeter to secure it to the gutter.

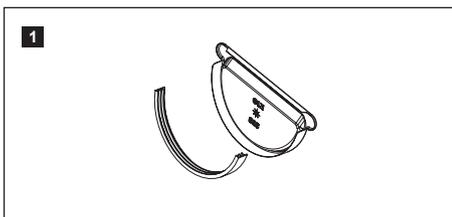


4 Uzavrite jemne falchými kliešťami. Pozor: nepoškrabte farbu!

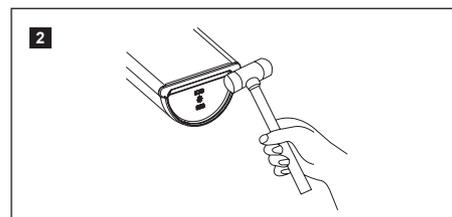
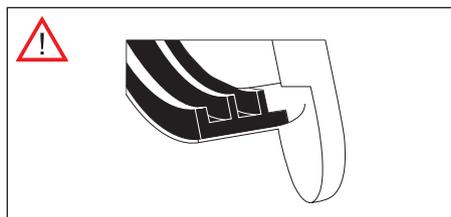
B

HALF-ROUND GUTTER END CAP WITH RUBBER SEAL

Designed for easy insertion.



1 Insert the rubber seal. Make sure it is oriented correctly – see the picture. Only in this position the joining is properly secured.

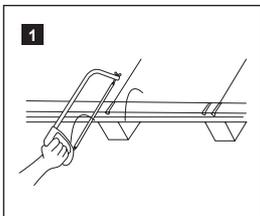


2 Fit the end cap onto the gutter and gently tap it into place on the gutter.

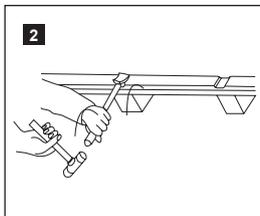


HALF-ROUND GUTTER HOOK

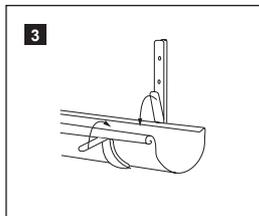
Tinsmith solution for installation on battening.



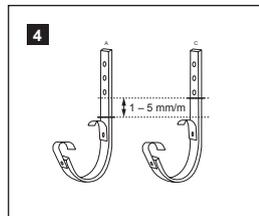
1
Cut notches for the gutter bracket according to the spacing of the individual rafters.



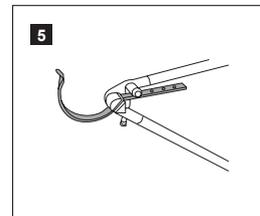
2
Cut out or mill the notch for the gutter bracket.



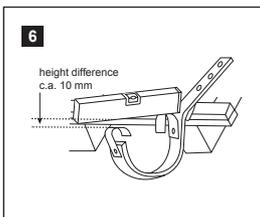
3
Fit the end gutter brackets A and C to the ends of the gutters so that they overlap, and bend the gutter bracket adapters of the gutter brackets. Then remove the gutter from the gutter bracket again while keeping the gutter bracket adapters closed.



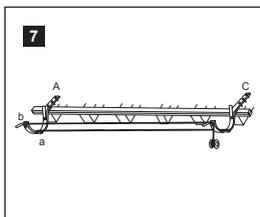
4
Based on the slope (1 – 5 mm/m), mark the highest and lowest points on brackets A and C to determine the bending point.



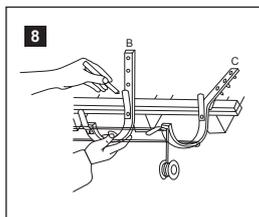
5
Using hook-bending pliers, bend the outer gutter brackets A and C at the marked points.



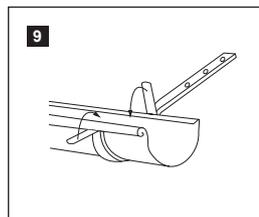
6
Check that the gutter height difference of approximately 10 mm is maintained.



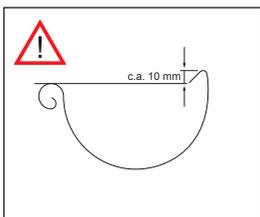
7
Install the first gutter bracket (A) into the prepared notch at the lowest point, and the last gutter bracket (C) at the highest point. Stretch a string between the two brackets and tighten it.



8
Align the gutter brackets (B) between the strings, mark the bending point, bend the gutter bracket, and install it into the notches.

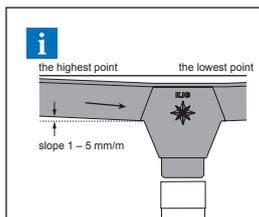


9
Remove the string, insert the gutter and secure it by bending both the gutter bracket adapters (first the front adapters, then the rear ones).



HEIGHT DIFFERENCE OF THE ROOF GUTTER

The height difference of the roof gutter allows accumulated rainwater to drain over the front edge of the gutter.



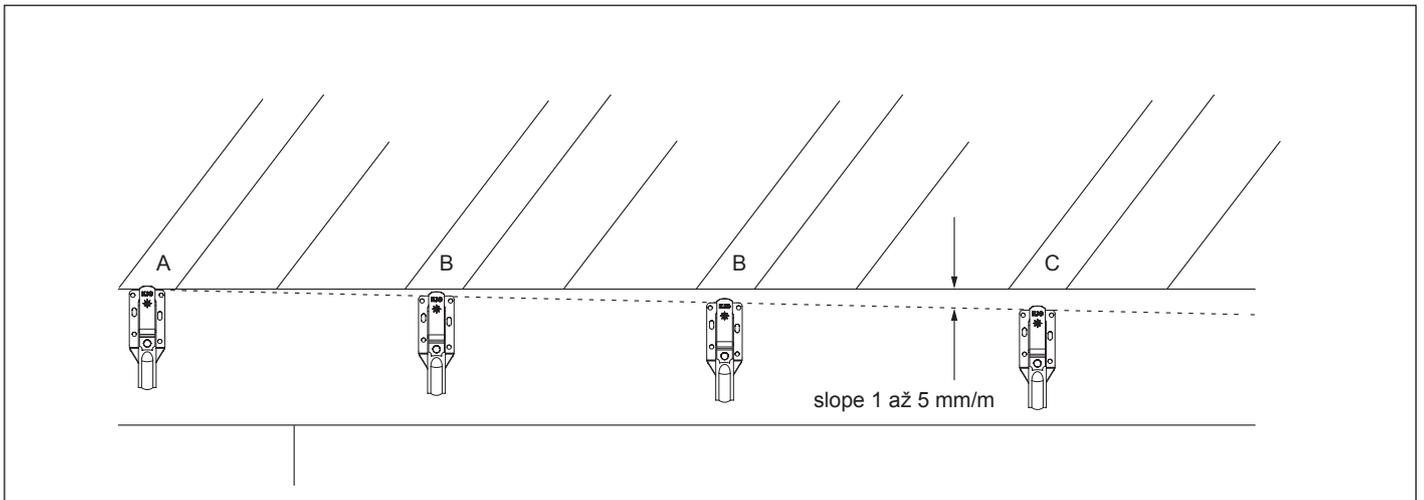
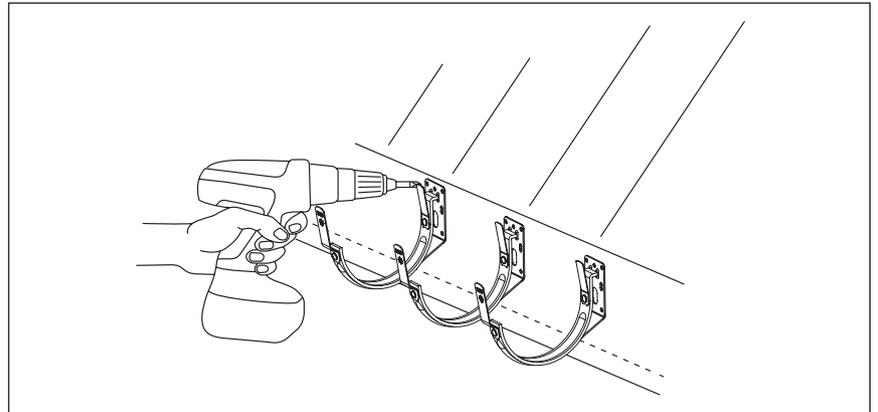
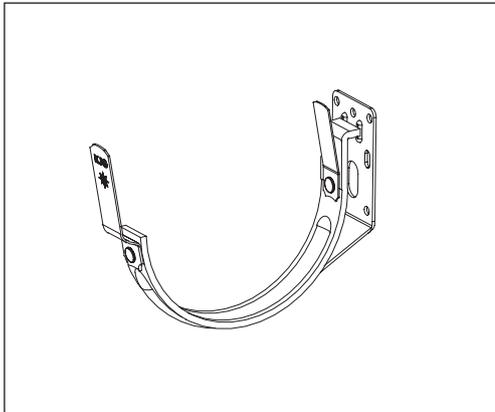
SLOPE

Install the roof gutter bracket with a slope of 1 – 5 mm/m.



HALF-ROUND HOOK FASCIA

Designed for front-mounted installation on a vertical board.

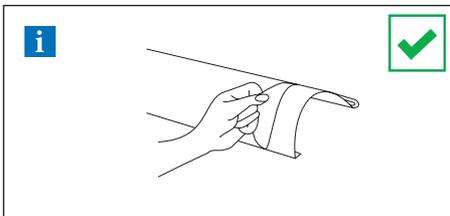


- 1** Install the first (A) and last (C) front-mounted brackets at spaced distances matching the rafters. Pay attention to the slope 1 – 5 mm/m!
- 2** Stretch a string between the front-mounted brackets (A, C) and align the individual brackets according to the string to ensure the correct slope. Install the front-mounted brackets at spaced distances matching the rafter spacing.
- 3** Remove the string and insert the gutter.
- 4** Secure the gutter in the front-mounted brackets by bending both gutter bracket adapters (first the front adapters, then the rear ones).

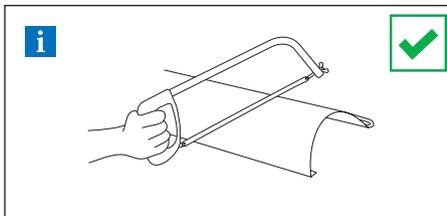


EXPANSION

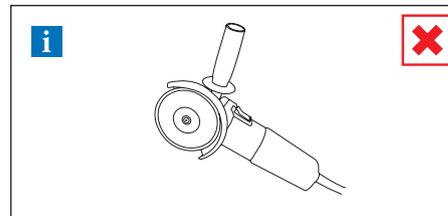
Linear expansion causes materials to expand and contract at different temperatures.



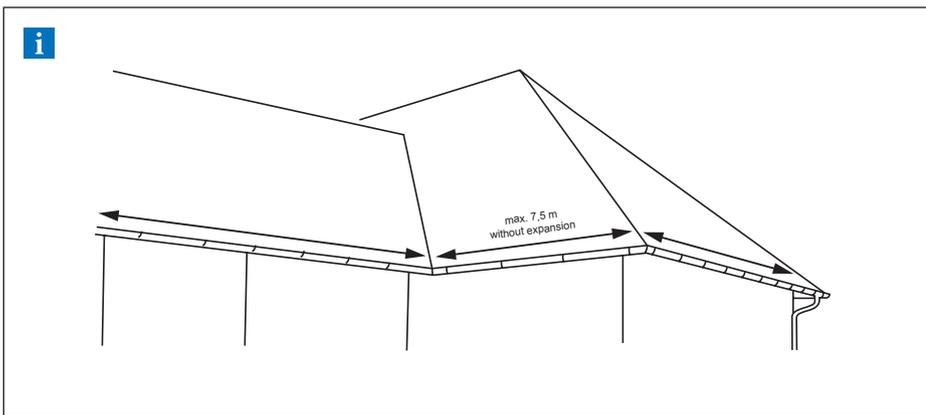
⚠ Before installing gutters and downspouts remove the protective foil!



⚠ A saw must be used to shorten the gutter!



⚠ The use of a grinder is not allowed!



MAXIMUM SIDE LENGTH

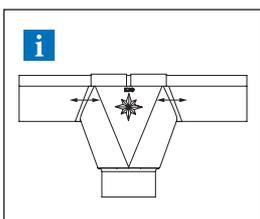
Maximum roof side length for proper compensation of linear expansion: 15 m.
For corner spacings, half the length always applies.

MATERIAL EXPANSION

Information on thermal expansion of individual materials can be found on page 44.

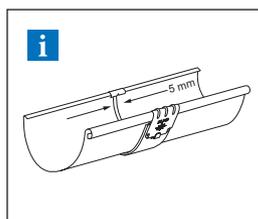
OPTIONS FOR JOINTS OF HALF-ROUND ROOF GUTTERS

Options for joints that can be used for compensating the linear expansion of individual materials.



LOOSE CONNECTION OF GUTTERS IN THE GUTTER OUTLET

Gutter overlap: 80 mm.



GUTTER CONNECTOR

Roof gutter connector with a 5 mm gap between gutters serves as an expansion joint.



DILATATION JOINERS

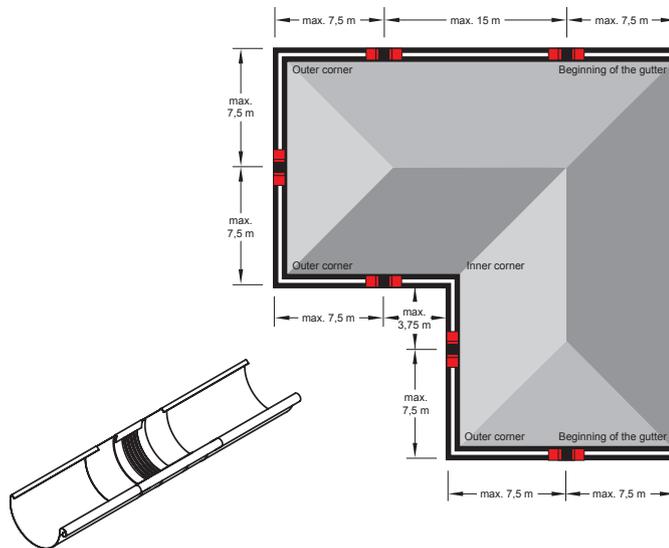
Dilatation are a flexible solution for thermal expansion caused by variability in external conditions.

GUTTER EXPANDERS

Installation example: eaves gutter with a developed width up to 500 mm. The expansion gutter must be installed at a spacing of 15 meters. For external corners and the gutter's starting point, half the standard value applies: maximum 7,5 m. For internal corners, one quarter of the standard value applies: maximum 3,75 m. For other materials and dimensions, refer to the table below. Corners are always considered as fixed points.

GUTTER EXPANDERS

Developed gutter width	Aluminium	Galvanized steel, Titanium zinc, Copper, Stainless steel
< 500	12	15
> 500	8	10



Note on installation of the expansion point gutter.

When installing using soldering, first cover the central rubber section with a damp cloth (to prevent heat transfer into the central rubber part). A minimum distance of 6 cm from the central rubber section must be maintained. In all cases, avoid direct contact of the rubber with an open flame.

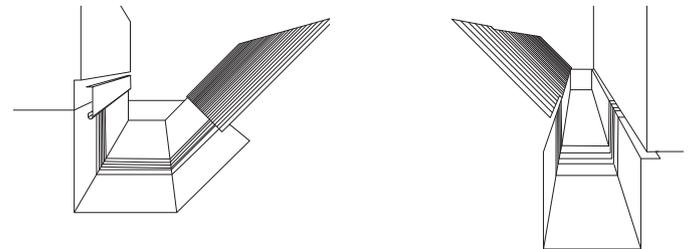
ENDLESS TAPES

Internal installation: mounted onto gutters without bonding to the substrate, roofs with non-standard profiles, and sheet-metal cladding of masonry.

ENDLESS TAPES

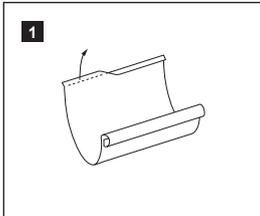
Developed gutter width	Aluminium	Galvanized steel, Titanium zinc, Copper, Stainless steel
< 500	8	10
> 500	6	8

For the gutter external corner or beginning, half of the standard value applies.
For an internal corner, one quarter of the standard value applies.

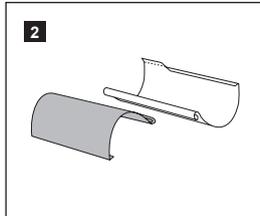


Note on installation of the expansion point strip. During bending and installation of expansion elements, make sure that:

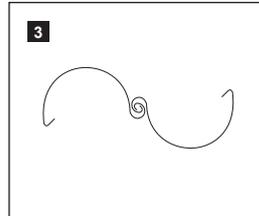
- The bending jaws have a radius of at least 2 mm.
- For sheet metal thickness of 1 mm or more, the bending radius must be at least 5 mm.
- During bending, the jaws must be adjusted to the thickness the central rubber section (3 – 4 mm) to prevent a shearing effect – rubber damage.
- The rubber central section must not be compressed or damaged during bending. To prevent this, an aluminium sheet strip (2 – 5 mm thick) should be bent and mounted onto the jaws as protection. This provides a larger bending radius and helps prevent damage to the central rubber section.

**A****BONDING**

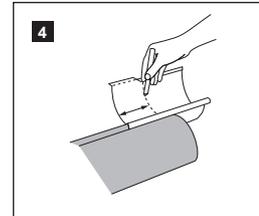
1
Bend out a return water groove using flat pliers.



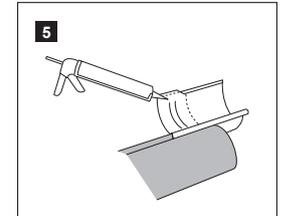
2
Join the gutters to each other using hemmed edges (overlap approx. 80 mm).



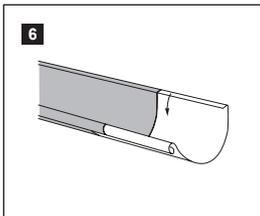
3
Join both gutters by overlapping their hemmed edges.



4
Ensure sufficient overlap of the gutters and mark it accordingly.



5
Apply the special roofing sealant SCH-SPENGLER 390 in two rows onto the clean and dry surface of the gutter (marked area), with a minimum width of 8 mm.



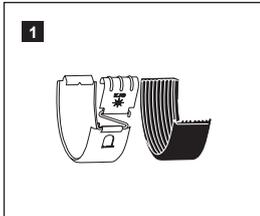
6
Place the gutters together and bend back the return water groove using flat pliers.



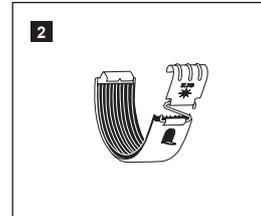
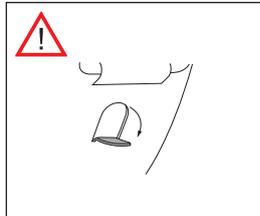
B

GUTTER CONNECTOR

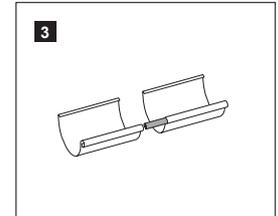
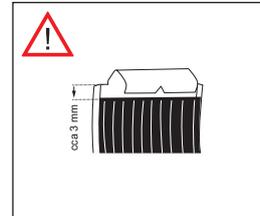
Gutter connector with a locking mechanism for gutters sized according to EN 612



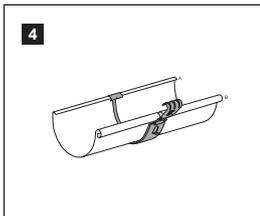
1
Open the locking mechanism on the gutter connector.



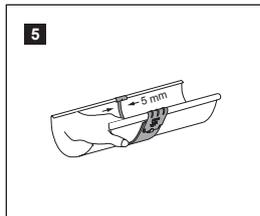
2
Paste in the rubber seal approximately 3 mm below the cutout and allow it to slightly overlap at the front.



3
Slide the hemmed edge connector all the way to the marked point (not required during repairs). Leave a 5 mm gap between the gutters to allow for proper expansion.



4
With light counter-pressure on the inside, hook the clip over the hemmed edge and snap it into place (audible click!). Close the locking mechanism.

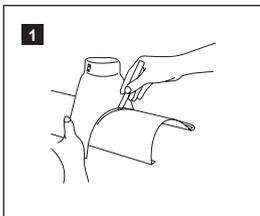


5
With light counter-pressure on the inside, hook the clip over the hemmed edge and snap it into place (audible click!). Close the locking mechanism.

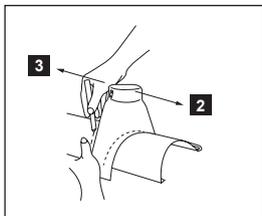


A

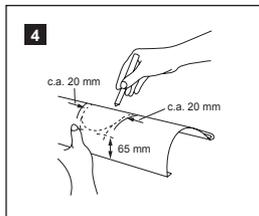
EASY INSTALLATION OF A GUTTER OUTLET



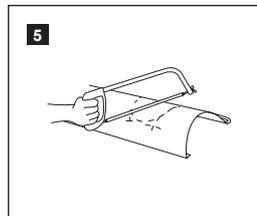
1 Place the gutter outlet onto the gutter. Trace its outline on the gutter to the right and left.



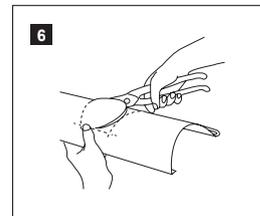
2 Shift the gutter outlet 20 mm to both sides and trace it again.



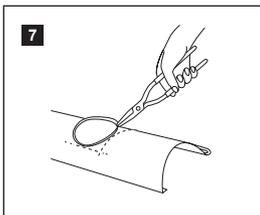
4 Measure 65 mm from the edge of the gutter and mark the spot. Create a circular outline that matches the inner shape of the gutter outlet (see the picture).



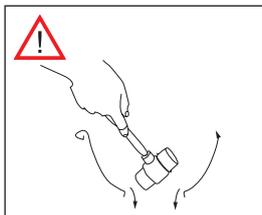
5 Cut through the centre using a hacksaw.



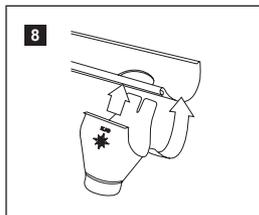
6 Cut out the opening using sheet metal shears.



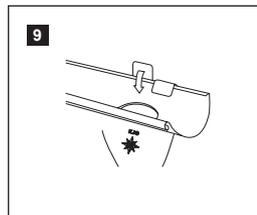
7 Bend the edges upward with pliers and create a hem.



8 Tap the edges of the opening inside the gutter with a rubber mallet.



9 Attach the gutter outlet by hooking it so that the holes in the gutter and outlet are aligned.

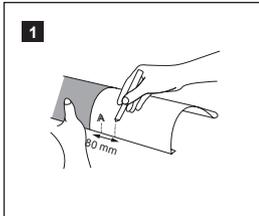


10 Secure the outlet firmly to the gutter.

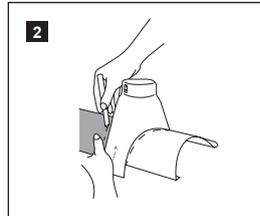


B

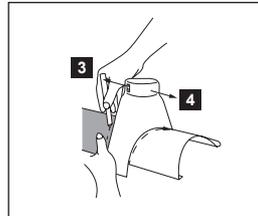
INSTALLATION OF A HALF-ROUND GUTTER OUTLET



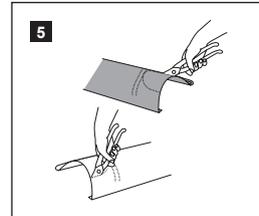
1
Insert the gutters 80 mm into each other, notice: do not use any adhesive! On the upper gutter, mark 40 mm (A, centred in relation to the mark of 80 mm).



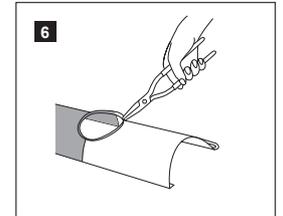
2
Position the gutter outlet centred at the 40 mm mark (A). Trace its outline on the gutter to the right and left.



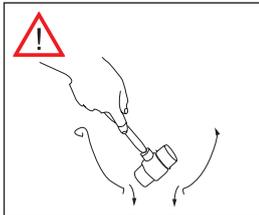
3
Measure 20 mm from the mark and shift it inward (both left and right). From the edge of the gutter, measure 65 mm upwards and mark the spot. Connect this point with the inner marking of the outlet in a circular line.



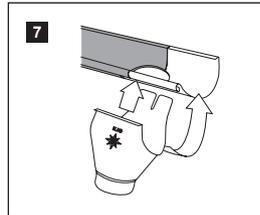
5
Cut out the resulting half-rounds on both gutters using sheet metal shears (complete the half-round on the second gutter).



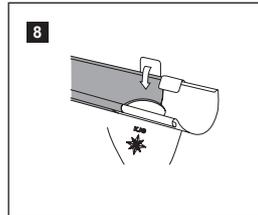
6
Slide the gutters together again with an 80 mm overlap. Use pliers to bend the edges.



Tap around the edges of the opening inside the gutter using a rubber mallet.



7
Hang the gutter outlet at the centre of the roof gutter.



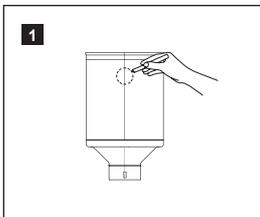
8
Secure the gutter outlet firmly to the roof gutter.



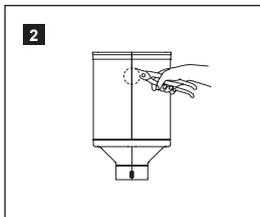
A

INSTALLATION ON A FACADE

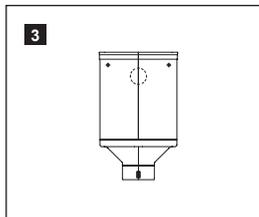
Hopper eccentric



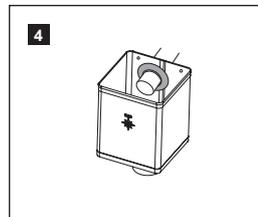
1
Create an opening: measure the diameter and mark it on the appropriate side of the collection outlet.



2
Cut out the opening using sheet metal shears.



3
Mark the fastening holes (min. 20 mm from the edge). And drill the holes.

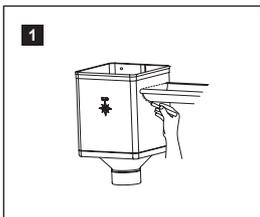


4
Fix the gutter outlet using suitable fastening materials.
Tip: Attach the EPDM sealing rubber of the gutter outlet.

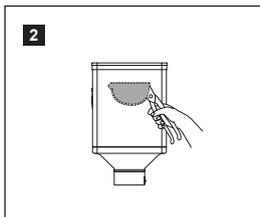
B

INSTALLATION ON A GUTTER

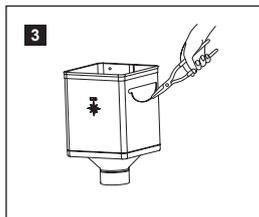
Hopper



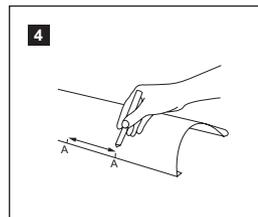
1
Place the gutter outlet against the gutter at the desired height and trace the gutter opening from the outside.



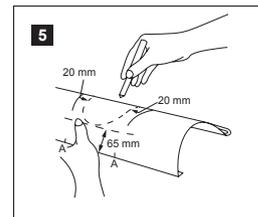
2
To create the opening, reduce the lower marking of the gutter by 5 mm. Cut out the resulting outer section (grey area shown in the picture) using sheet metal shears.



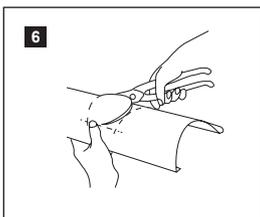
3
Bend the lower edge of the opening outward using sheet metal shears (see the picture). Repeat the individual steps for the opposite side of the gutter outlet: mark, cut out and bend the edge.



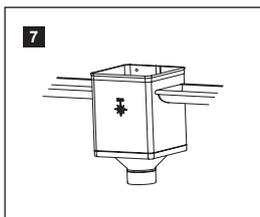
4
Prepare the opening on the gutter: mark the width of the gutter outlet at the desired location on the gutter.



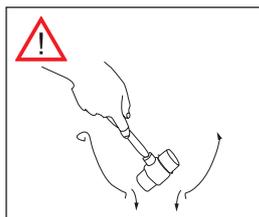
5
Mark 65 mm from the edge of the gutter, and 20 mm on both sides inside the gutter outlet (A). Connect the individual marks.



6
Cut out the opening using sheet metal shears.



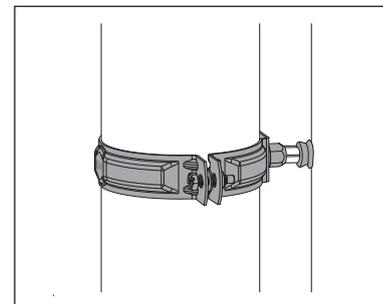
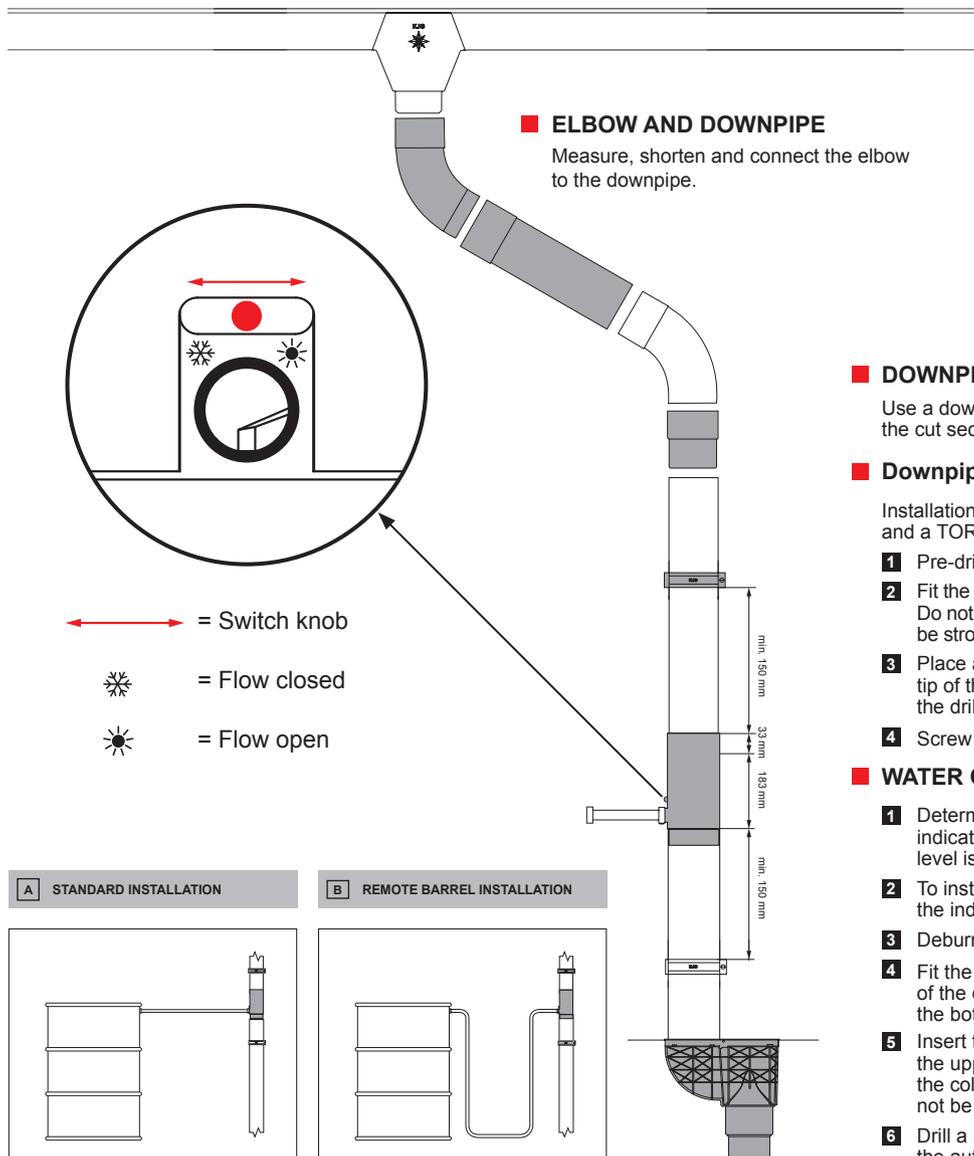
7
Insert the gutter into the collection outlet, then hang both the collection outlet and the gutter onto the hooks.



Create a hem on the edges of the opening inside the gutter using a rubber mallet.



EXAMPLES OF APPLICATIONS OF THE HALF-ROUND GUTTER SYSTEM KJG



Downpipe bracket with thread M10. Installation on an example of solid brick (without thermal requirements).

■ DOWNPIPE CONNECTOR

Use a downpipe connector to join the cut sections of a downpipe.

■ Downpipe bracket with thread M10

Installation using M10 lamellar anchor plugs and a TORX M10 threaded tip.

- 1 Pre-drill a hole with a diameter of 10 mm.
- 2 Fit the anchor plug. If the hole is too shallow, drill it deeper. Do not shorten the anchor plug – the connection would not be strong enough.
- 3 Place a rubber cap onto the TORX M10 threaded tip of the bracket and screw it in. The cap seals the drilled hole.
- 4 Screw on the bracket with the M10 nut.

■ WATER COLLECTOR WITH HOSE AND KNOB

- 1 Determine the location for the container: the top line indicates the height of the container, the water level is marked with a wave symbol.
- 2 To install the water collector: cut the downpipe along the indicated lines (see the picture).
- 3 Deburr both ends of the downpipes.
- 4 Fit the removable top part onto the upper section of the downpipe and slide it into place. Then attach the bottom part.
- 5 Insert the water collector into the lower downpipe; slide the upper part of the collector downward. Do not fix the collector permanently, otherwise cleaning will not be possible.
- 6 Drill a hole in the container at the same height as the automatic diverter.



TECHNICAL AND INFORMATION AIDS



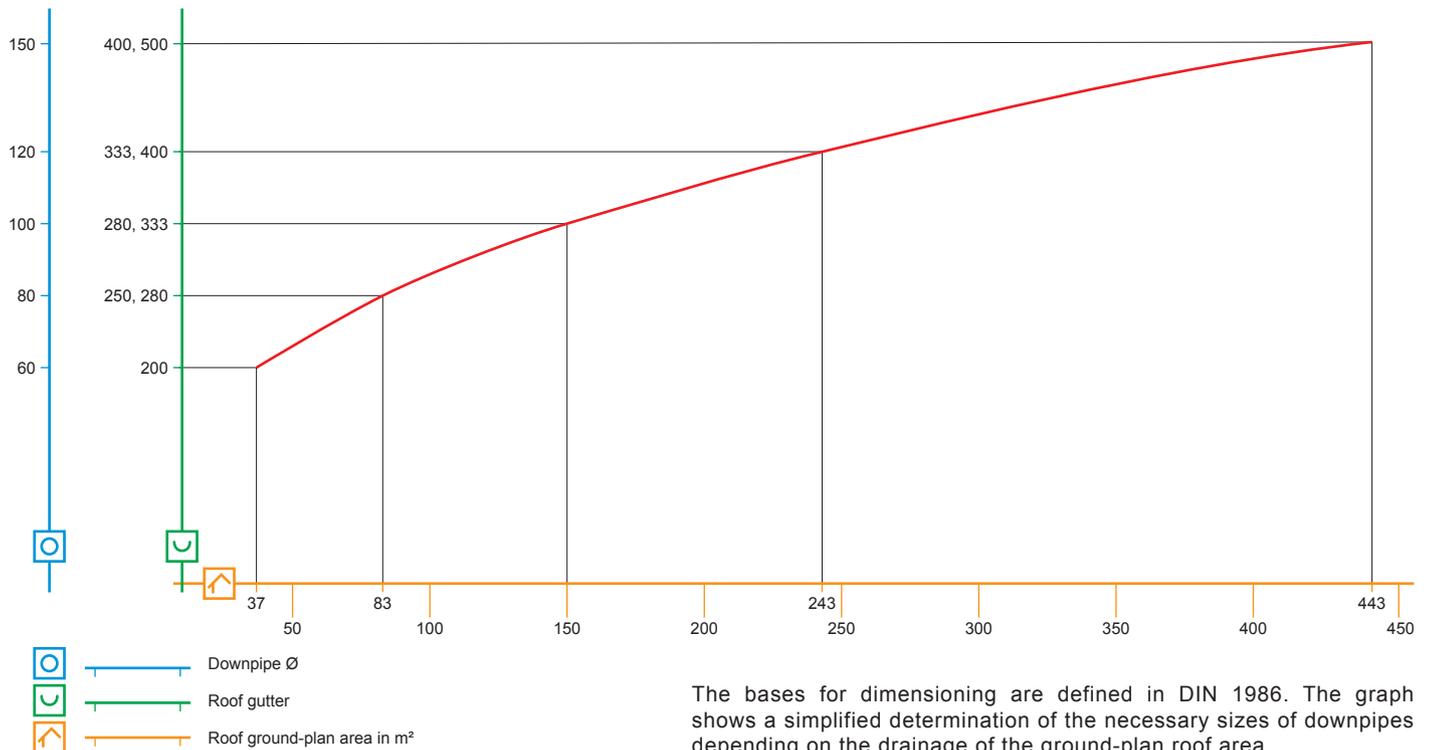


Table to determine the size of downpipes and roof gutters depending on the ground-plan size of the roof area to be drained.

 Roof ground-plan area in m ²	 Downpipe Ø	 Roof gutter
0 – 37	60	200
37 – 83	80	250, 280
83 – 150	100	280, 333
150 – 243	120	333, 400
243 – 443	150	400, 500

The maximum ground-plan area of the roof intended for drainage corresponding to one downpipe located at the end of the gutter slope. Placing the downpipe in the middle of the roof gutter (centrally) increases efficiency by 60 %. If one downpipe is not enough for a given area, the number of downpipes on a given roof gutter shall be increased.

Nomogram for determining the size of downpipes and roof gutters depending on the ground-plan size of the roof area to be drained.




Weight of metals for given thicknesses

Material	0,50 mm	0,55 mm	0,60 mm	0,65 mm	0,70 mm	0,80 mm	1,00 mm	1,50 mm
Galvanized steel	3,93 kg/m ²	4,32 kg/m ²	4,71 kg/m ²	5,10 kg/m ²	5,50 kg/m ²	6,28 kg/m ²	7,86 kg/m ²	11,79 kg/m ²
Galvanized steel prepainted	3,93 kg/m ²	4,32 kg/m ²	4,71 kg/m ²	5,10 kg/m ²	5,50 kg/m ²	6,28 kg/m ²	7,86 kg/m ²	11,79 kg/m ²
Aluminium	1,35 kg/m ²	1,49 kg/m ²	1,62 kg/m ²	1,75 kg/m ²	1,89 kg/m ²	2,16 kg/m ²	2,70 kg/m ²	4,05 kg/m ²
Aluminium prepainted	1,35 kg/m ²	1,49 kg/m ²	1,62 kg/m ²	1,75 kg/m ²	1,89 kg/m ²	2,16 kg/m ²	2,70 kg/m ²	4,05 kg/m ²
Titanium zinc	3,60 kg/m ²	3,96 kg/m ²	4,32 kg/m ²	4,68 kg/m ²	5,04 kg/m ²	5,76 kg/m ²	7,20 kg/m ²	10,80 kg/m ²
Titanium zinc Patina	3,60 kg/m ²	3,96 kg/m ²	4,32 kg/m ²	4,68 kg/m ²	5,04 kg/m ²	5,76 kg/m ²	7,20 kg/m ²	10,80 kg/m ²
Copper	4,46 kg/m ²	4,90 kg/m ²	5,35 kg/m ²	5,80 kg/m ²	6,25 kg/m ²	7,14 kg/m ²	8,93 kg/m ²	13,39 kg/m ²
Copper Patina	4,46 kg/m ²	4,90 kg/m ²	5,35 kg/m ²	5,80 kg/m ²	6,25 kg/m ²	7,14 kg/m ²	8,93 kg/m ²	13,39 kg/m ²
Stainless steel	3,95 kg/m ²	4,34 kg/m ²	4,74 kg/m ²	5,13 kg/m ²	5,53 kg/m ²	6,32 kg/m ²	7,90 kg/m ²	11,85 kg/m ²

 Weights refer to 1 m² of sheet metal

Material thermal expansion of used metals

Temperature	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C	70 °C	80 °C	90 °C	100 °C
Galvanized steel	0,12 mm/m	0,24 mm/m	0,36 mm/m	0,48 mm/m	0,60 mm/m	0,72 mm/m	0,84 mm/m	0,96 mm/m	1,08 mm/m	1,20 mm/m
Galvanized steel prepainted	0,12 mm/m	0,24 mm/m	0,36 mm/m	0,48 mm/m	0,60 mm/m	0,72 mm/m	0,84 mm/m	0,96 mm/m	1,08 mm/m	1,20 mm/m
Aluminium	0,24 mm/m	0,48 mm/m	0,72 mm/m	0,96 mm/m	1,20 mm/m	1,44 mm/m	1,68 mm/m	1,92 mm/m	2,16 mm/m	2,40 mm/m
Aluminium prepainted	0,24 mm/m	0,48 mm/m	0,72 mm/m	0,96 mm/m	1,20 mm/m	1,44 mm/m	1,68 mm/m	1,92 mm/m	2,16 mm/m	2,40 mm/m
Titanium zinc	0,22 mm/m	0,44 mm/m	0,66 mm/m	0,88 mm/m	1,10 mm/m	1,32 mm/m	1,54 mm/m	1,76 mm/m	1,98 mm/m	2,40 mm/m
Titanium zinc Patina	0,22 mm/m	0,44 mm/m	0,66 mm/m	0,88 mm/m	1,10 mm/m	1,32 mm/m	1,54 mm/m	1,76 mm/m	1,98 mm/m	2,20 mm/m
Copper	0,17 mm/m	0,34 mm/m	0,51 mm/m	0,68 mm/m	0,85 mm/m	1,02 mm/m	1,19 mm/m	1,36 mm/m	1,53 mm/m	1,70 mm/m
Copper Patina	0,17 mm/m	0,34 mm/m	0,51 mm/m	0,68 mm/m	0,85 mm/m	1,02 mm/m	1,19 mm/m	1,36 mm/m	1,53 mm/m	1,70 mm/m
Stainless steel	0,16 mm/m	0,32 mm/m	0,48 mm/m	0,64 mm/m	0,80 mm/m	0,96 mm/m	1,12 mm/m	1,28 mm/m	1,44 mm/m	1,60 mm/m

Material expansion is given in millimetres per meter, the temperature is in degrees Celsius



Metals you can use together for construction

Material	Galvanized steel	Galvanized steel pre-painted	Aluminium	Aluminium pre-painted	Titanium zinc	Titanium zinc Patina	Copper	Copper Patina	Stainless steel
 Galvanized steel	✓	✓	✓	✓	✓	✓	✗	✗	✓
 Galvanized steel pre-painted	✓	✓	✓	✓	✓	✓	✗	✗	✓
 Aluminium	✓	✓	✓	✓	✓	✓	✗	✗	✓
 Aluminium pre-painted	✓	✓	✓	✓	✓	✓	✗	✗	✓
 Titanium zinc	✓	✓	✓	✓	✓	✓	✗	✗	✓
 Titanium zinc Patina	✓	✓	✓	✓	✓	✓	✗	✗	✓
 Copper	✗	✗	✗	✗	✗	✗	✓	✓	✓
 Copper Patina	✗	✗	✗	✗	✗	✗	✓	✓	✓
 Stainless steel	✓	✓	✓	✓	✓	✓	✓	✓	✓

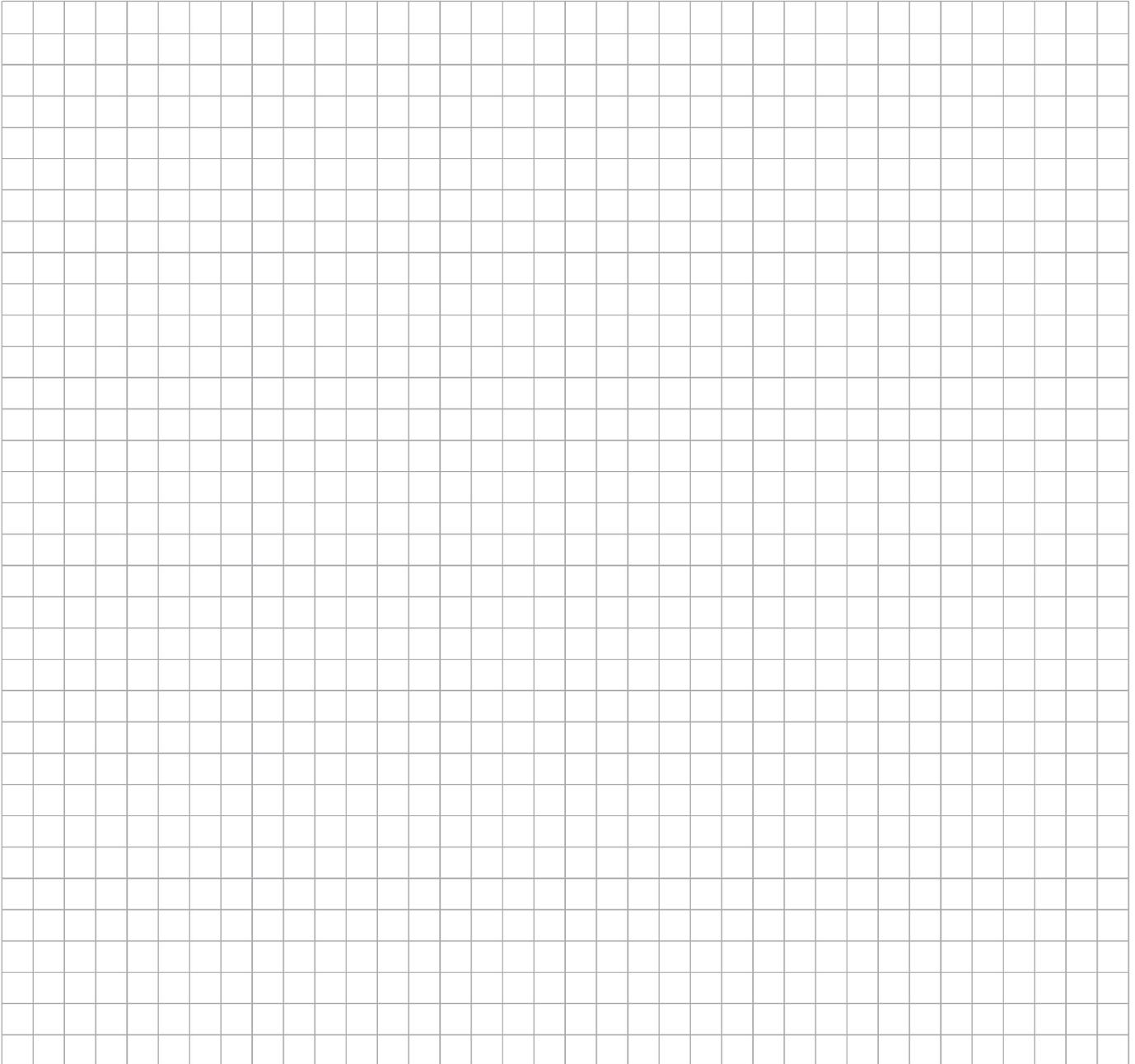
✓ = connection possible

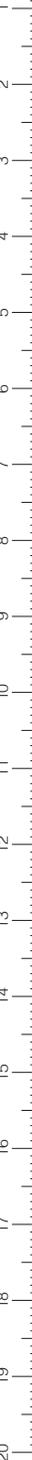
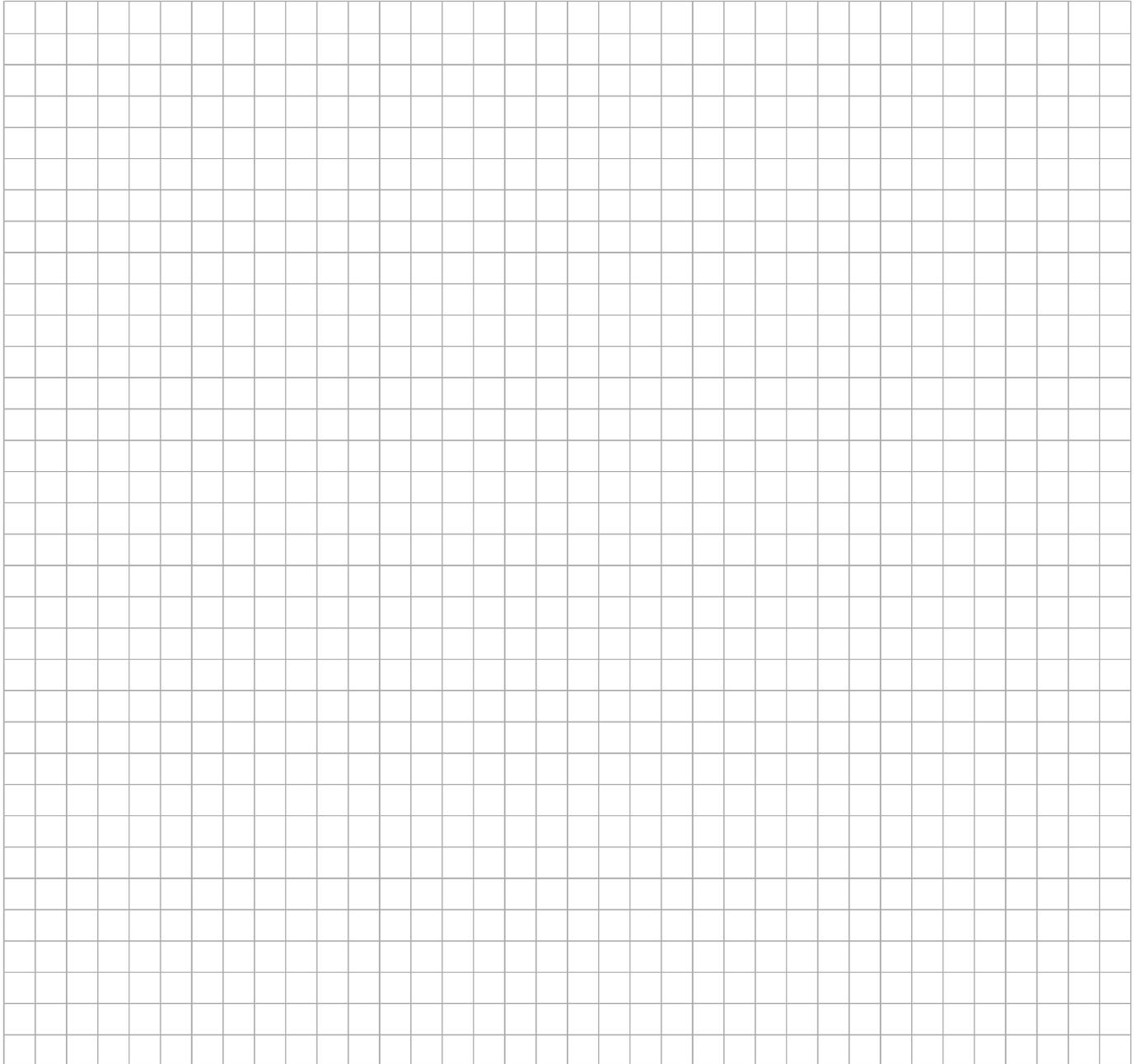
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PLACE FOR POWERFUL IDEAS





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10 REASONS TO CHOOSE KJG

- 1. Quality products with a long tradition
- 2. Complete roof system
- 3. Wide range of materials
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- 5. Delivery directly on request
- 6. Resistant to weather conditions
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KJG a.s.

Malinovského 800/131
916 21 Čachtice
Slovakia

Company ID: 31439951
Tax ID: 2020380769
VAT reg. no.: SK2020380769

E-mail: kjg@kjg.sk
Telefón: +421 32 774 34 10
Web: www.kjg.sk

Shops KJG:

Čachtice, Družstevná 746/32

Bratislava, Rybníčná 49

Nitra, Cabajská 23

Banská Bystrica, Zvolenská cesta 14

Turčin - Donji Kneginec, Ulica kralja Andrije II. 4
(Croatia)