



STROMBERG

Refractory Anchorage Systems



CERTIFICATE

This is to certify that the company

Stromberg GmbH

Borsigstraße 5
D-40880 Ratingen



STROMBERG
Refractory Anchorage Systems

for the scope of application

manufacturing and sales of specialized thermal-resistant-anchoring elements, smaller ceramic construction modules, respectively fire-proof manufactured elements, plus ready to install heat protective systems and wire bending parts

has established and applies a management system, that fulfills the requirements of the following standard:

DIN EN ISO 9001:2008

The proof of ability was performed by an audit documented in a report. The permanent effective practice of the management system by the company will be yearly monitored by AGM-Zert GmbH.

Original Approval : 2006-12-07
Validity of the certificate : 2015-12-07 – 2018-12-06
Certificate Registration No. : 127-06 / 004 – GER

Düsseldorf, 2015-11-27

Certification Body
AGM-Zert GmbH

Office:
Eichendorffstraße 3
D-40474 Düsseldorf
HRB 32496

Zertifikat A4 9001
Rev.14 / 15.09.2015





Stromberg GmbH are based in Ratingen Germany close to the city of Düsseldorf.

Stromberg GmbH was founded in 1981 by Günter Stromberg. As a family business Stromberg GmbH has worked as an engineering office and at the same time started the production of Hex Metal (Original American style, clinch connections folded outwards).

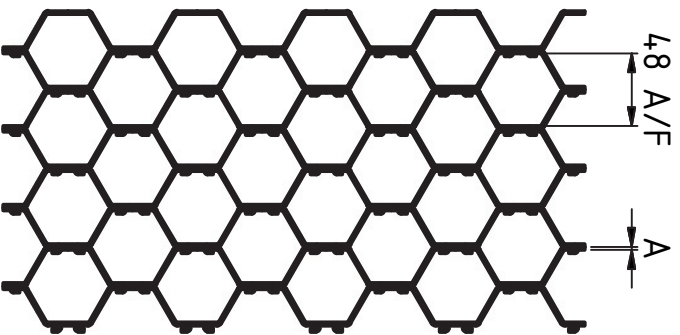
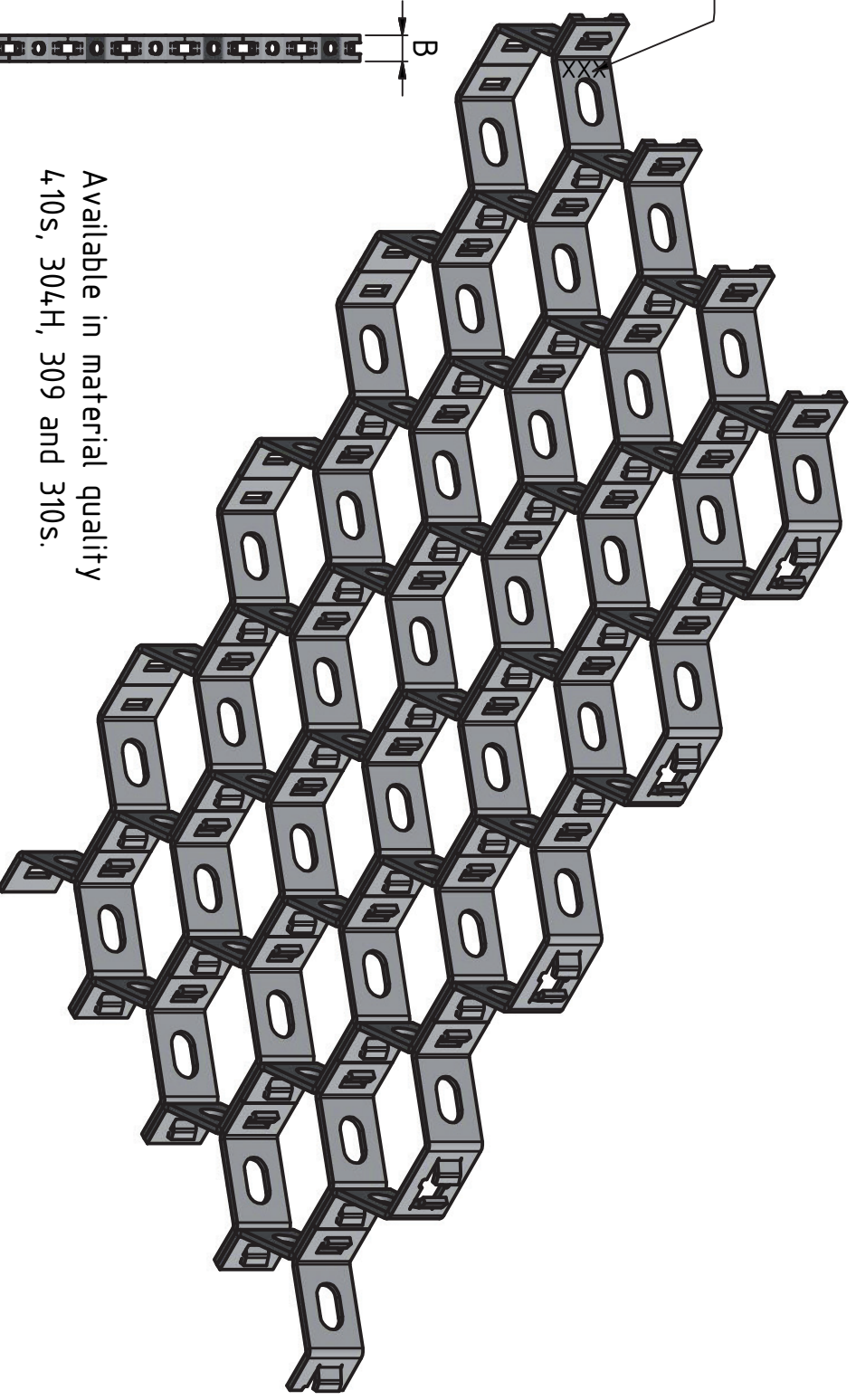
By the end of the 1980s, the production of refractory elements and heat protection had started and the production of flat steel anchors was expanded.

In 2010 the management was expanded and in the following year the production of round anchors with diameters of 6 to 10 mm was established. In 2014 this was extended by the world's largest 3D wire bending machine capable of producing refractory anchors to 16mm diameter. In 2015, the management was expanded once again to include an experienced design engineer.


Stromberg GmbH are now producing the full range of refractory anchors Hexmetal (clinch connections folded inwards and tight pressed), Flexmetal, anchors and ancillaries for the Petrochemical Industry and specifically for FCCU's.

Today Stromberg GmbH employs more than 20 people at its production site in Ratingen and can provide a prompt and competitive range of products and services.

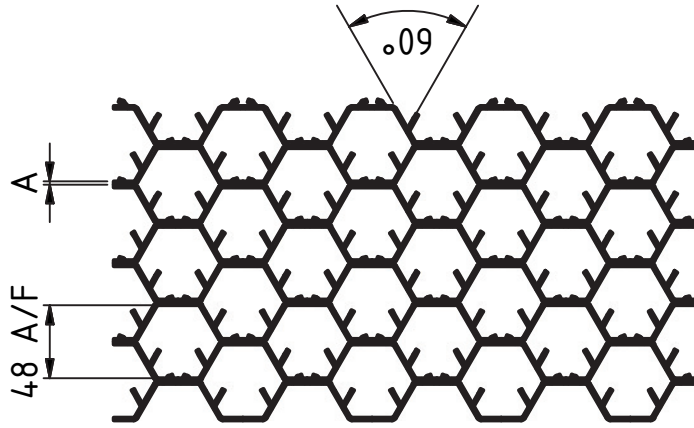
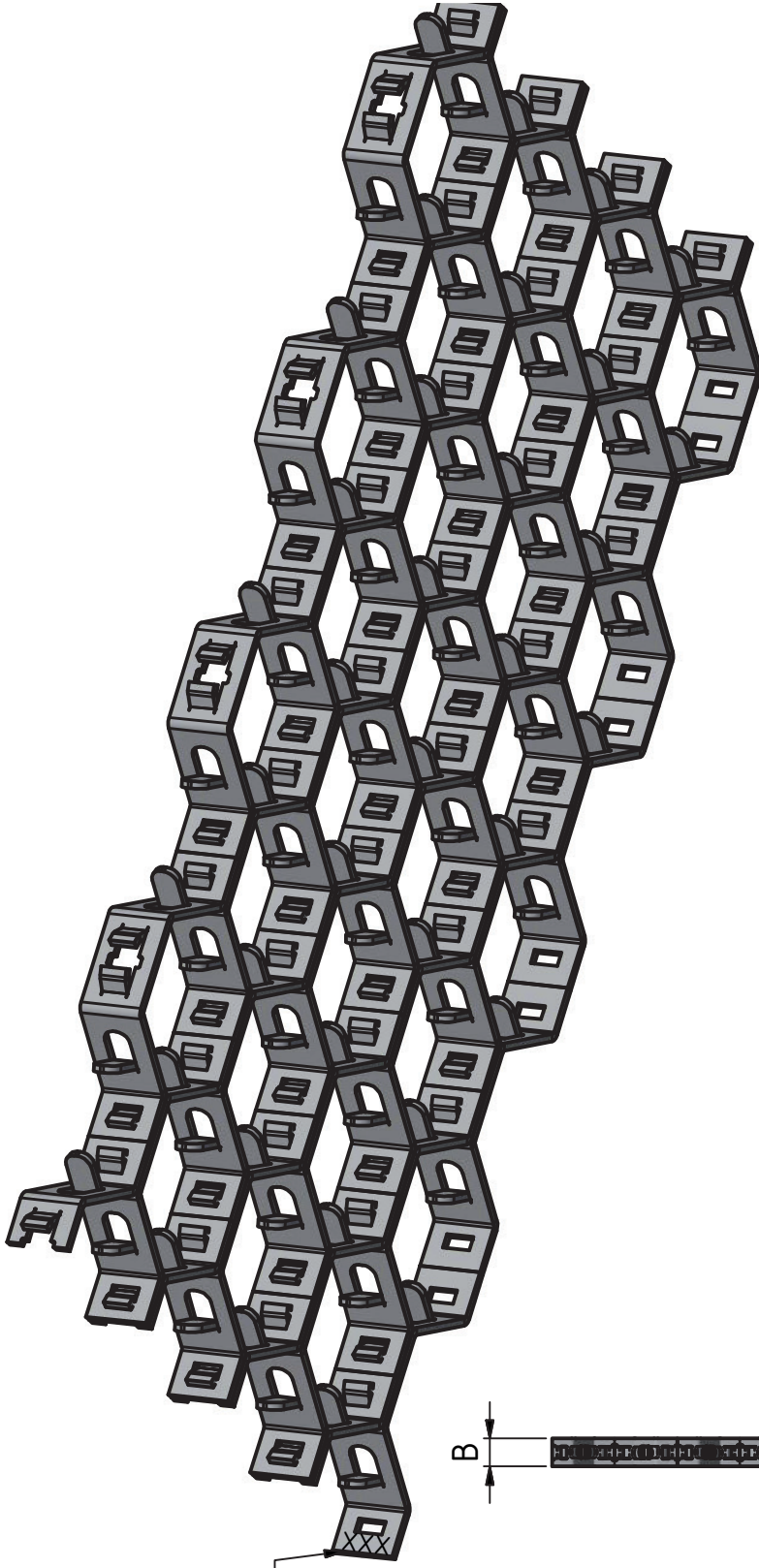
Material identification on request



Available in material quality
4.10s, 304H, 309 and 310s.

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Drawing reference customer:		Appr.: 28.05.2018	AM	Bonding hole type	
Commission customer:		Scale: 28.05.2018	Format	Drawing No.: 5018001	
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Material:					

Material identification on request

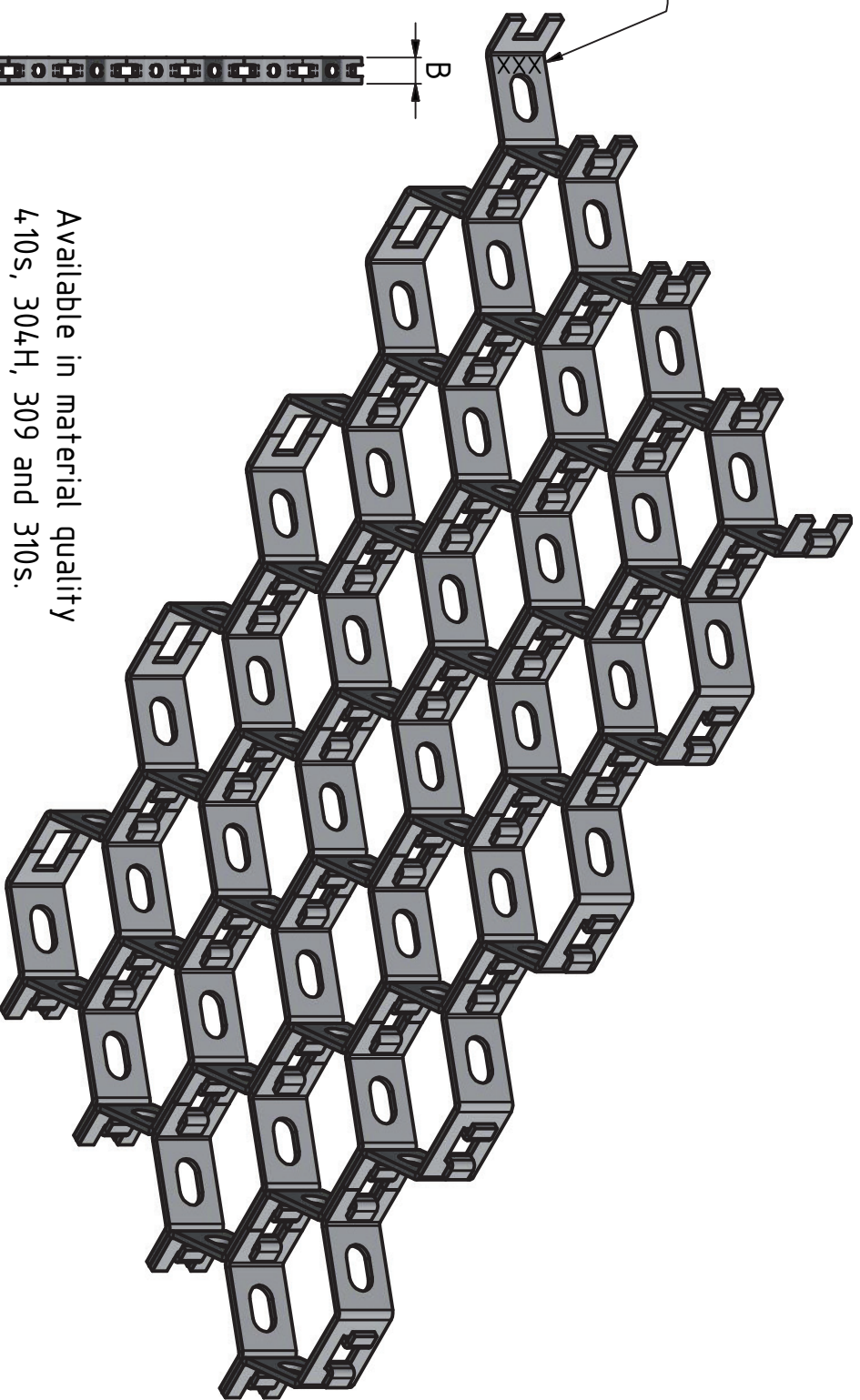
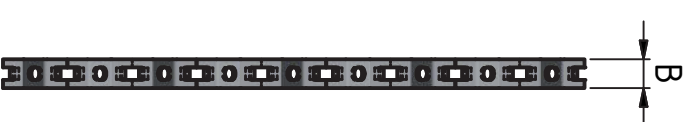
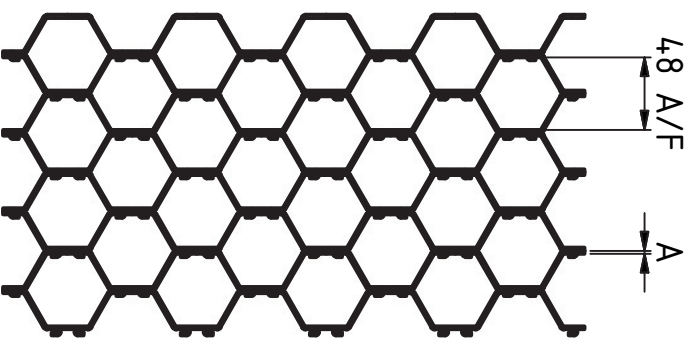


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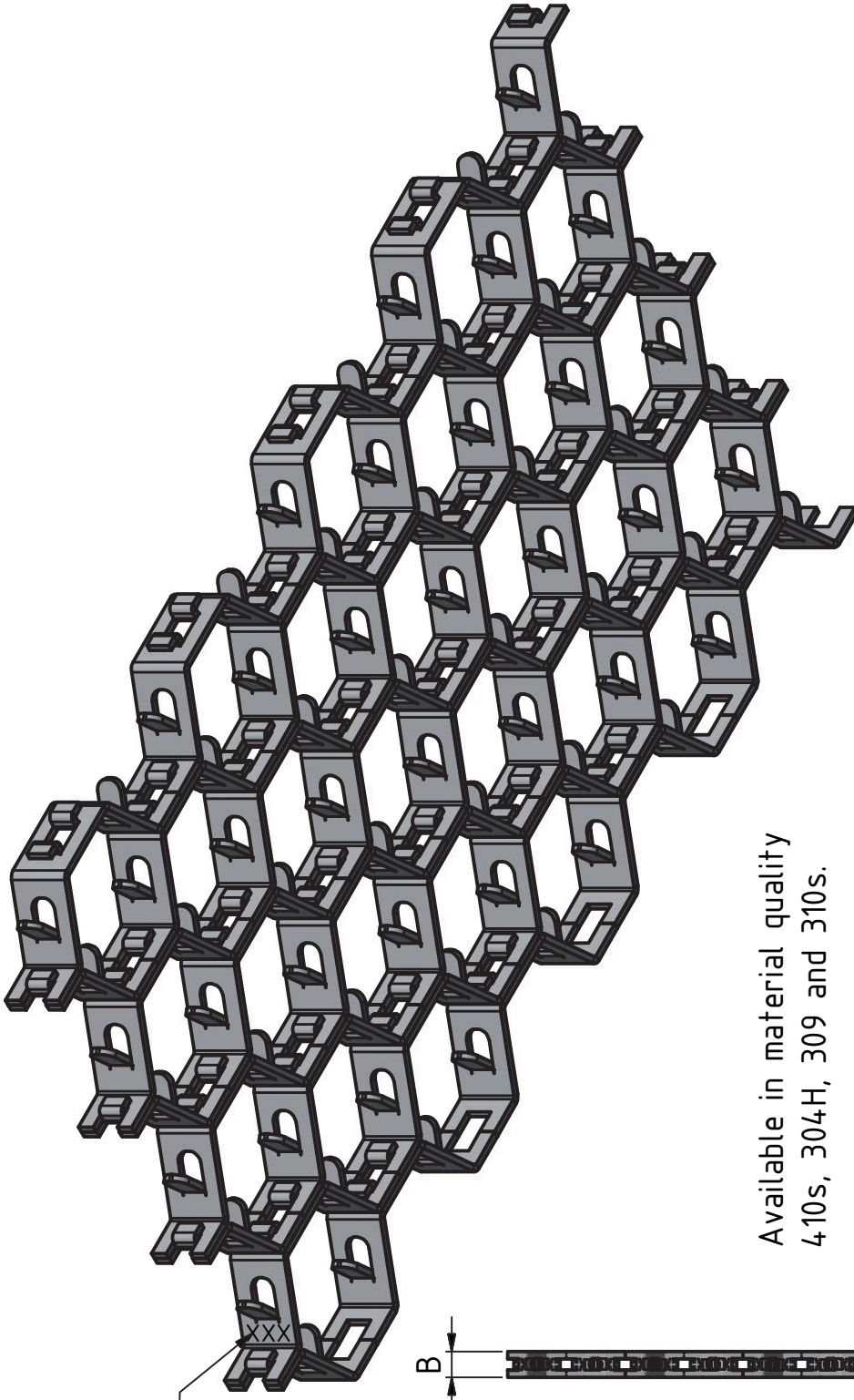
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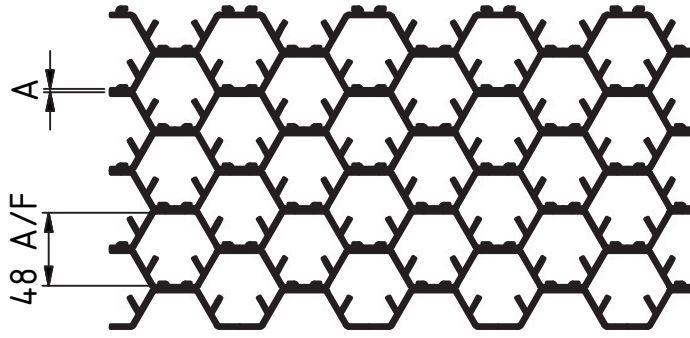


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<p>Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration</p>		 STROMBERG <small>Reaktor-/Anlage-Systeme</small>		Weight in kg: -	
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Drawing reference customer:		Scale: 28.05.2018		Item: H01 US UOP Org. HexMetal Bonding hole type	
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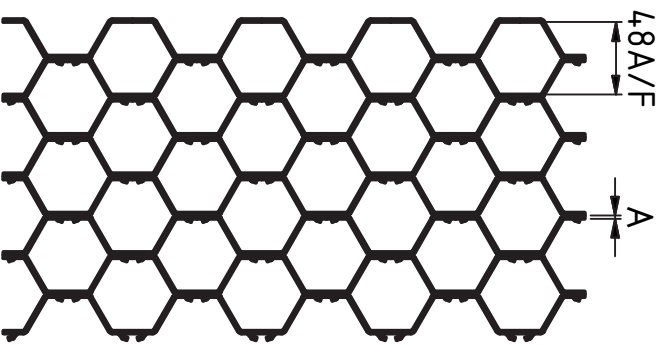
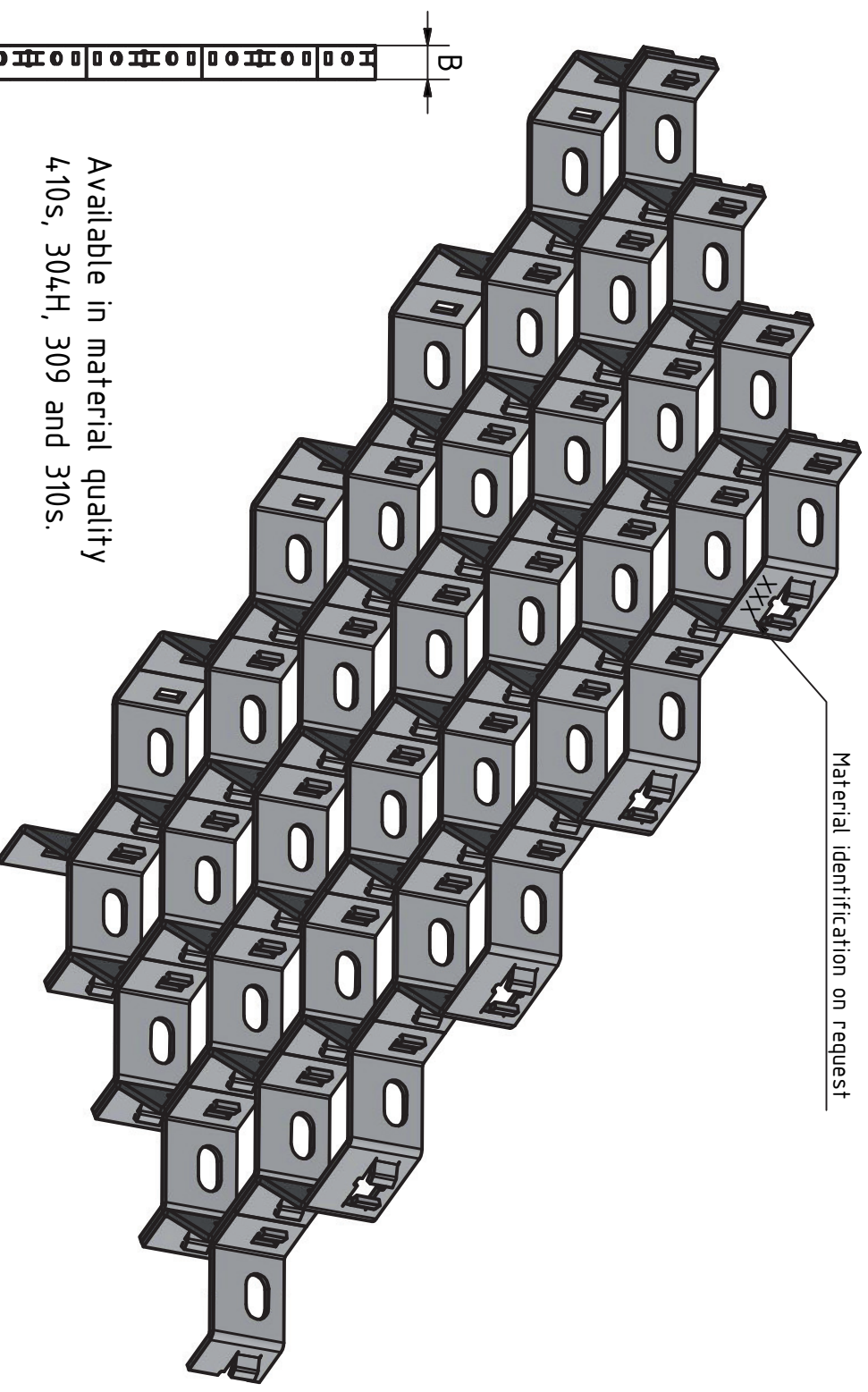


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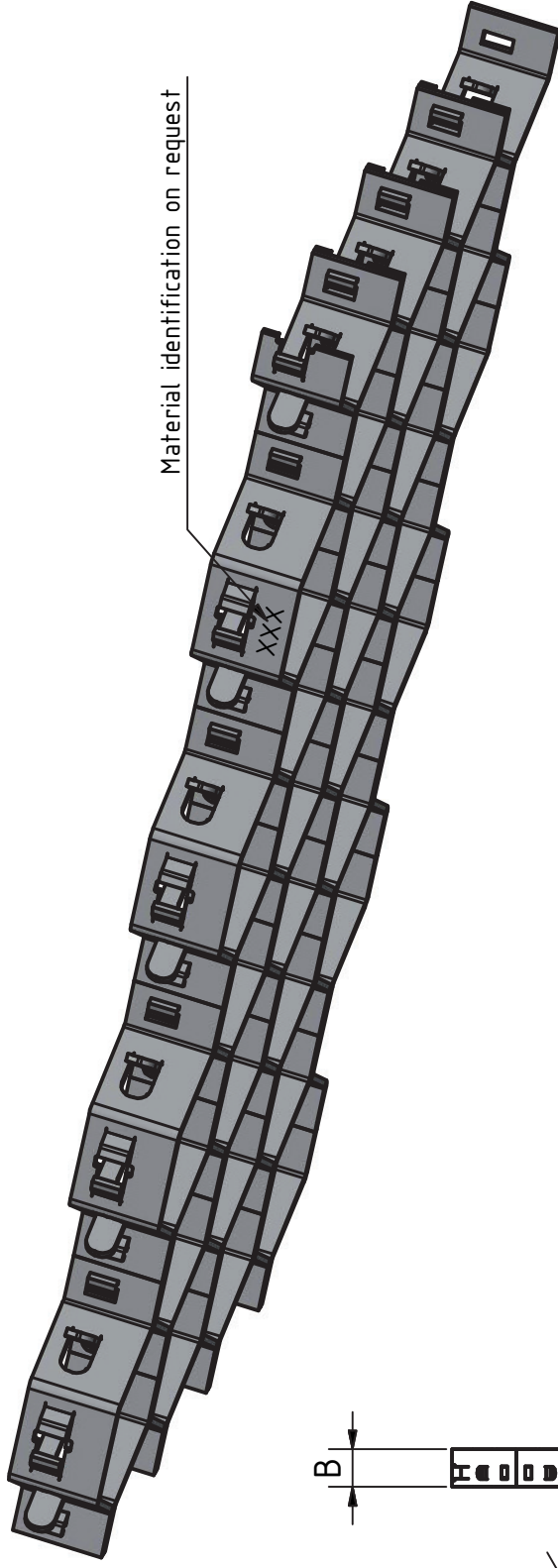
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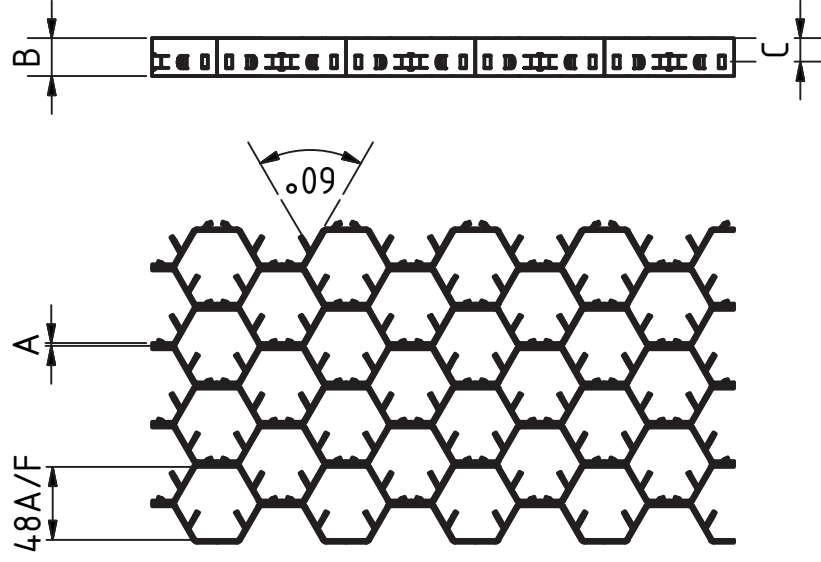


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Drawing reference customer:		Edit: 28.05.2018	KH	H15 US HexMetal	
Commission customer:		Appr.: 28.05.2018	AM	Special bonding hole type	
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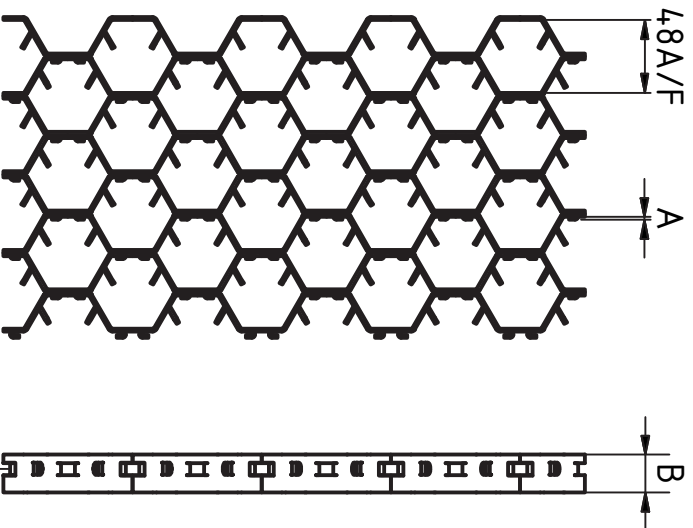
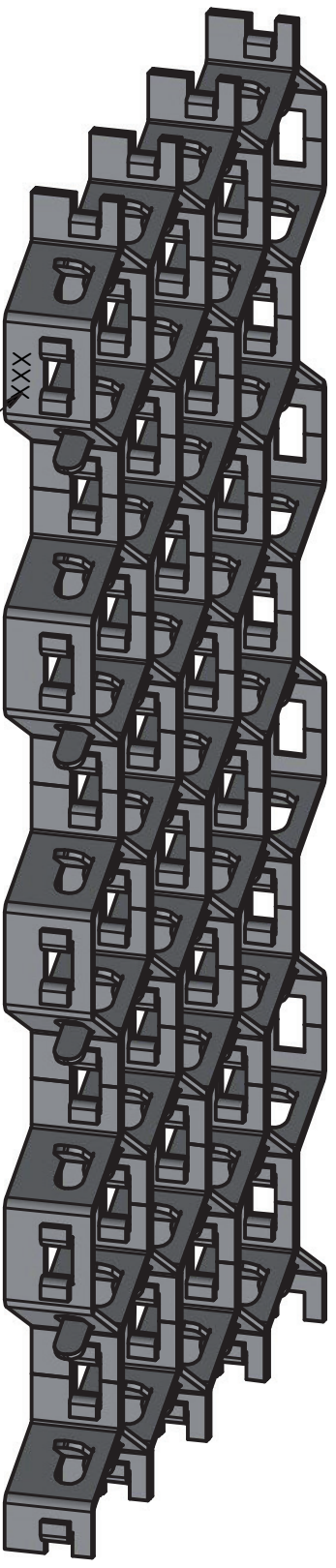


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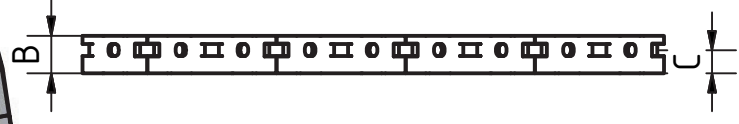
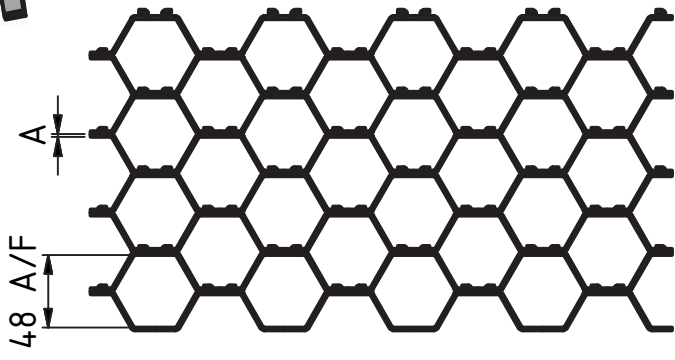
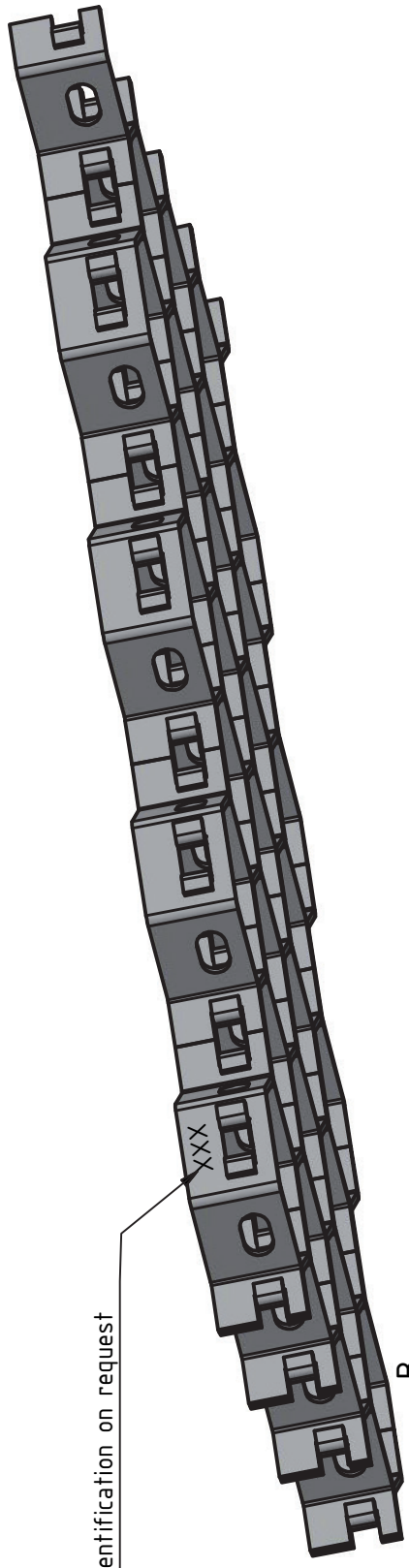
Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration.			Weight in kg: -	
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Commission customer:	Scale:	general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302	Format
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Urheberrechtsschutzvermerk siehe DIN 34				



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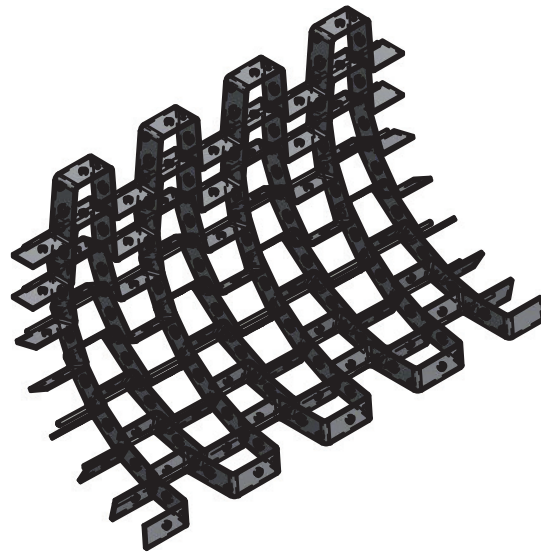
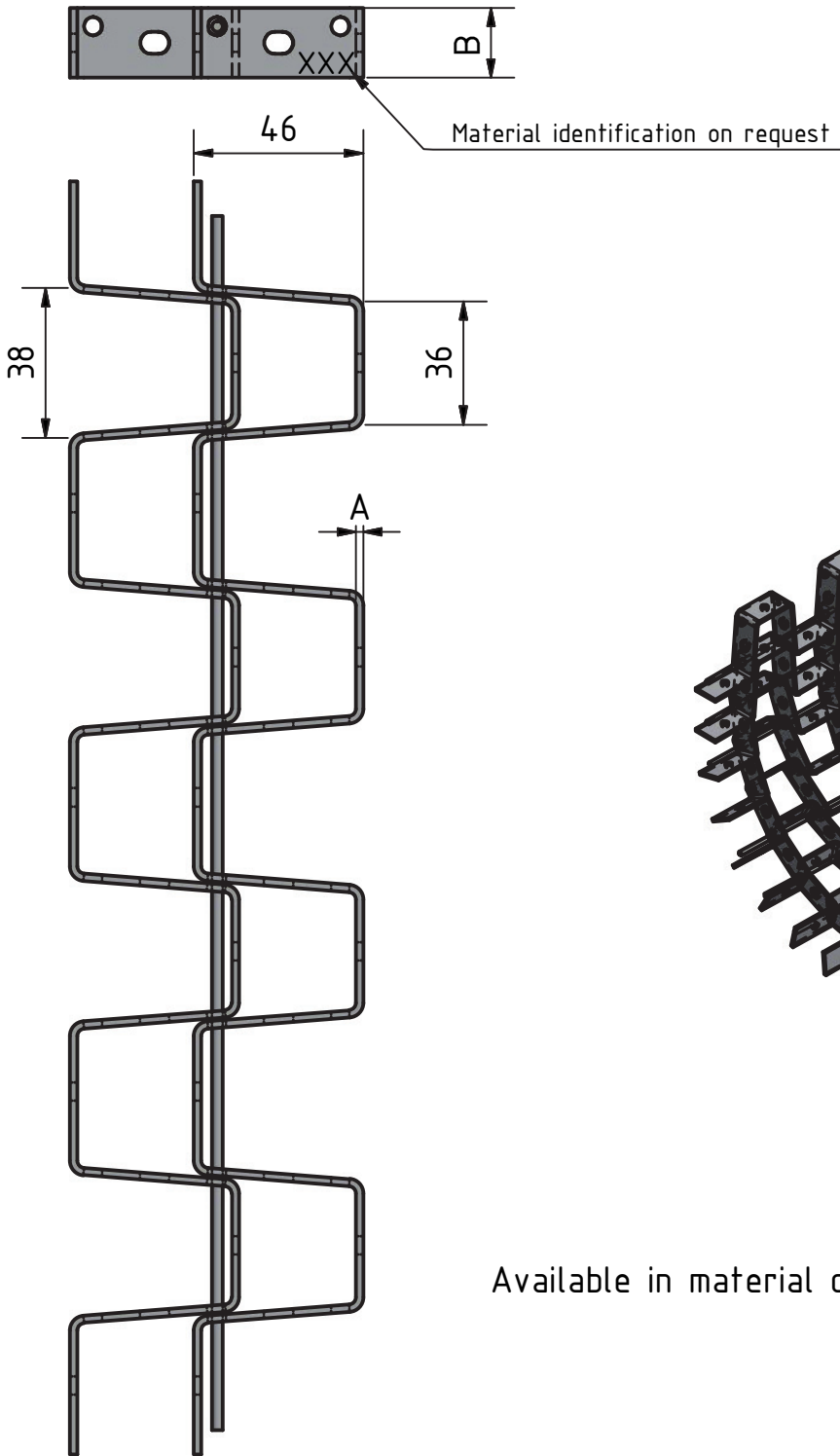
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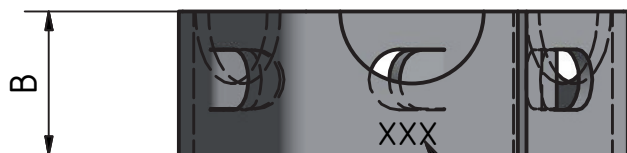
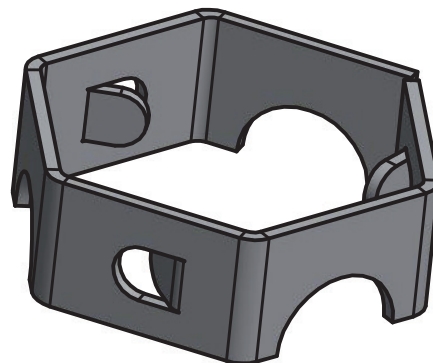
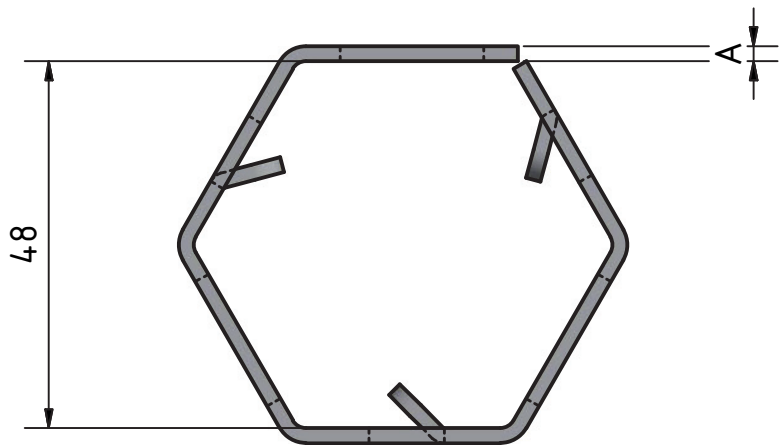
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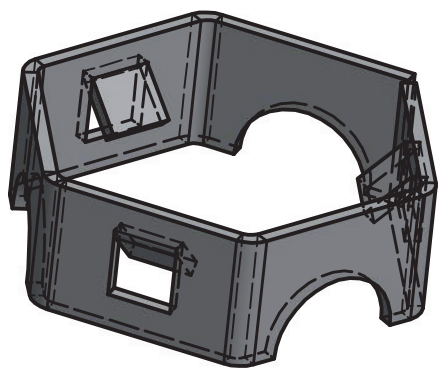
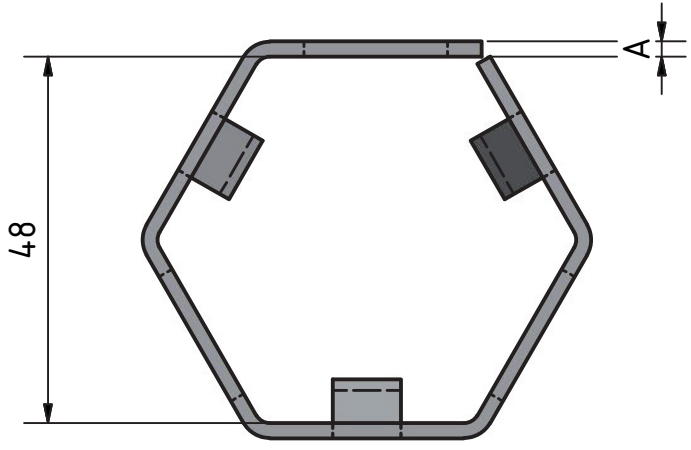


Material identification on request

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Commission customer:		Scale:		Item: H100 HexCell	
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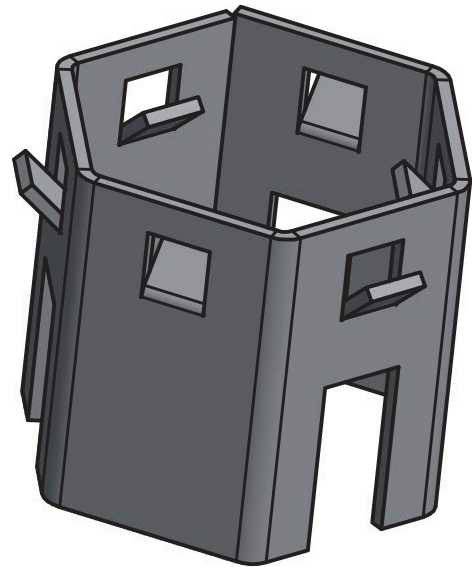
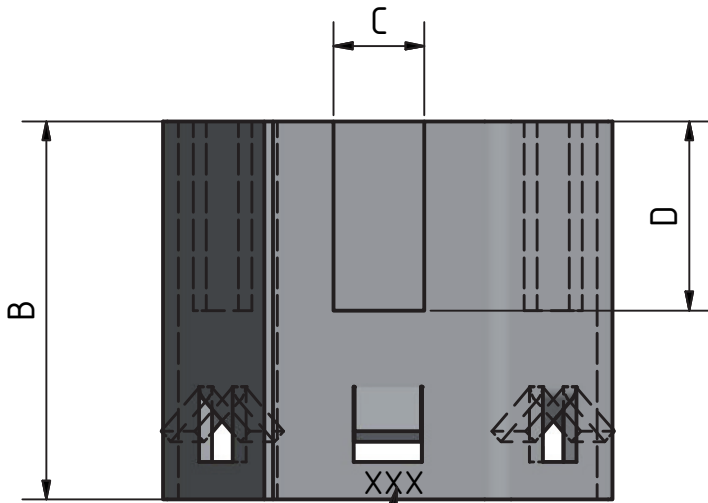
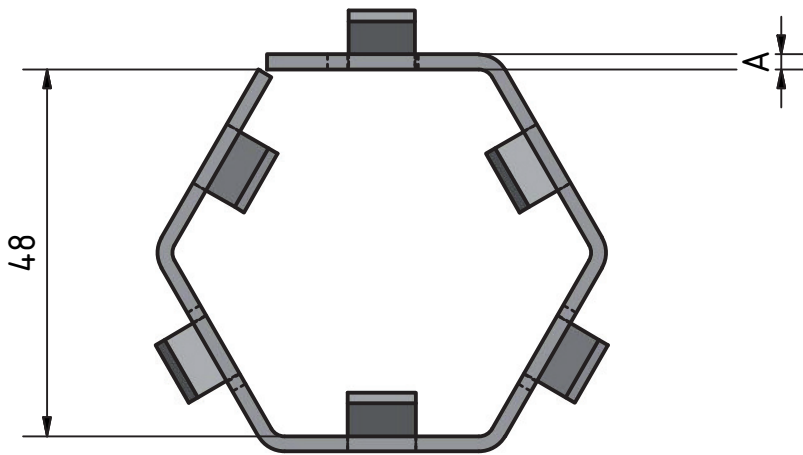


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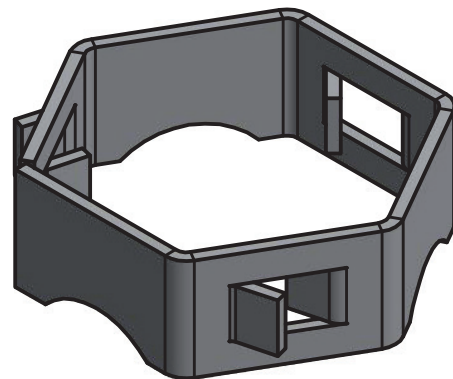
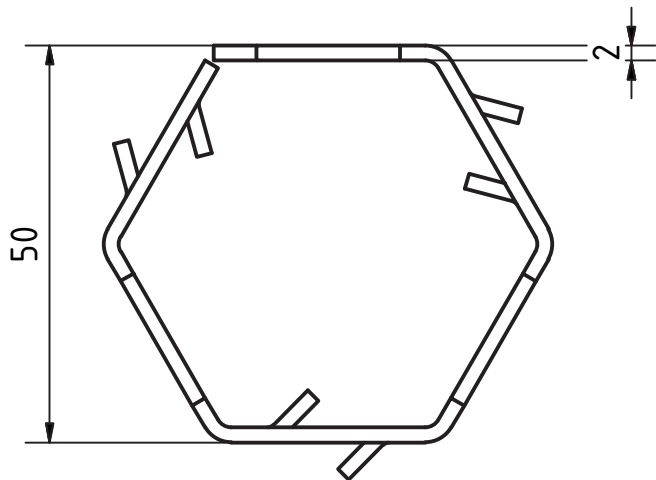


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Urheberschutzvermerk siehe DIN 34					

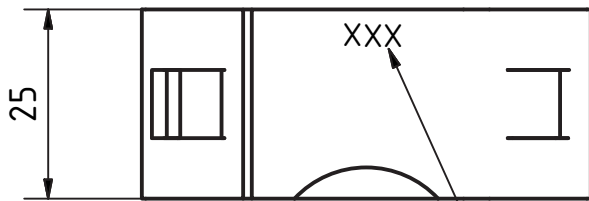
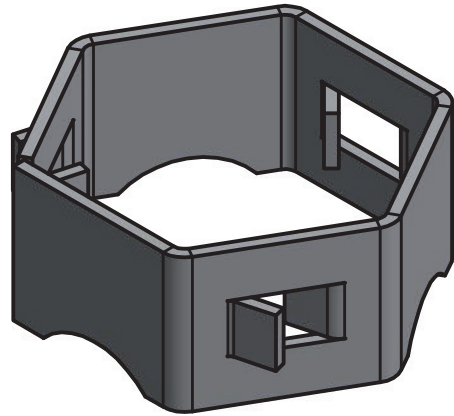
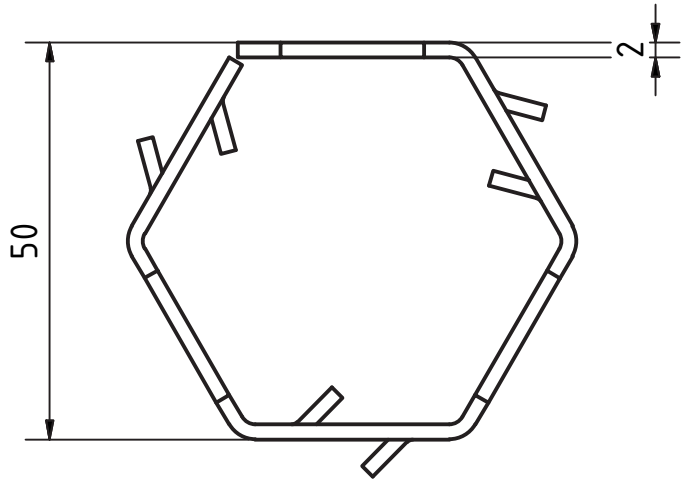


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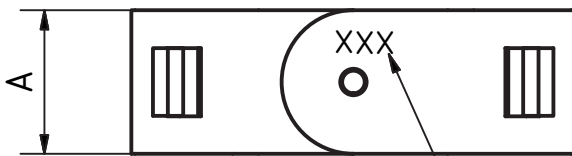
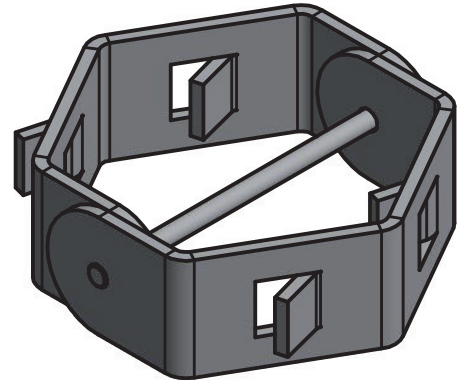
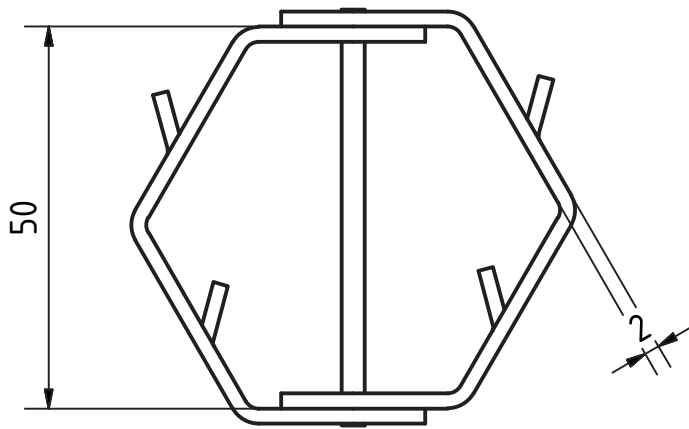


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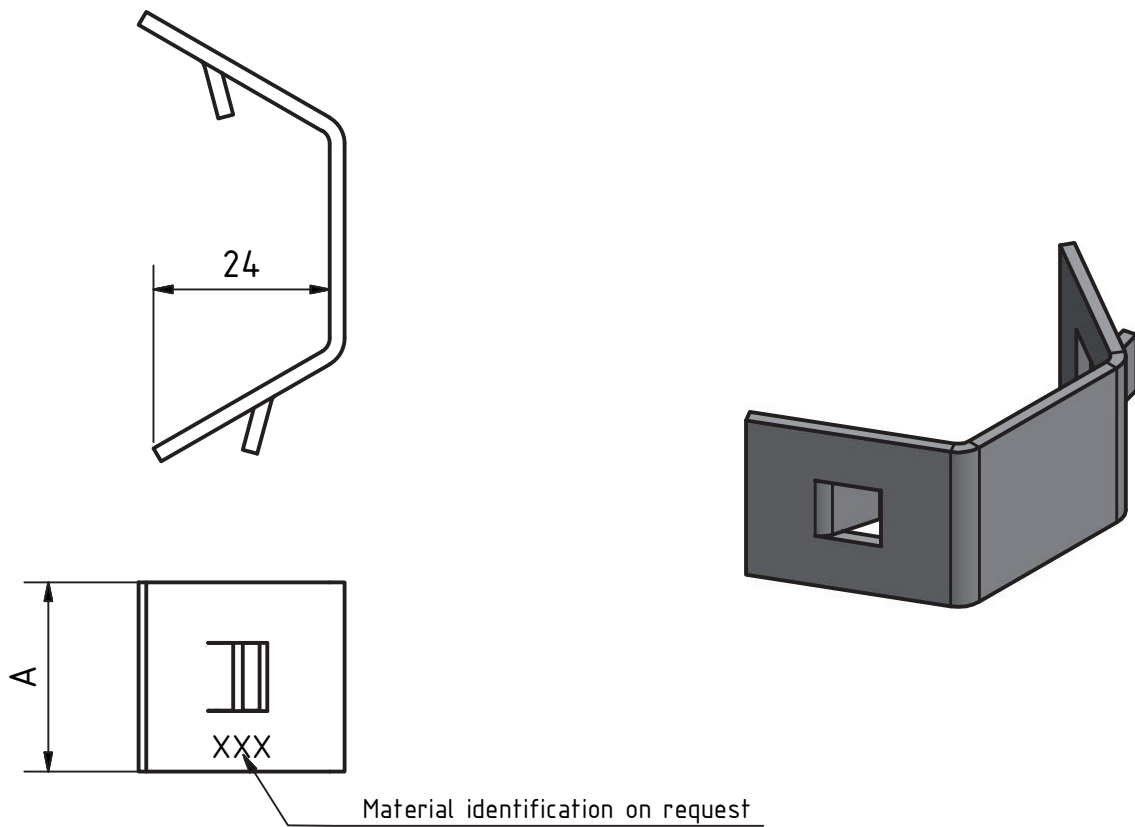


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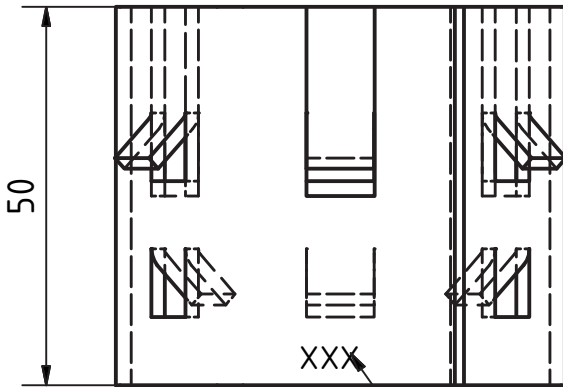
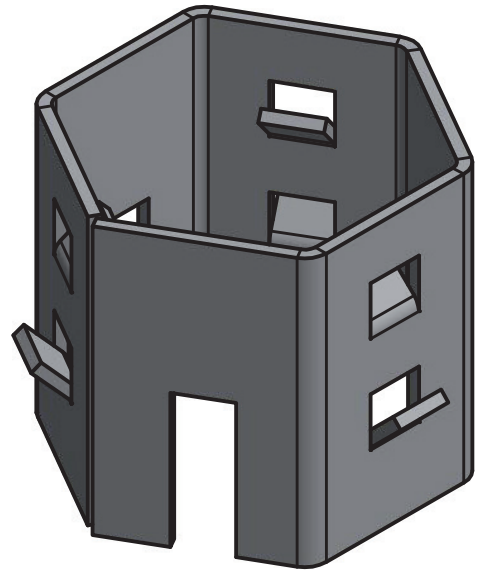
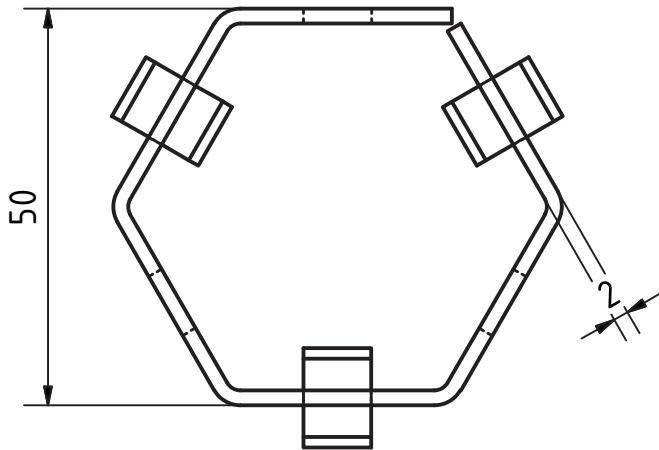
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Commission customer:	general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302	Format		
Urheberschutzvermerk siehe DIN 34					



Available in material quality 410s, 304H, 309 and 310s.

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Qty.:	
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Drawing reference customer:		Appr.	28.05.2018	AM	Half Hex Cell HexCell
Commission customer:		Scale:	28.05.2018	Format	
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Urheberschutzvermerk siehe DIN 34					

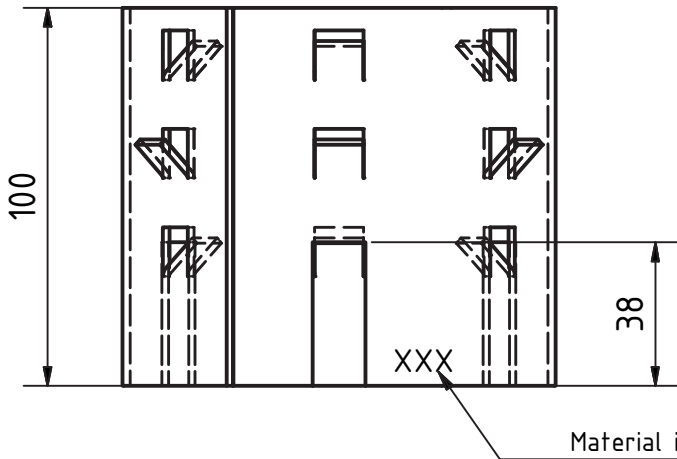
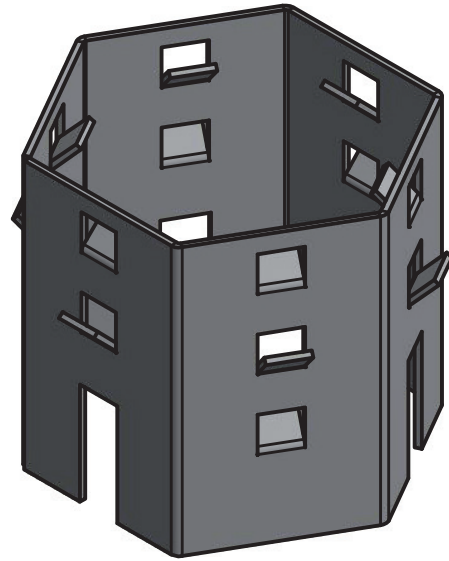
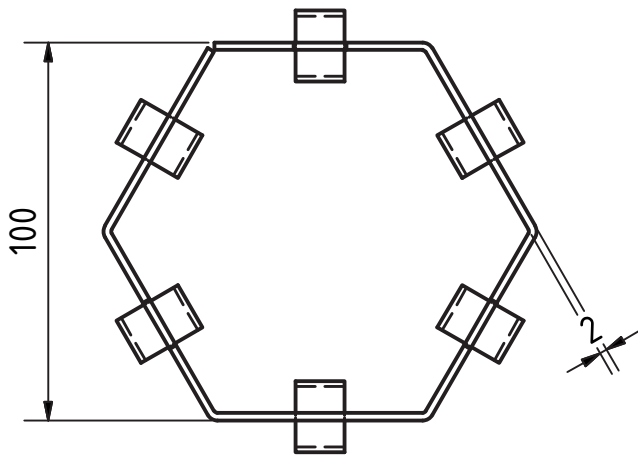


Material identification on request

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This drawing was created with CAD. Changes can only be made with CAD	Edit	Date	Name	Item: Figure 5 HexCell 50 mm	
	Appr.	28.05.2018	KH		
Drawing reference customer:	Scale:	28.05.2018	AM		
Commission customer:	general tolerance	surface roughness Ra	Format	Drawing No.: 5018208	
	ISO 2768 mK	DIN ISO 1302			
				Urheberschutzvermerk siehe DIN 34	

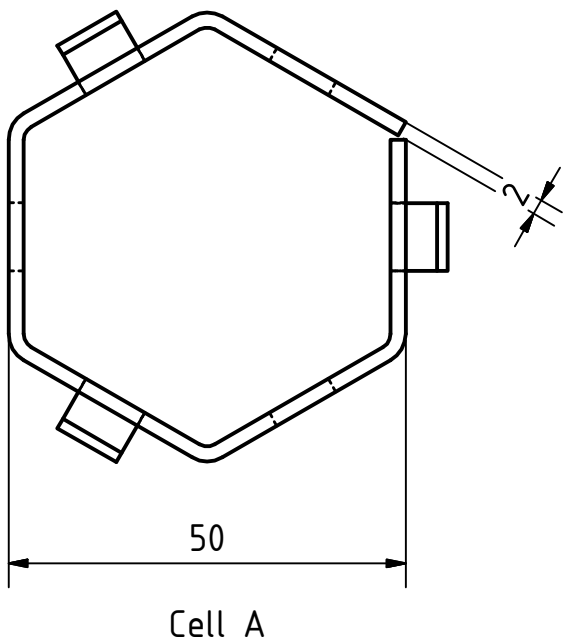
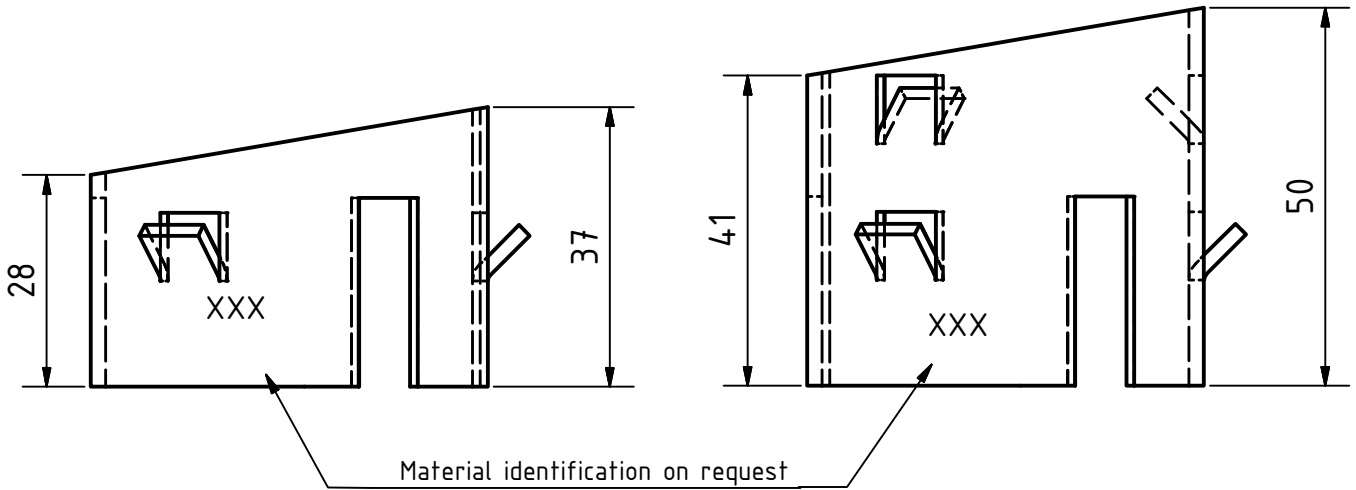


Material identification on request

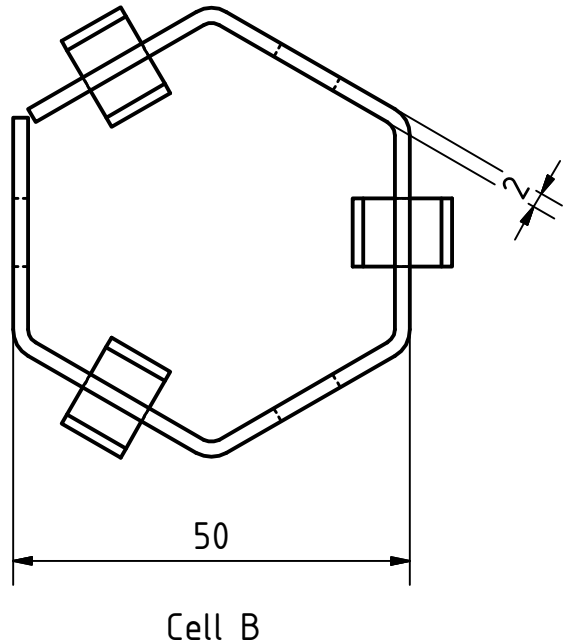
Available in material quality 410s, 304H, 309 and 310s.

Qty.:	
Material:	

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This drawing was created with CAD. Changes can only be made with CAD	Edit	28.05.2018	Name		Item: Figure 6 HexCell 100 mm	
	Appr.	28.05.2018	AM			
Drawing reference customer:	Scale: 28.05.2018		Format			
Commission customer:	general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302				
Urheberschutzvermerk siehe DIN 34						




Qty.:	
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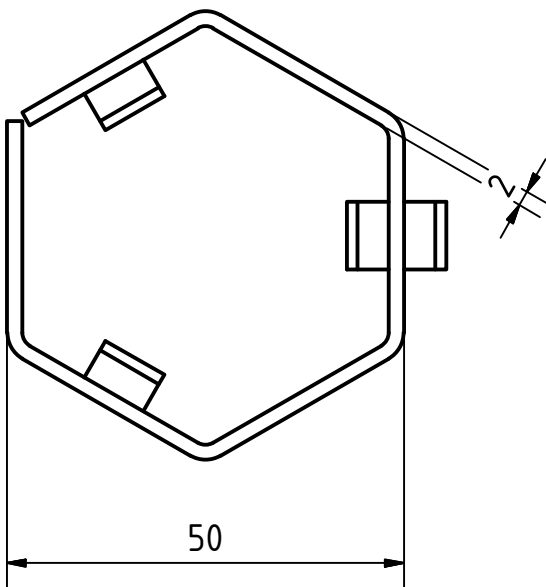
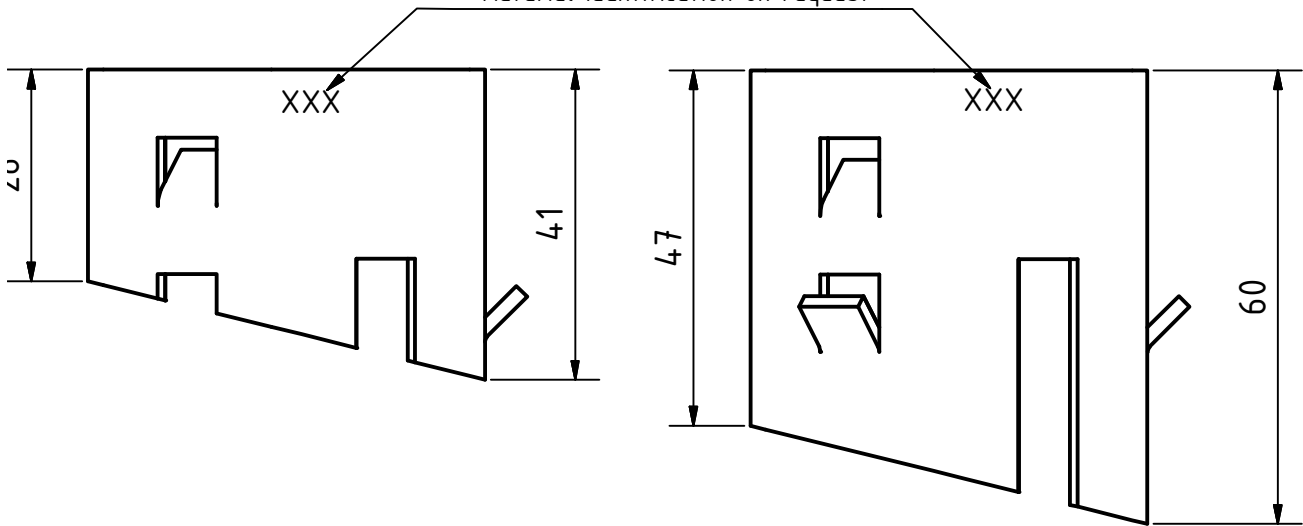


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Available in material quality 410s, 304H, 309 and 310s.

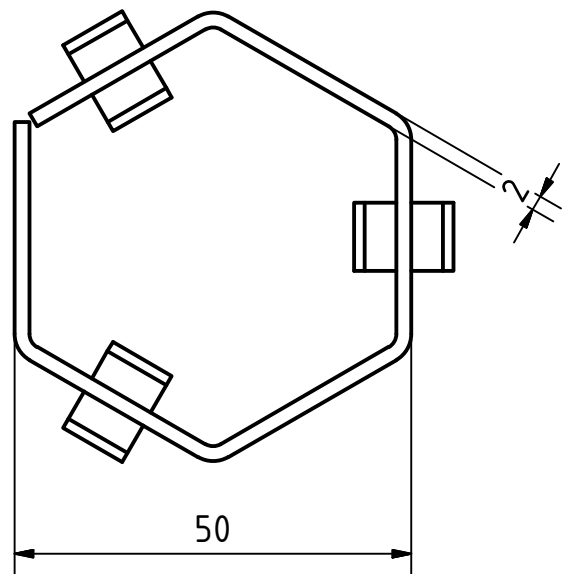
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Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration				25 to 50 mm transitions	
This drawing was created with CAD. Changes can only be made with CAD		Edit	Date	Name	Item: Figure 8 Top tapered HexCells
Drawing reference customer:		Appr.	28.05.2018	KH	
		Scale:	28.05.2018	AM	
Commission customer:		general tolerance	surface roughness Ra	Format	Drawing No.:
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Urheberschutzvermerk siehe DIN 34					

Material identification on request



Cell C


Qty.:	
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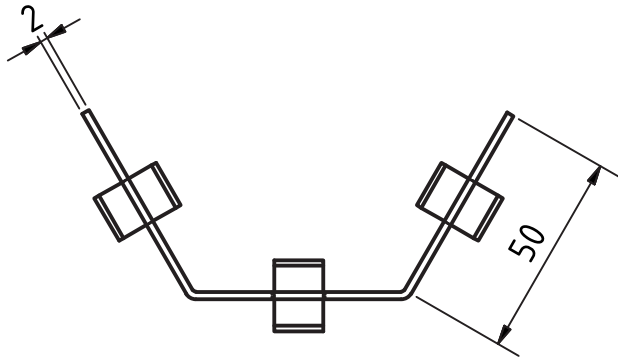
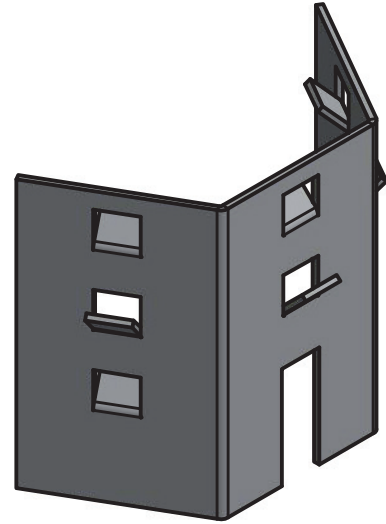
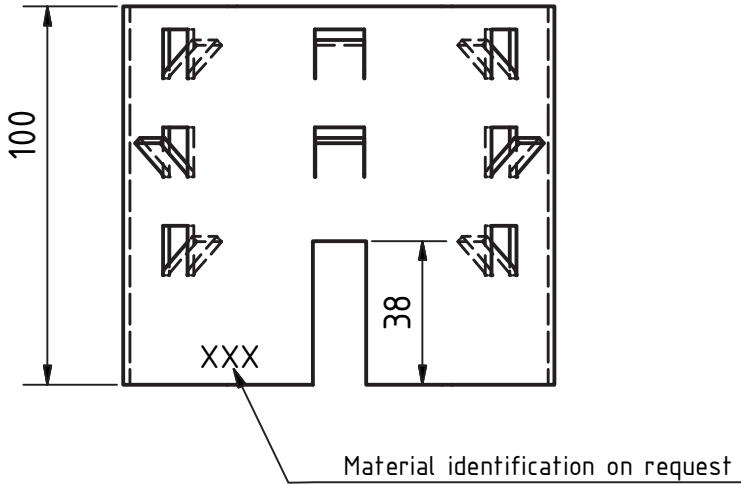


Cell D

Qty.:	
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Available in material quality 410s, 304H, 309 and 310s.

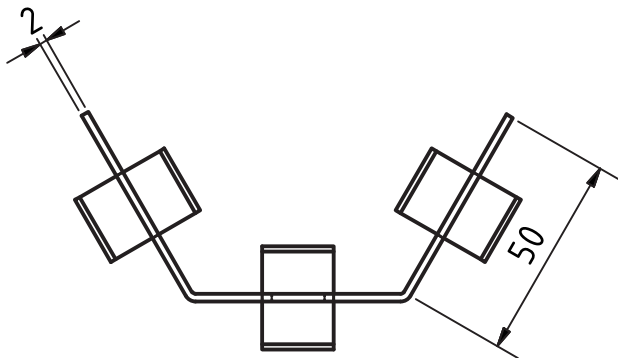
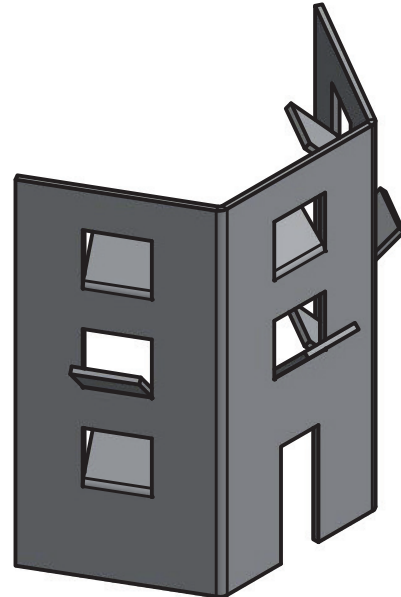
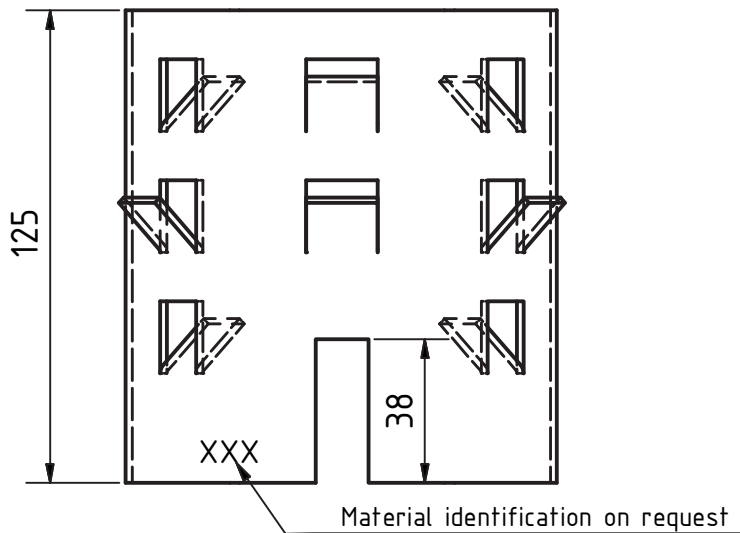
				Weight in kg:	-
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This drawing was created with CAD. Changes can only be made with CAD		Edit	28.05.2018	Name	KH
Drawing reference customer:		Appr.	28.05.2018	AM	
Commission customer:		Scale: 28.05.2018		Item: Figure 10	
		general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302	Format	Drawing No.: 5018211
Urheberschutzvermerk siehe DIN 34					



Available in material quality 410s, 304H, 309 and 310s.


Qty.:	
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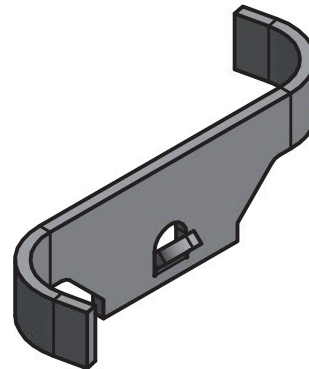
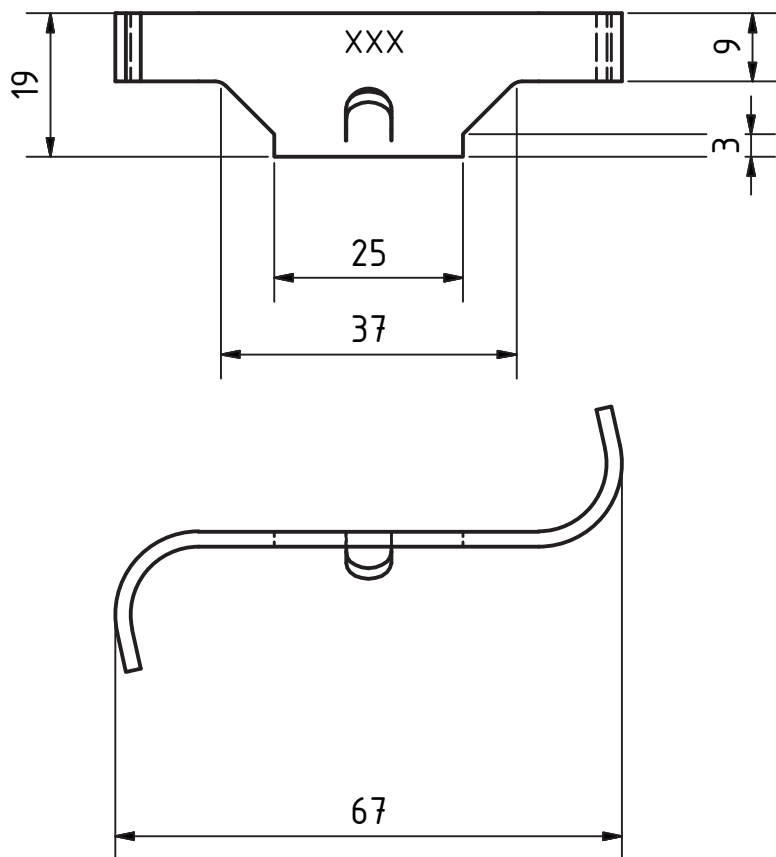
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This drawing was created with CAD. Changes can only be made with CAD	Edit	Date	Name	Item: Figure 11 Half Hex Cell 100 mm	
	Appr.	28.05.2018	KH		
Drawing reference customer:	Scale:	28.05.2018	AM		
Commission customer:	general tolerance	surface roughness Ra	Format	Drawing No.: 5018212	
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				Urheberschutzvermerk siehe DIN 34	




Available in material quality 410s, 304H, 309 and 310s.

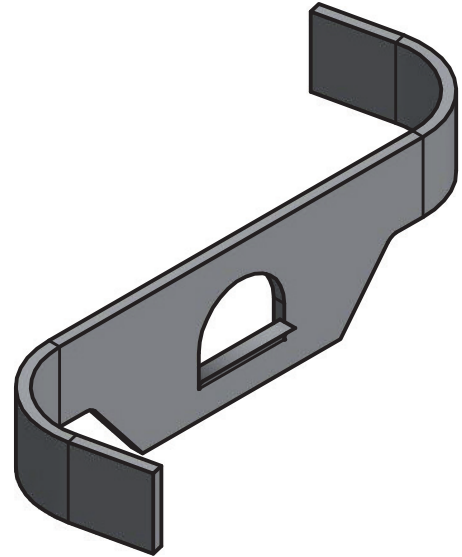
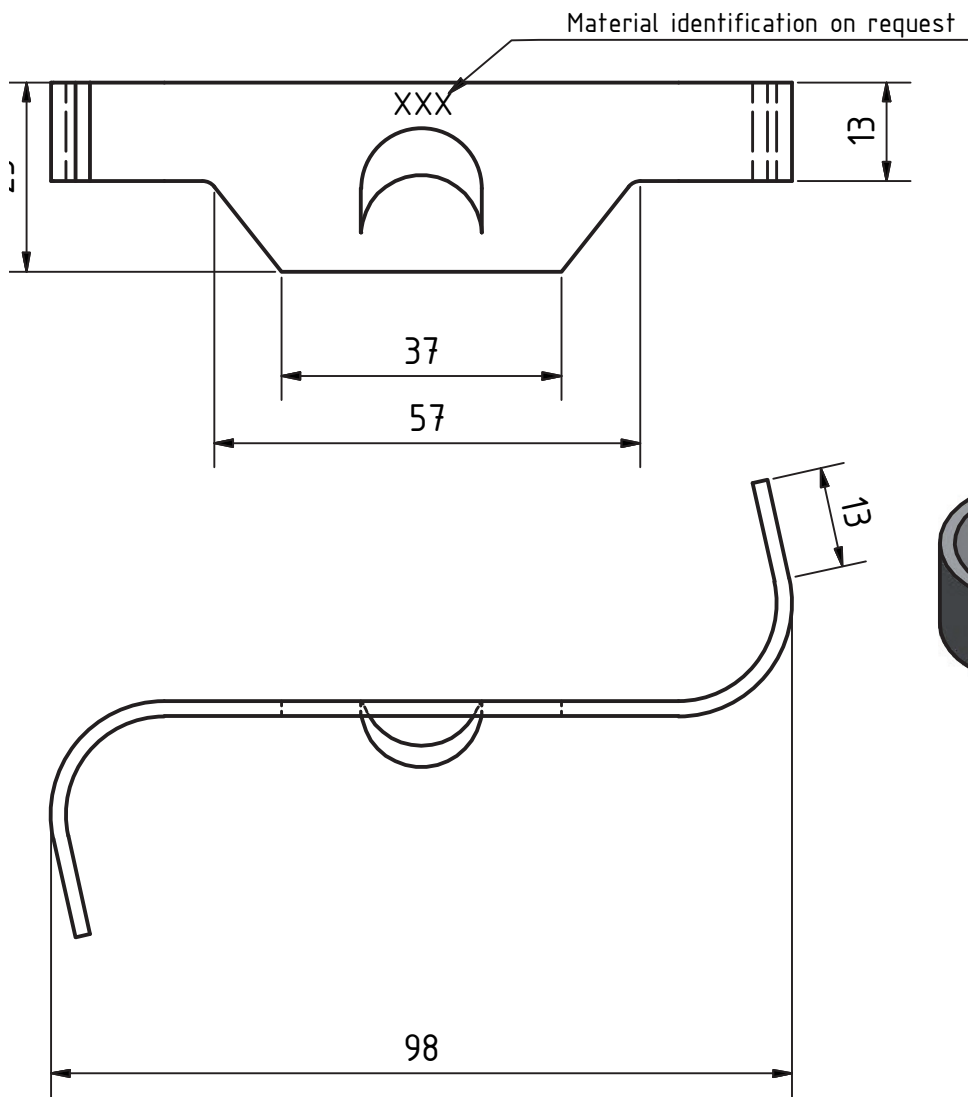
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This drawing was created with CAD. Changes can only be made with CAD		Edit	28.05.2018	KH
Drawing reference customer:		Appr.	28.05.2018	AM
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Urheberschutzvermerk siehe DIN 34				




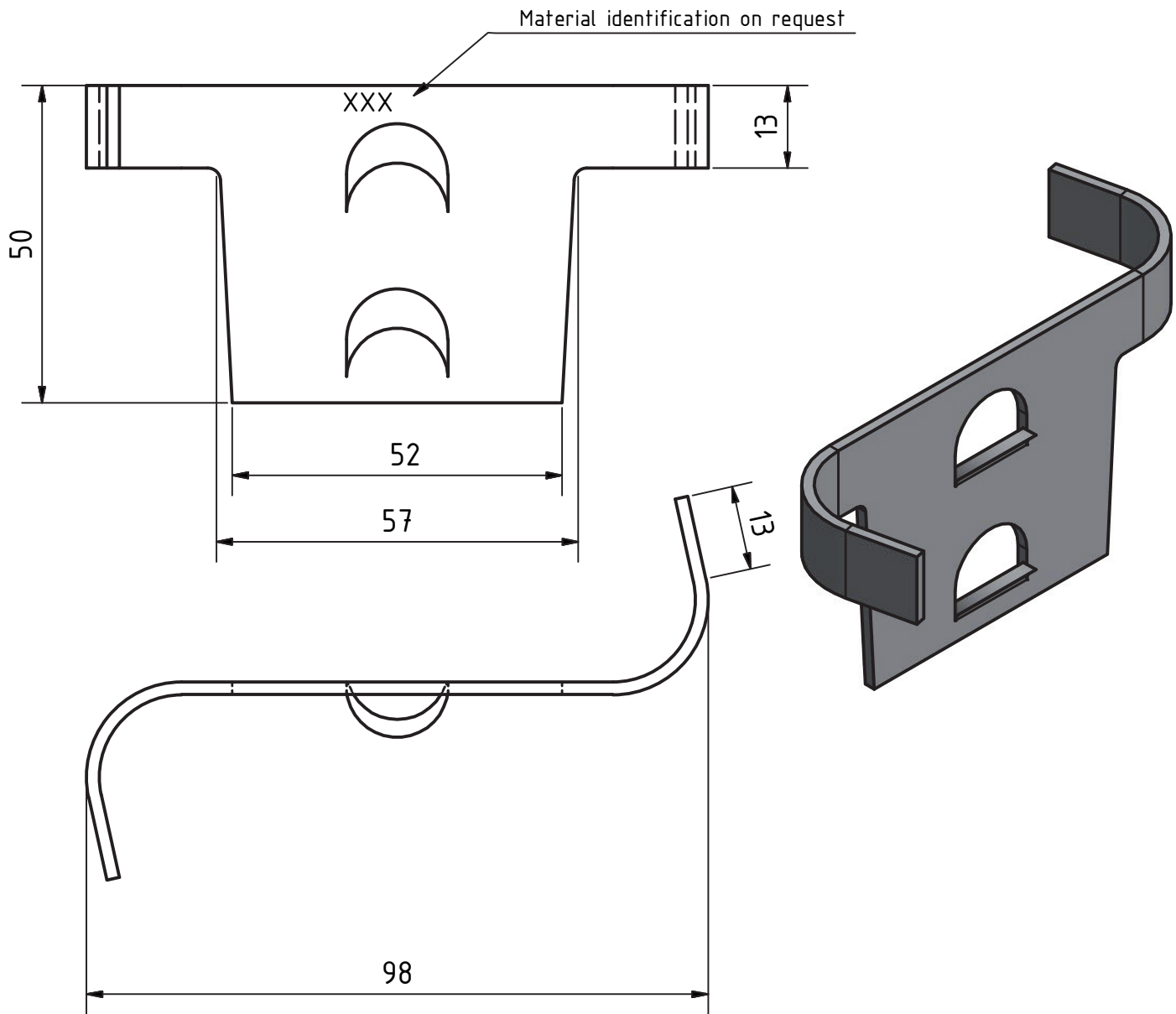
Available in material quality 410s, 304H, 309 and 310s.

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This drawing was created with CAD. Changes can only be made with CAD		Date	Name	Item: Figure 13 S - Bar 19 mm
Drawing reference customer:		Edit 28.05.2018	KH	
Commission customer:		Appr. 28.05.2018	AM	
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Urheberschutzvermerk siehe DIN 34				




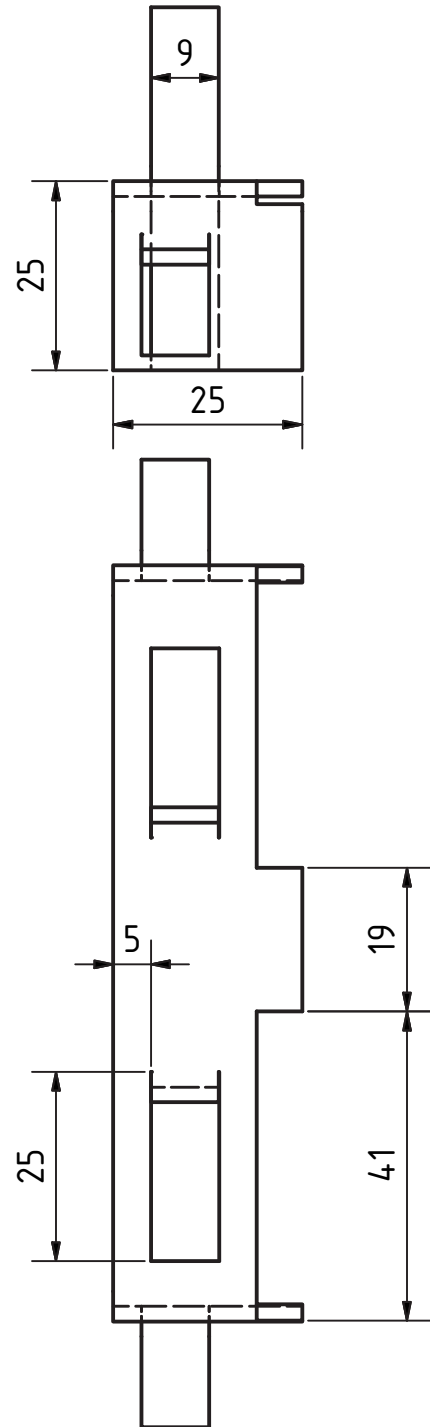
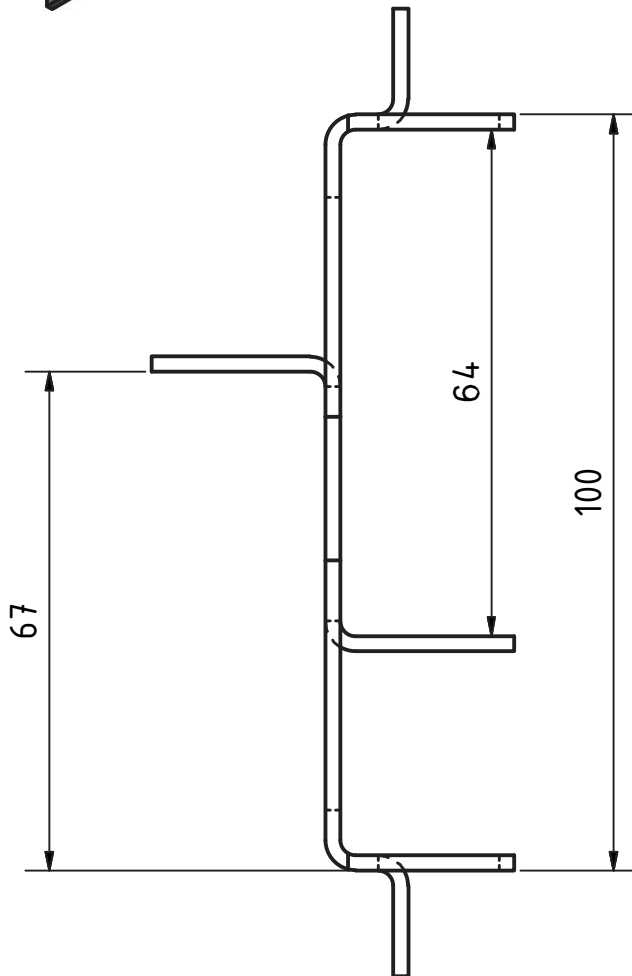
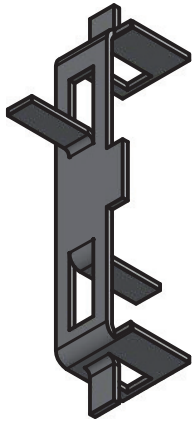
Available in material quality 410s, 304H, 309 and 310s.

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This drawing was created with CAD. Changes can only be made with CAD		Edit 28.05.2018	Date 28.05.2018	Name KH	Item: Figure 14 S - Bar 25 mm
Drawing reference customer:		Appr. 28.05.2018	AM		
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Commission customer:		general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302	Format	Drawing No.: 5018215
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Available in material quality 410s, 304H, 309 and 310s.

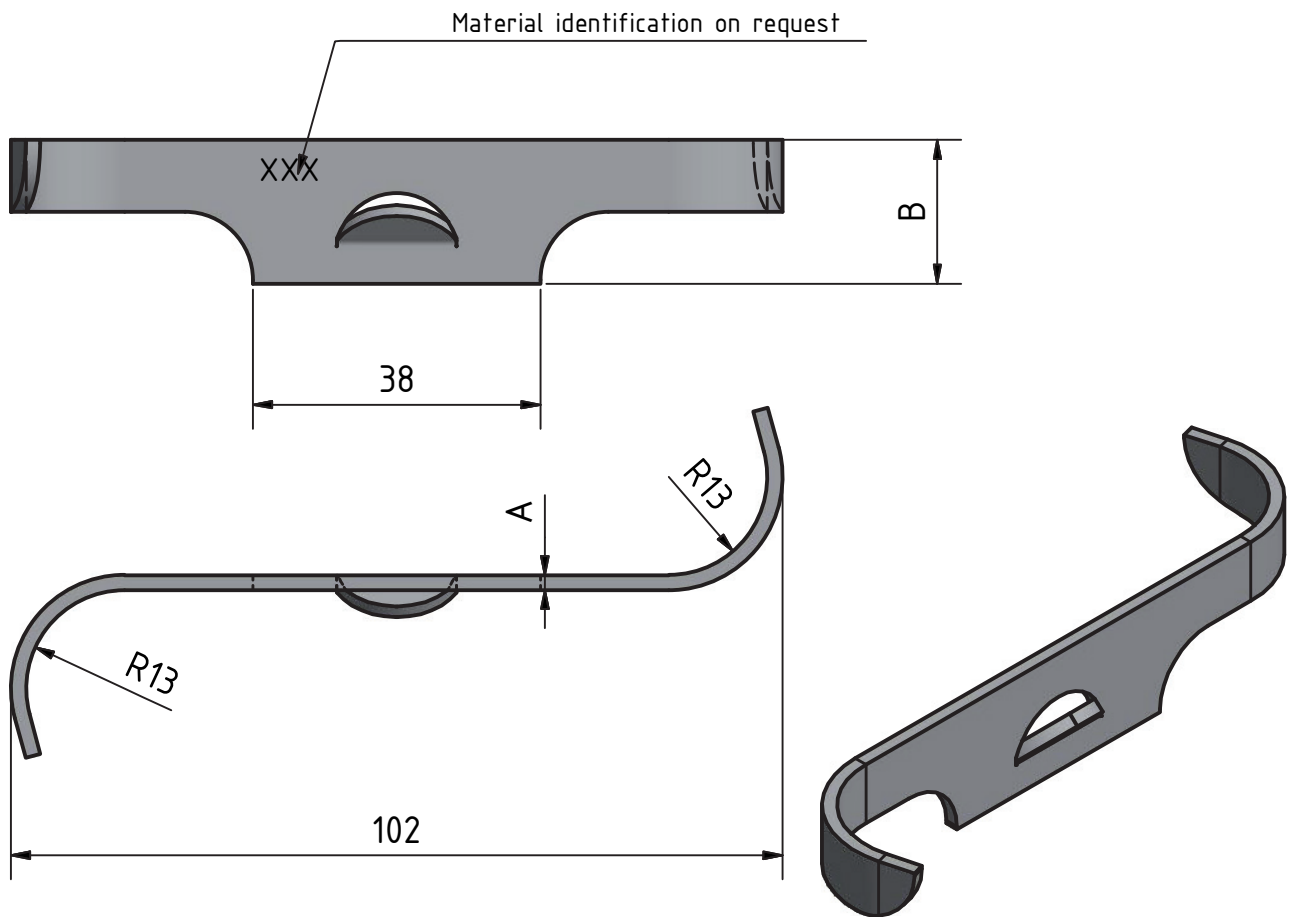
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Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration				
This drawing was created with CAD. Changes can only be made with CAD		Date	Name	Item: Figure 16 S - Bar 50 mm
Drawing reference customer:		Edit 28.05.2018	KH	
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Commission customer:		Scale: 28.05.2018		Drawing No.: 5018216
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Urheberschutzvermerk siehe DIN 34				



Available in material quality 410s, 304H, 309 and 310s.


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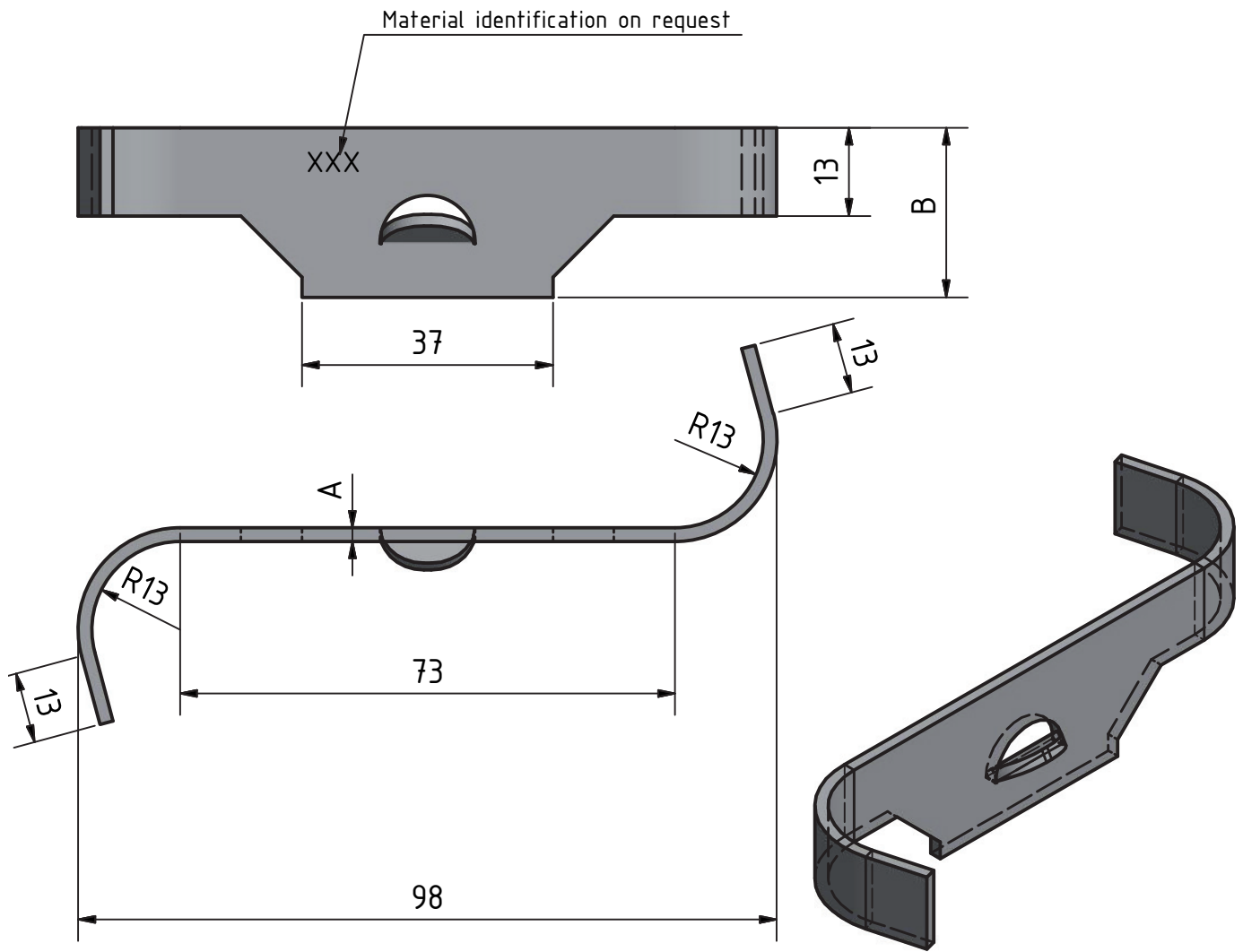
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This drawing was created with CAD. Changes can only be made with CAD	Edit	Date	Name	Item: Figure 17 Curl anchor 25 mm
	Appr.	28.05.2018	KH	
Drawing reference customer:	Scale:	28.05.2018	AM	
Commission customer:	general tolerance	surface roughness Ra	Format	Drawing No.: 5018217
	ISO 2768 mK	DIN ISO 1302		
				Urheberschutzvermerk siehe DIN 34



Available in material quality 410s, 304H, 309 and 310s.


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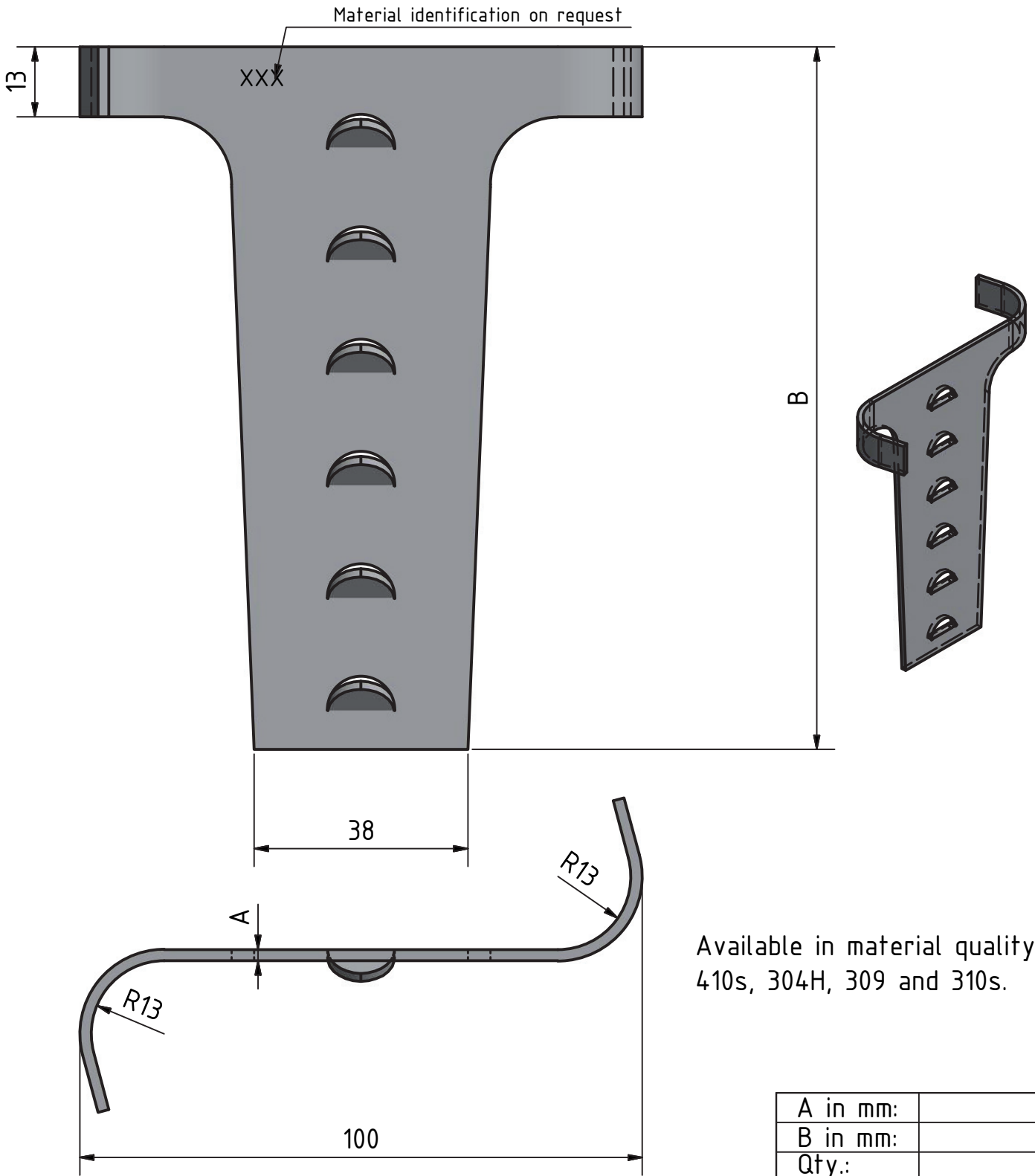
Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration				 STROMBERG <small>Refractory Anchorage Systems</small>		Weight in kg: -	
This drawing was created with CAD. Changes can only be made with CAD	Edit	Date	Name	Item: H120 A S-Bar			
	Appr.	28.05.2018	KH				
Drawing reference customer:	Scale:	28.05.2018	AM				
Commission customer:	general tolerance	surface roughness Ra	Format	Drawing No.: 5018301			
	ISO 2768 mK	DIN ISO 1302					
							Urheberschutzvermerk siehe DIN 34



Available in material quality 410s, 304H, 309 and 310s.


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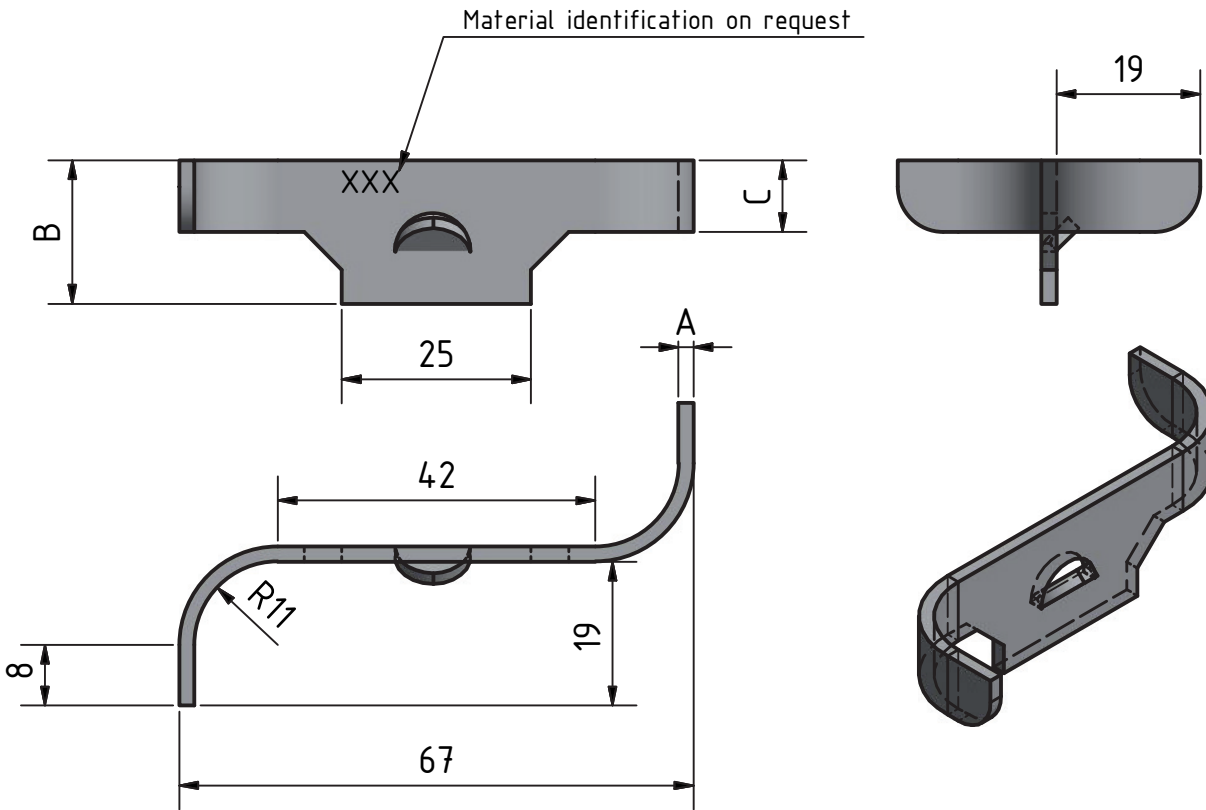
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Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration					
This drawing was created with CAD. Changes can only be made with CAD		Edit	28.05.2018	Name	KH
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Commission customer:		Scale:		Item:	
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				Drawing No.:	
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Urheberschutzvermerk siehe DIN 34					



Available in material quality 410s, 304H, 309 and 310s.


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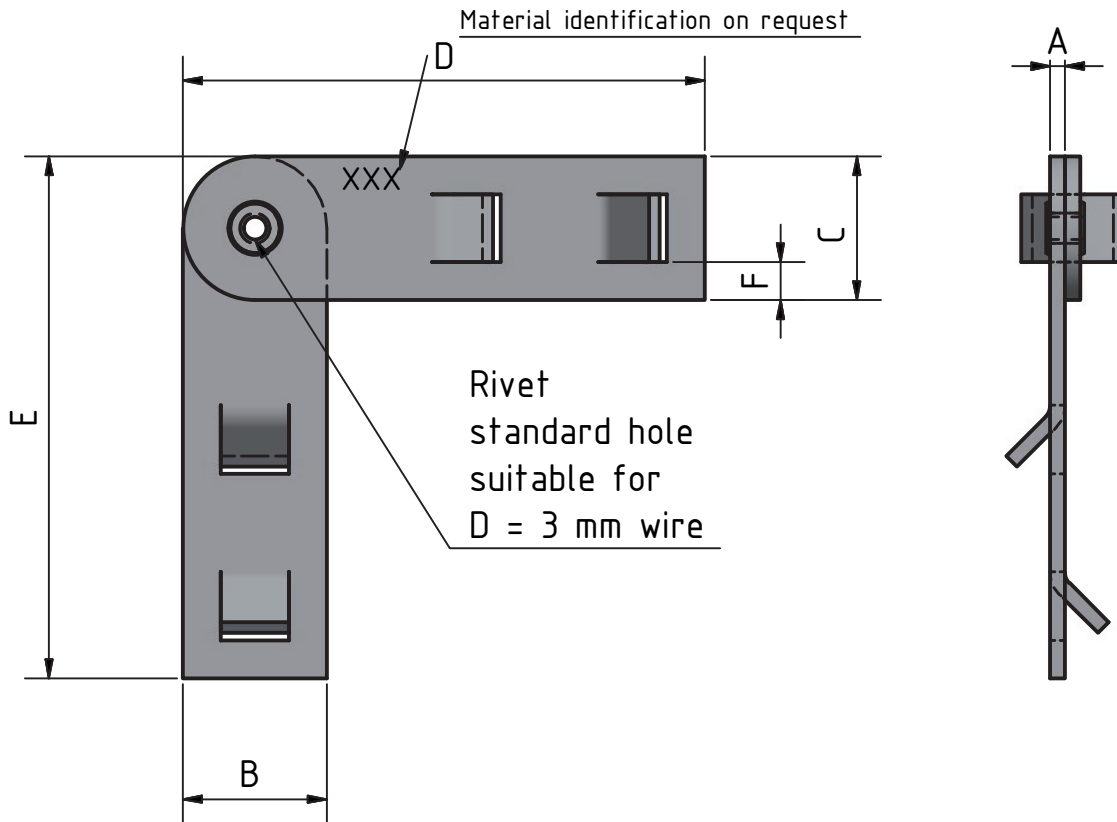
Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration				Weight in kg: -	
This drawing was created with CAD. Changes can only be made with CAD				Item: H122 A S-Bar > 25 mm	
		Edit	Date 28.05.2018		
Drawing reference customer:		Appr.	28.05.2018	AM	Drawing No.: 5018303
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Commission customer:		general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302	Format	Urheberschutzvermerk siehe DIN 34
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Available in material quality 410s, 304H, 309 and 310s.


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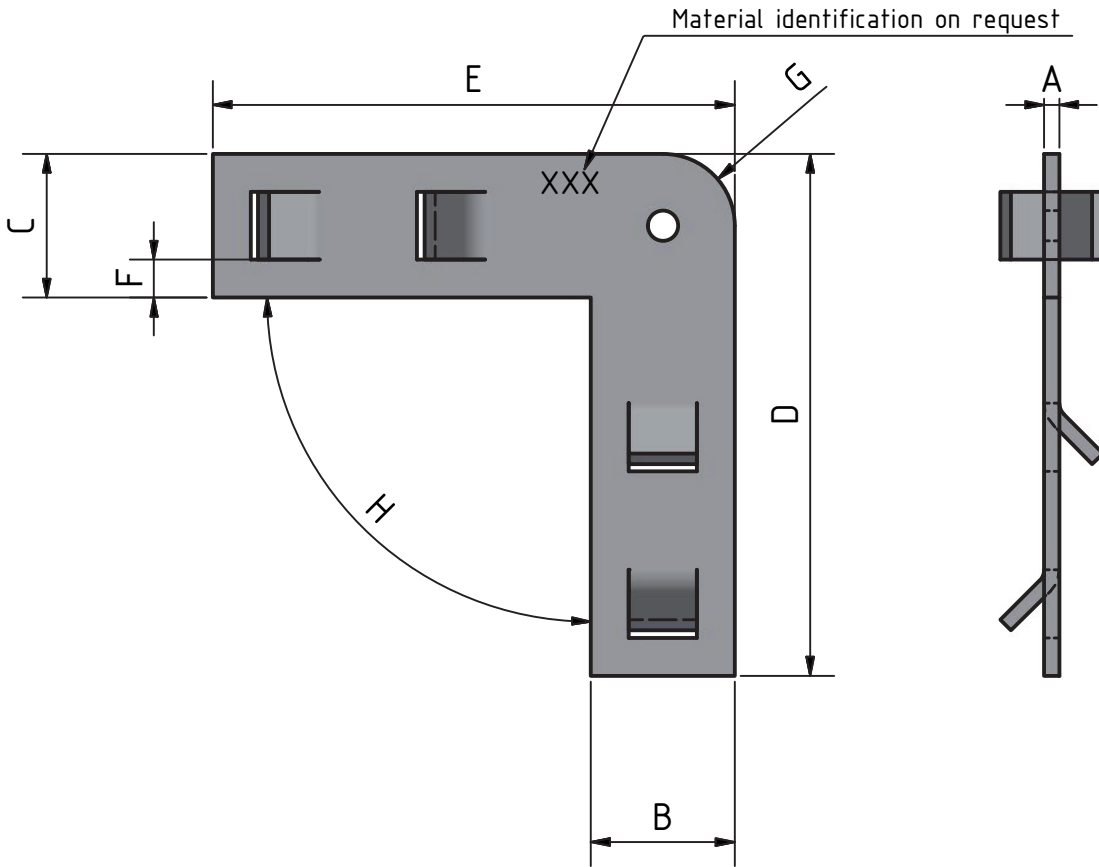
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Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration					
This drawing was created with CAD. Changes can only be made with CAD		Edit	28.05.2018	Name	KH
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Commission customer:		Scale:		Item:	
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				H127 A Mini S-Bar	
				Drawing No.: 5018304	
Urheberschutzvermerk siehe DIN 34					



Available in material quality 410s, 304H, 309 and 310s.


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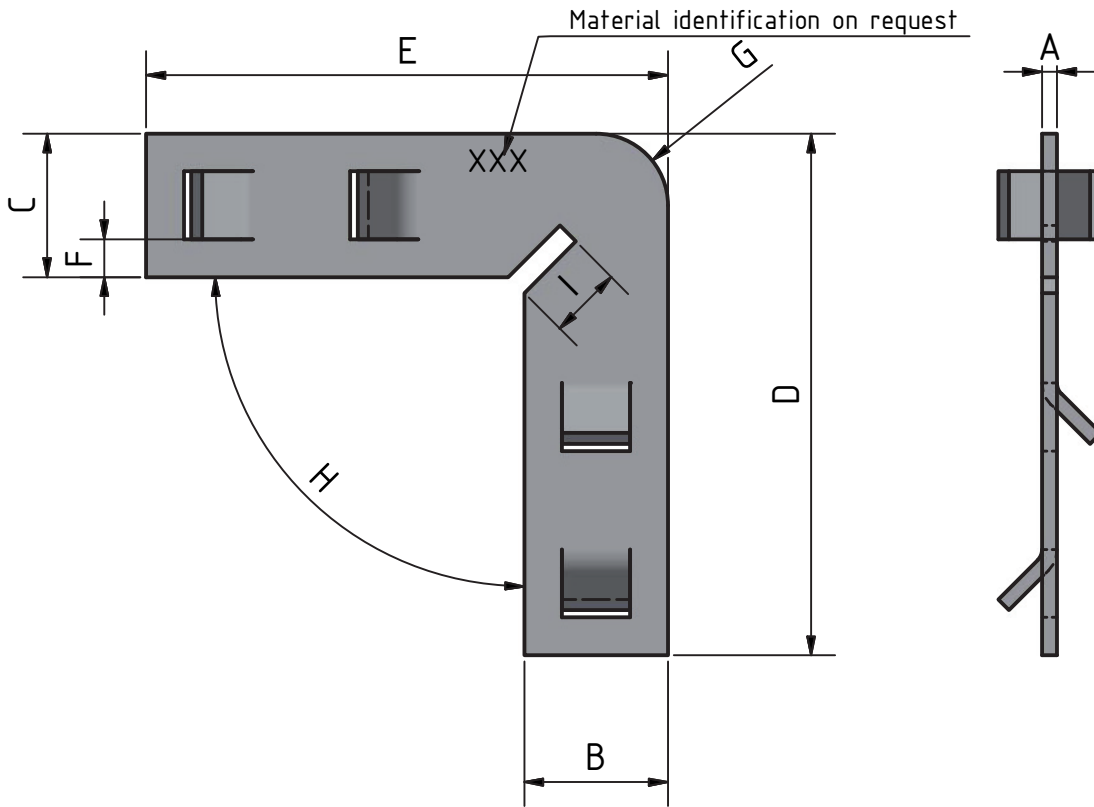
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Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration		 STROMBERG Refractory Anchorage Systems			
This drawing was created with CAD. Changes can only be made with CAD		Date Edit 28.05.2018	Name KH	Item: H204 A VCTAB	
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Commission customer:		Scale: general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302	Format	Drawing No.: 5018401
Urheberschutzvermerk siehe DIN 34					



Available in material quality 410s, 304H, 309 and 310s.


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This drawing was created with CAD. Changes can only be made with CAD		Edit	Date	Name	Item: H207 A CTAB Type A
Drawing reference customer:		Appr.	28.05.2018	KH	
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Urheberschutzvermerk siehe DIN 34					

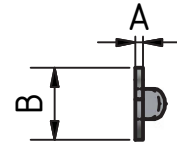
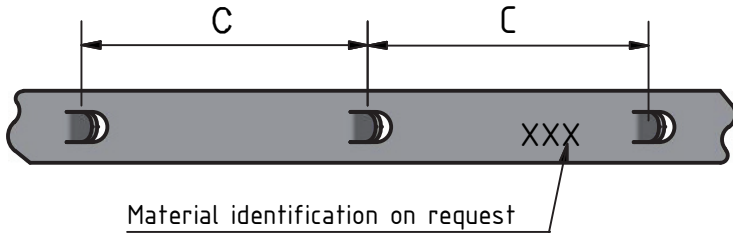


Available in material quality 410s, 304H, 309 and 310s.

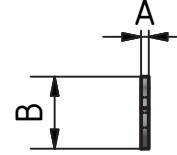
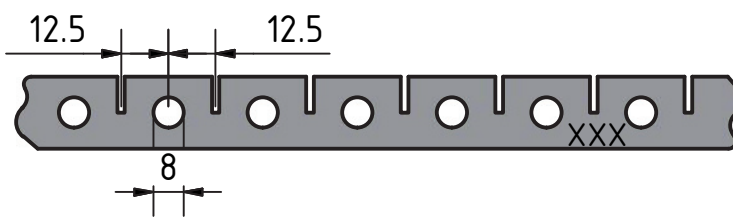
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This drawing was created with CAD. Changes can only be made with CAD				Item: H207 B CTAB Type B	
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Urheberschutzvermerk siehe DIN 34					

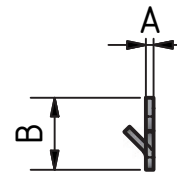
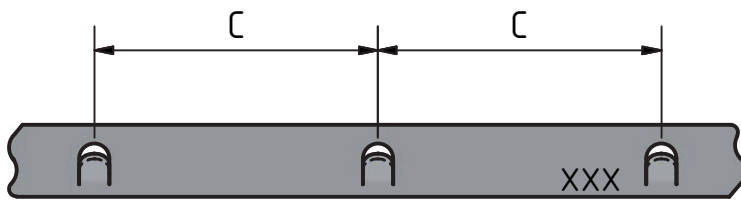
209 E



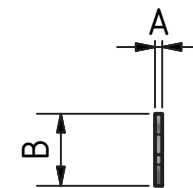
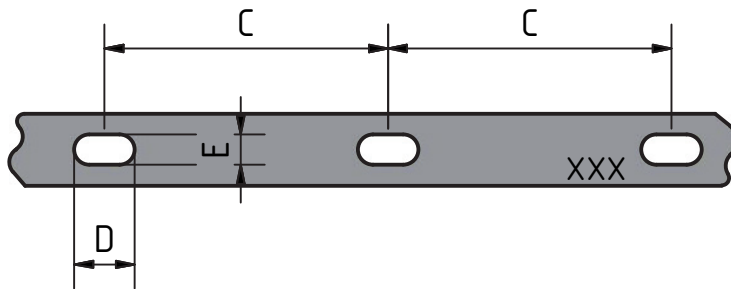
209 F



209 G



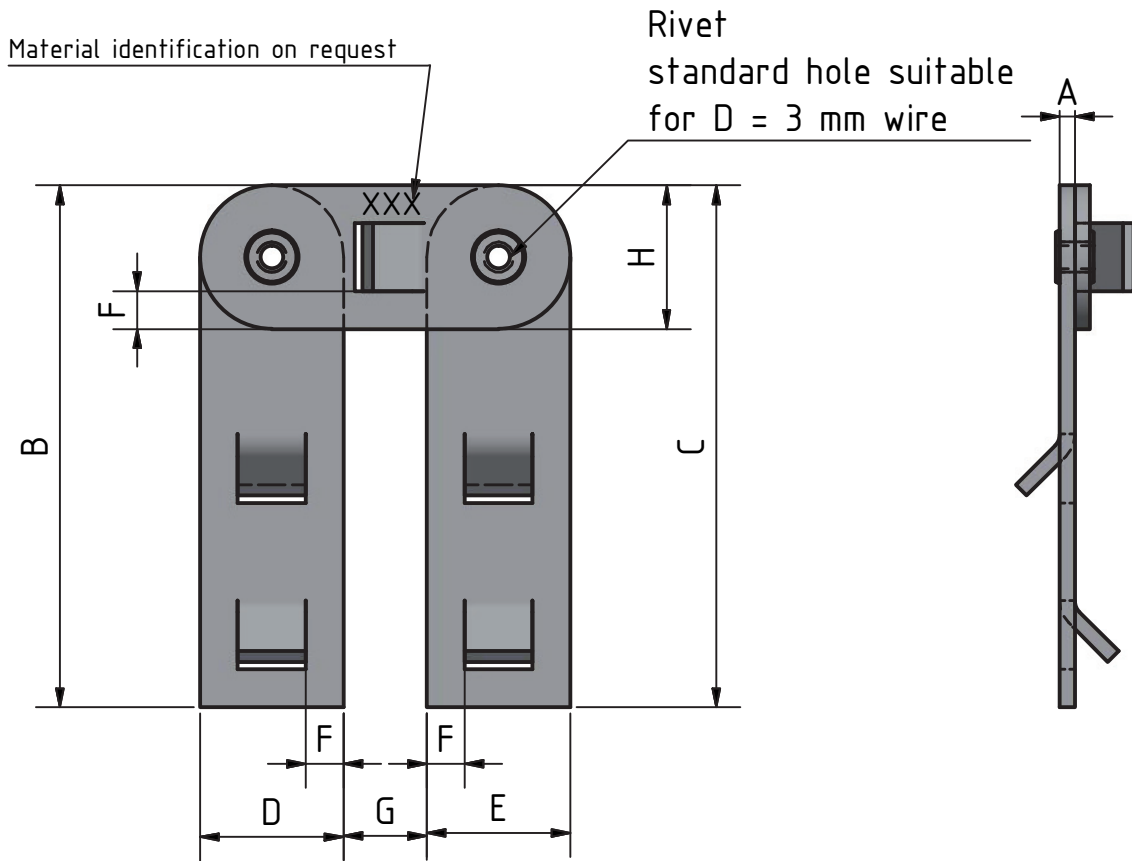
209 H



Available in material quality 410s, 304H, 309 and 310s.


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Qty.:	
Material:	

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<p>This drawing was created with CAD. Changes can only be made with CAD</p>				<p>Item: H209 E - H Binding strip</p>	
		<p>Edit</p>	<p>Date 28.05.2018</p>		
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		<p>Scale:</p>			
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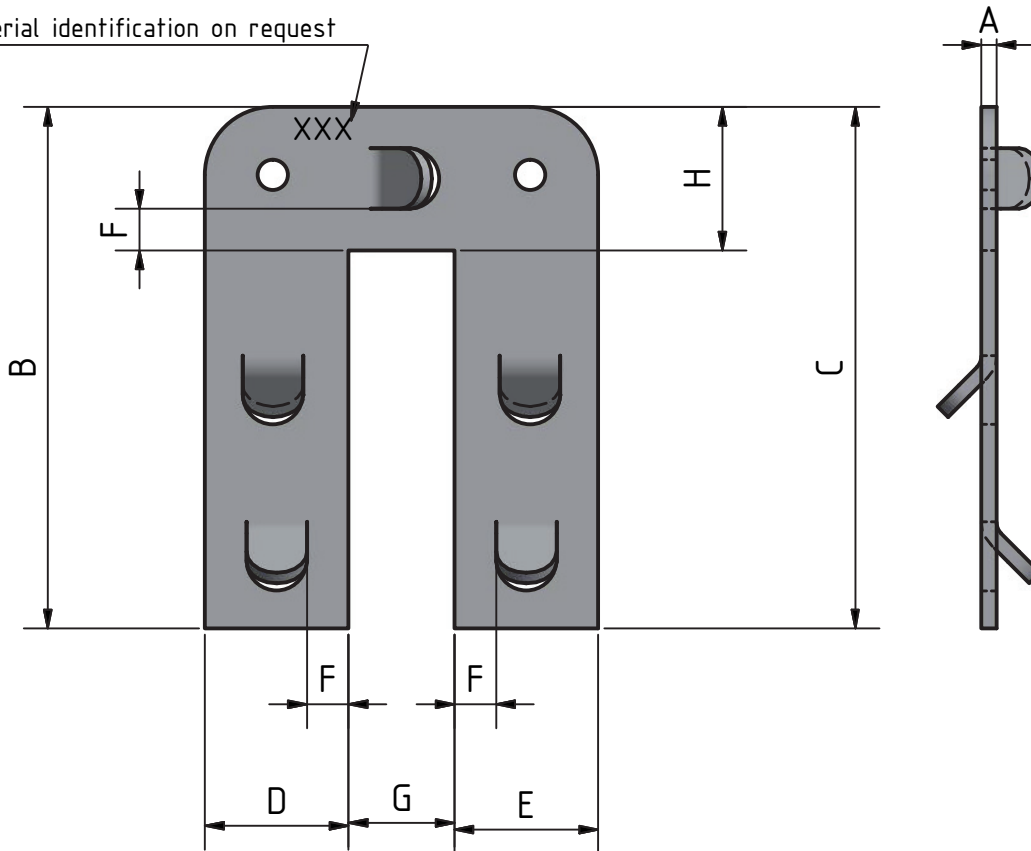


Available in material quality 410s, 304H, 309 and 310s.

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Material:	


				Weight in kg:	-
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This drawing was created with CAD. Changes can only be made with CAD		Edit	Date	Name	Item: H211 A VUTAB
Drawing reference customer:		Appr.	28.05.2018	KH	
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Urheberschutzvermerk siehe DIN 34					

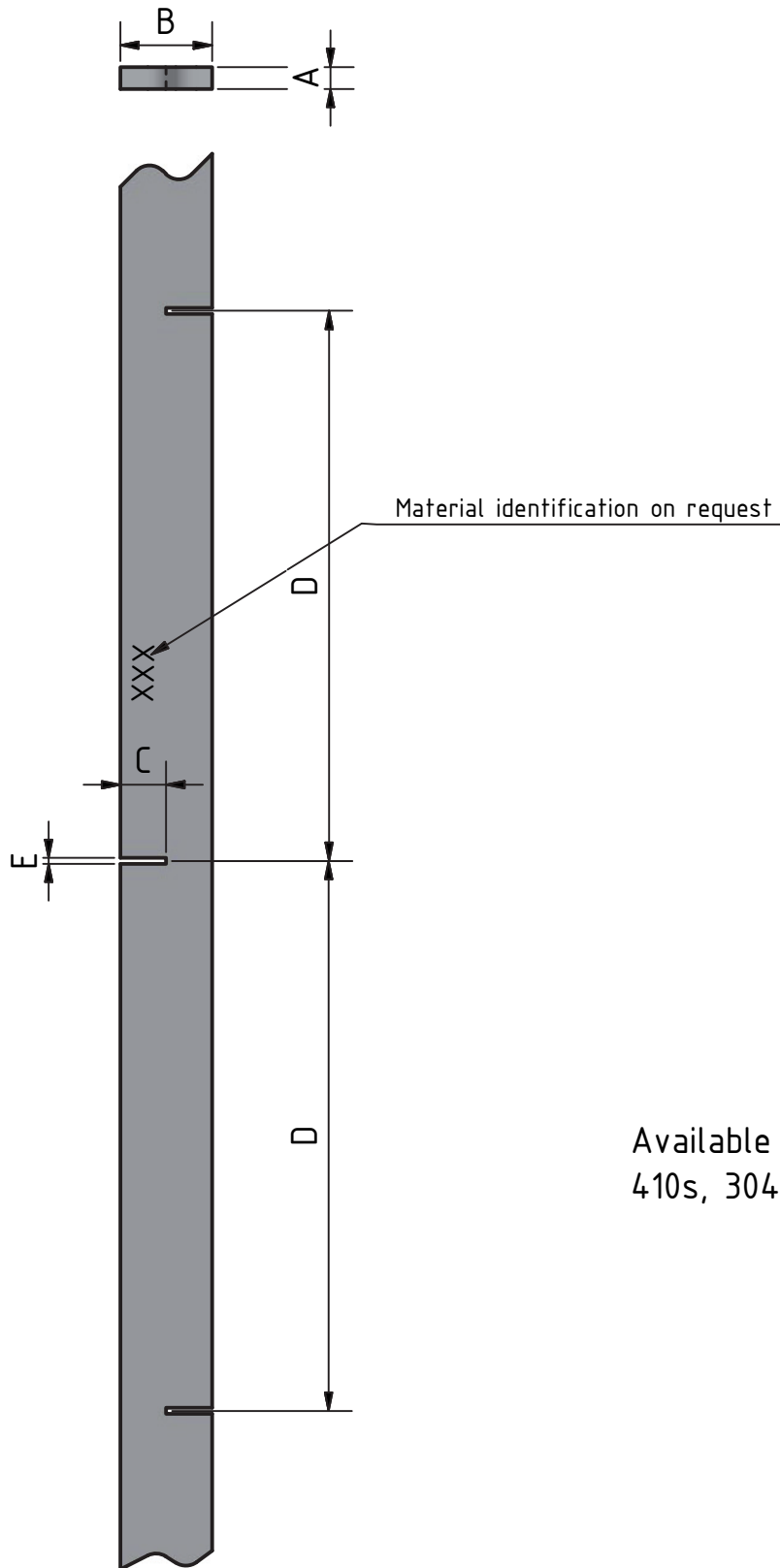
Material identification on request



Available in material quality 410s, 304H, 309 and 310s.


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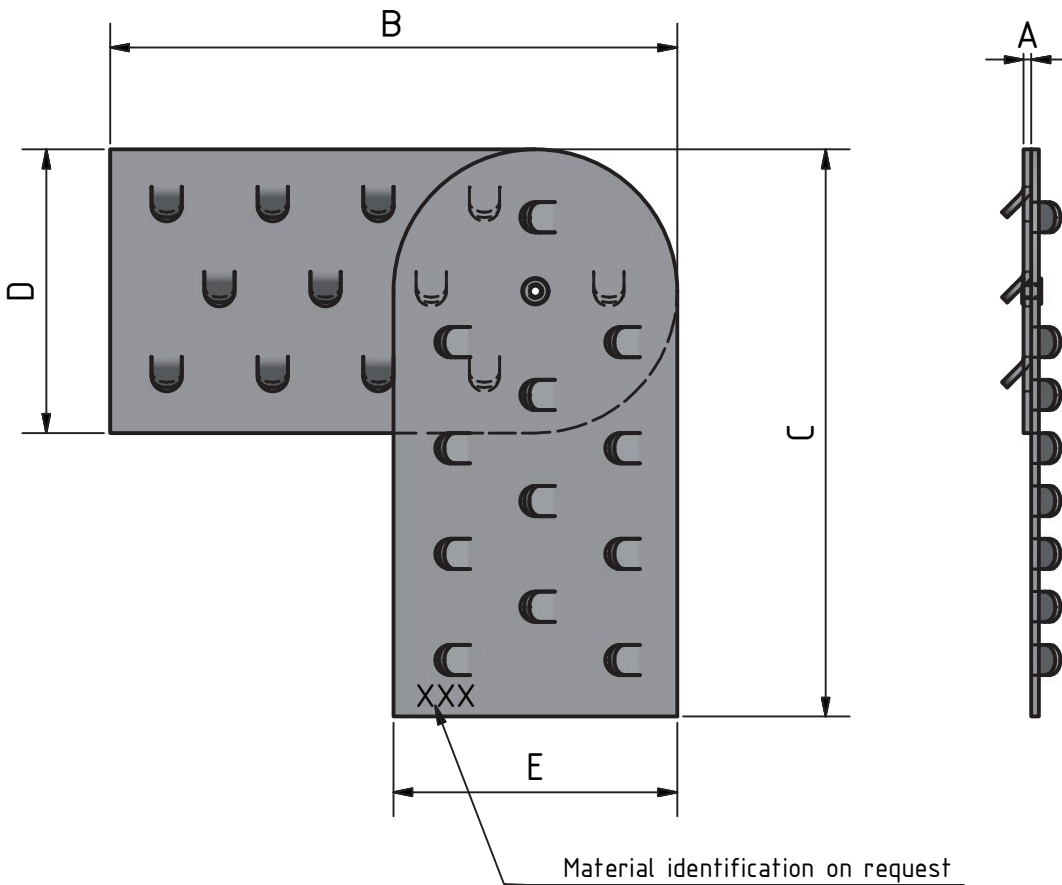
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Urheberschutzvermerk siehe DIN 34					



Available in material quality 410s, 304H, 309 and 310s.


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Material:	

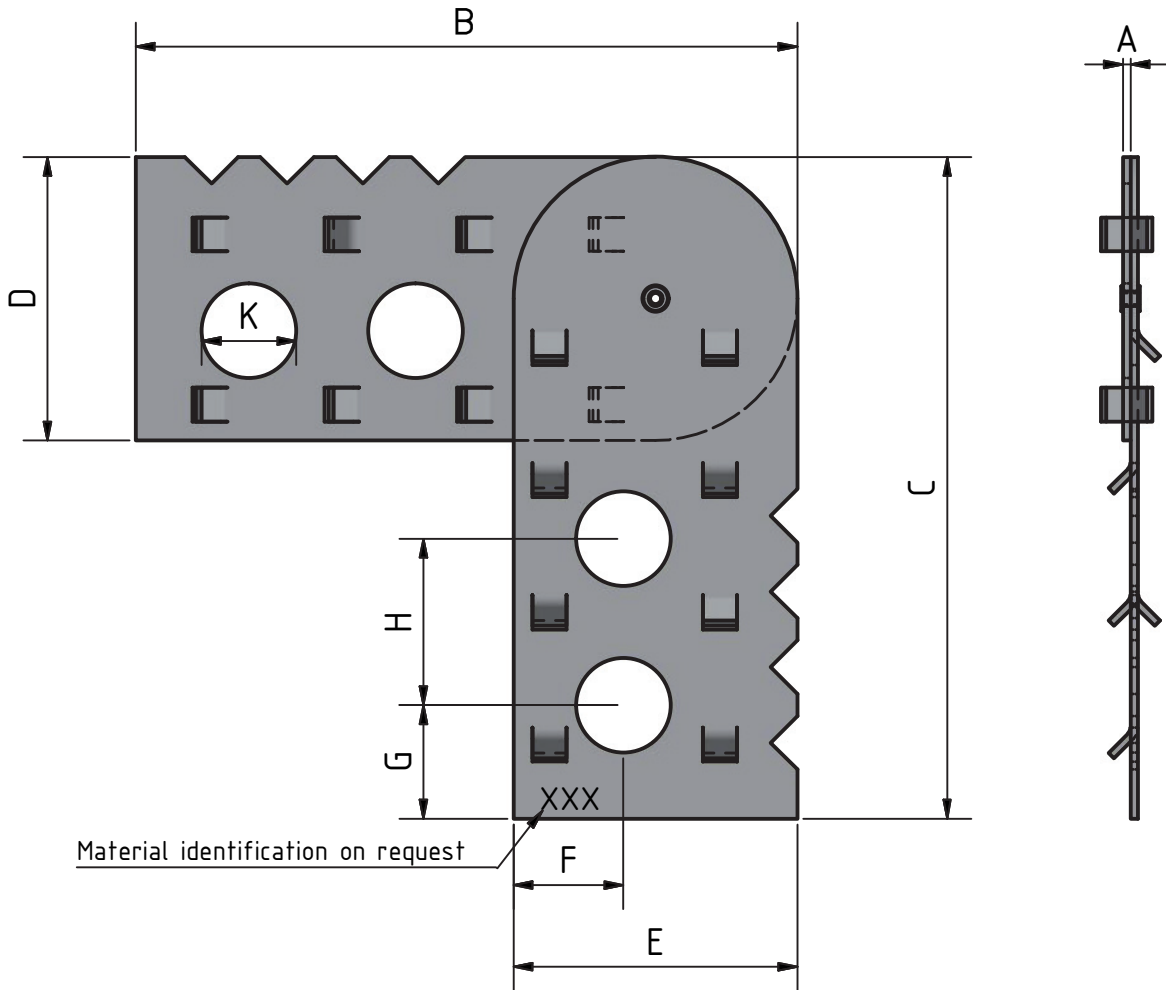
Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration				Weight in kg: -	
This drawing was created with CAD. Changes can only be made with CAD				Item: H215 D Edging bar	
		Edit	Date 28.05.2018		
Drawing reference customer:		Appr.	28.05.2018		
		Scale:			
Commission customer:		general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302	Format	Drawing No.: 5018407
		Urheberrechtsschutzvermerk siehe DIN 34			



Available in material quality 410s, 304H, 309 and 310s.


A in mm:	
B in mm:	
C in mm:	
D in mm:	
E in mm:	
Qty.:	
Material:	

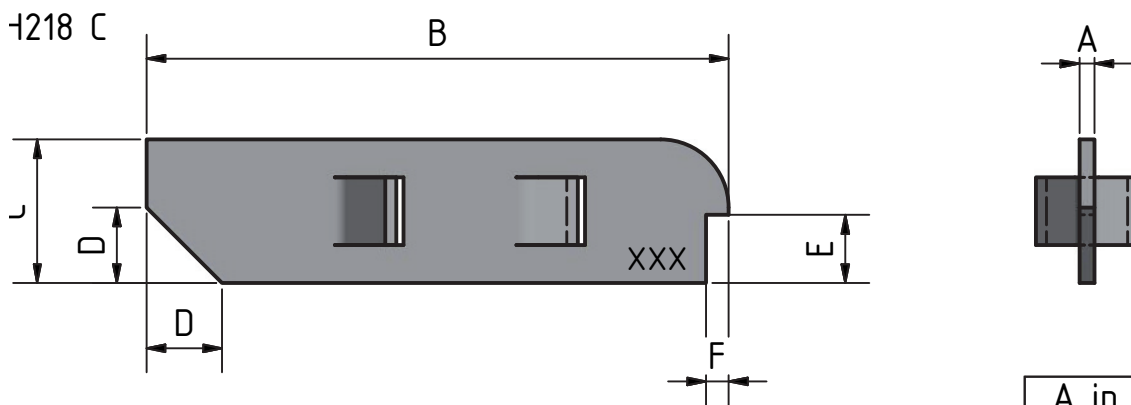
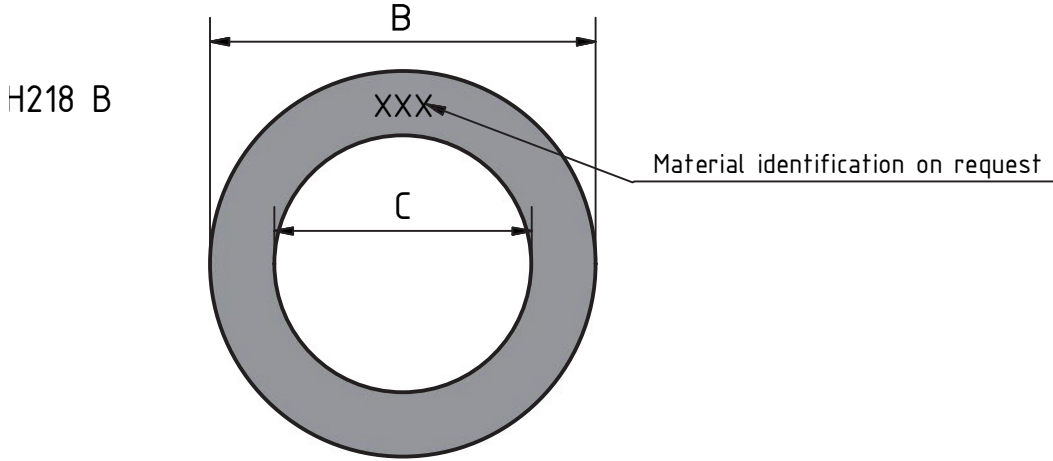
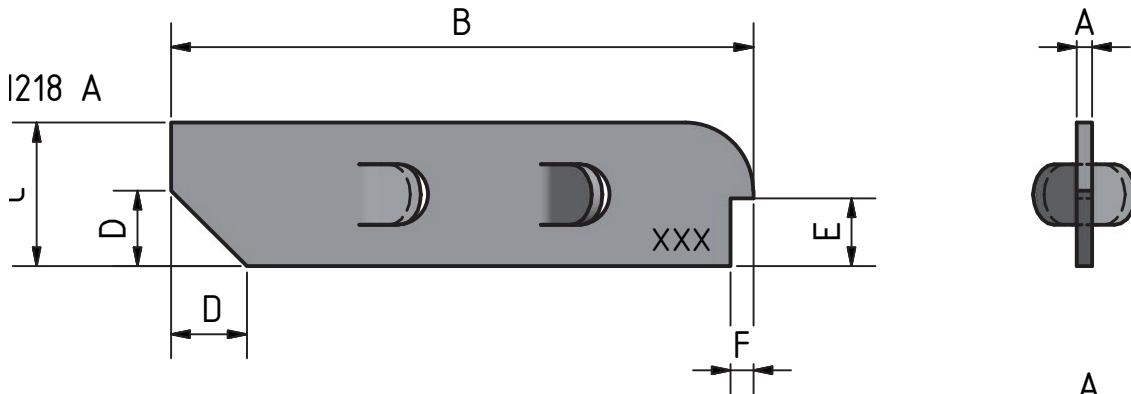
				Weight in kg:	-
<small>Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration</small>					
This drawing was created with CAD. Changes can only be made with CAD		Edit	28.05.2018	Name	KH
Drawing reference customer:		Appr.	28.05.2018	Name	AM
Commission customer:		Scale:		Item: H216 A V-Monster-Tab	
		general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302	Format	Drawing No.: 5018408
Urheberschutzvermerk siehe DIN 34					



Available in material quality 410s, 304H, 309 and 310s.


A in mm:	
B in mm:	
C in mm:	
D in mm:	
E in mm:	
F in mm:	
G in mm:	
H in mm:	
K in mm:	
Qty.:	
Material:	

				Weight in kg:	-
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This drawing was created with CAD. Changes can only be made with CAD		Edit	Date	Name	Item: H216 B V-Monster-Tab
Drawing reference customer:		Appr.	28.05.2018	KH	
		Scale:	28.05.2018	AM	
Commission customer:		general tolerance	surface roughness Ra	Format	Drawing No.: 5018409
		ISO 2768 mK	DIN ISO 1302		
Urheberschutzvermerk siehe DIN 34					

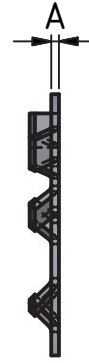
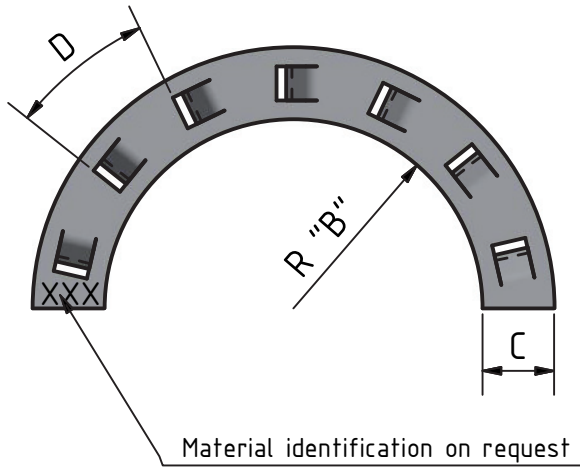


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Qty.:	
Material:	

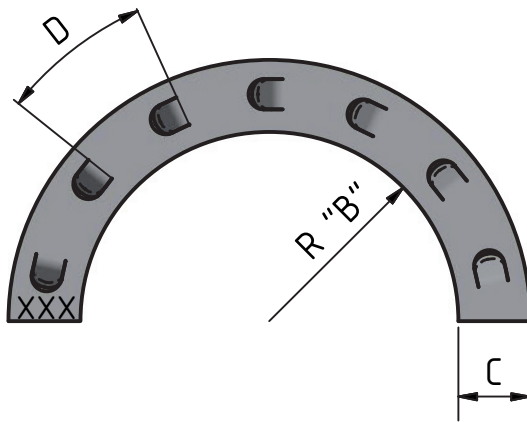
Available in material quality 410s, 304H, 309 and 310s.

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This drawing was created with CAD. Changes can only be made with CAD				Item: H218 A-C Nozzle Tab & Ring	
Drawing reference customer:		Appr.	28.05.2018		
Commission customer:		Scale:		Format	
		general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302		
Urheberschutzvermerk siehe DIN 34					

H220 A




H220 B

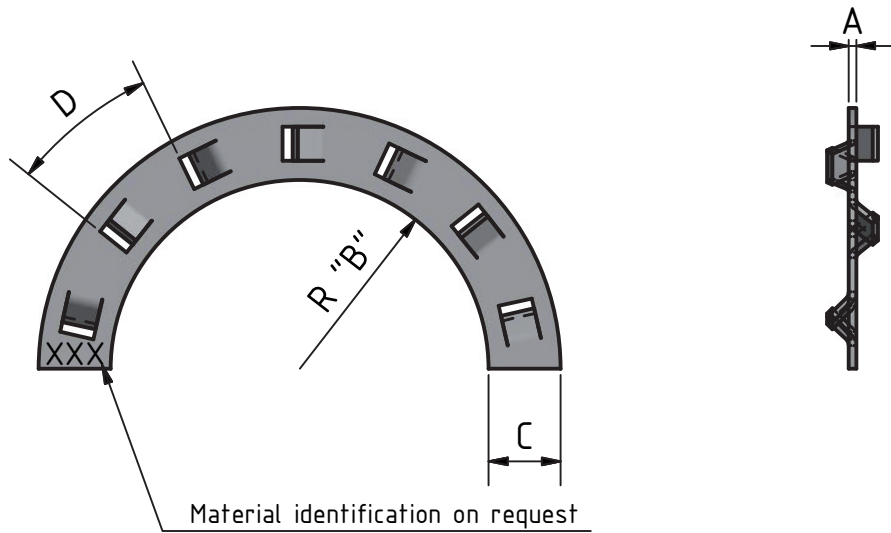


A in mm:	
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C in mm:	
D in °:	
Qty.:	
Material:	

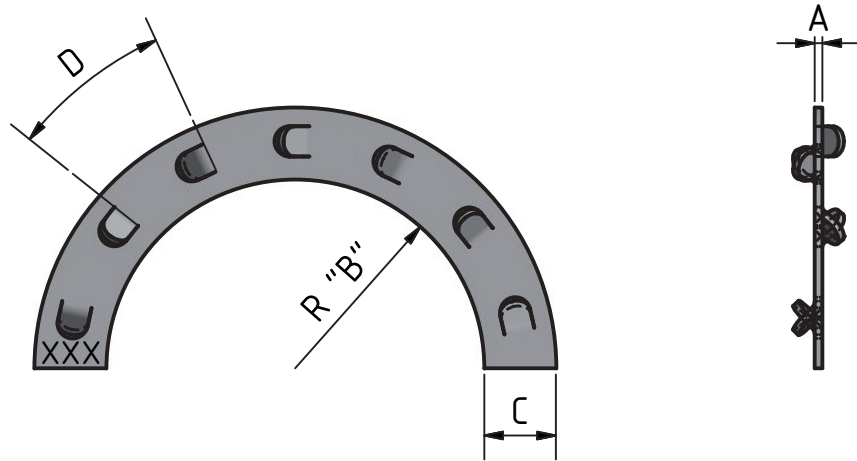
Available in material quality 410s, 304H, 309 and 310s.

Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration						Weight in kg: -	
This drawing was created with CAD. Changes can only be made with CAD		Date		Name		Item: H220 A & B RTAB	
Drawing reference customer:		Edit 28.05.2018		KH			
		Appr. 28.05.2018		AM			
Commission customer:		Scale:		Format		Drawing No.: 5018411	
		general tolerance ISO 2768 mK		surface roughness Ra DIN ISO 1302			
Urheberschutzvermerk siehe DIN 34							

H220 A




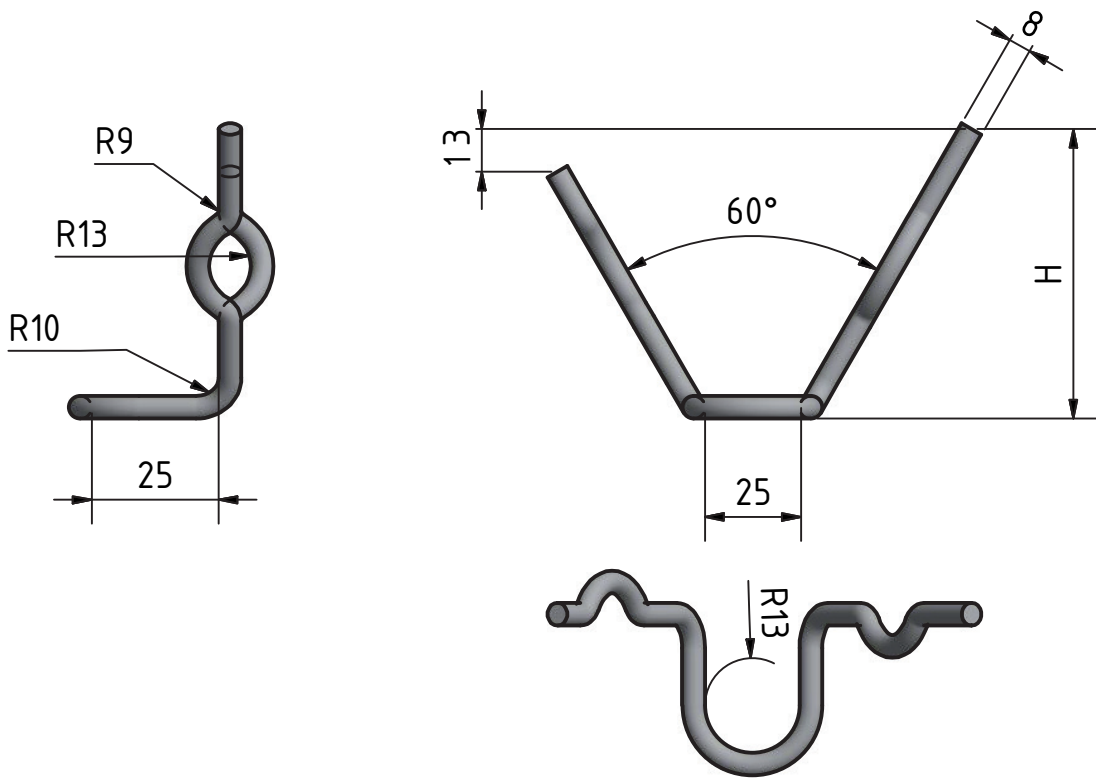
H220 B



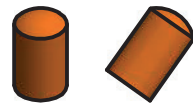
A in mm:	
B in mm:	
C in mm:	
D in °:	
Qty.:	
Material:	

Available in material quality 410s, 304H, 309 and 310s.

				Weight in kg:	-
Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration					
This drawing was created with CAD. Changes can only be made with CAD		Edit	Date	Name	Item: H220 C & D RTAB
Drawing reference customer:		Appr.	28.05.2018	KH	
		Scale:	28.05.2018	AM	
Commission customer:		general tolerance	surface roughness Ra	Format	Drawing No.:
		ISO 2768 mK	DIN ISO 1302		5018412
Urheberschutzvermerk siehe DIN 34					




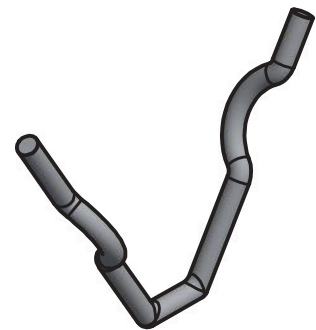
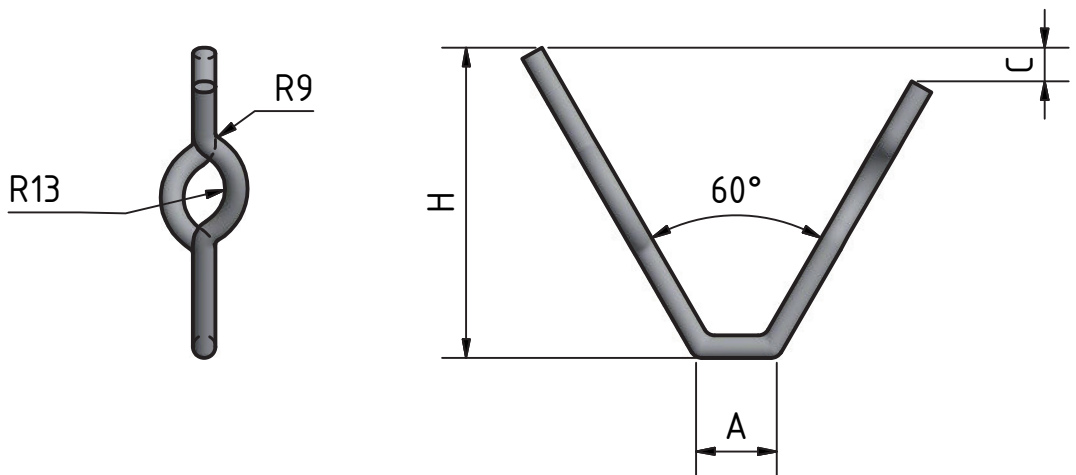
on request:
caps loose or fitted



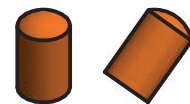
Available in material quality 304H, 309 and 310s.

H in mm:	
Qty.:	
Material:	

				Weight in kg:	-
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This drawing was created with CAD. Changes can only be made with CAD		Edit	Date 28.05.2018	Name KH	Item: U base vee anchor
Drawing reference customer:		Appr.	28.05.2018	AM	
		Scale:			
Commission customer:		general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302	Format	Drawing No.: 5018501
Urheberschutzvermerk siehe DIN 34					




on request:
caps loose or fitted

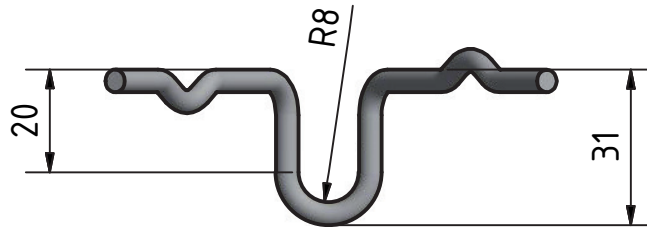
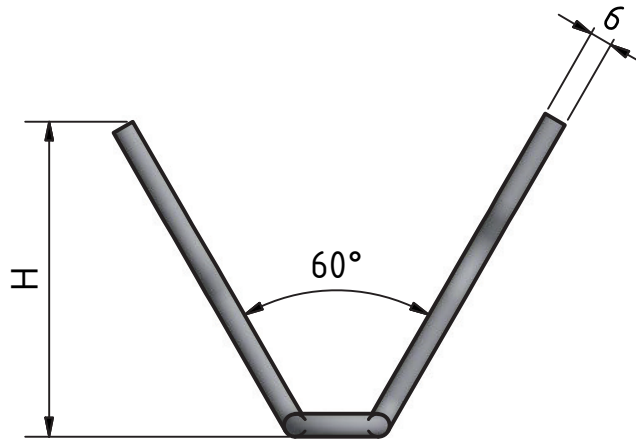
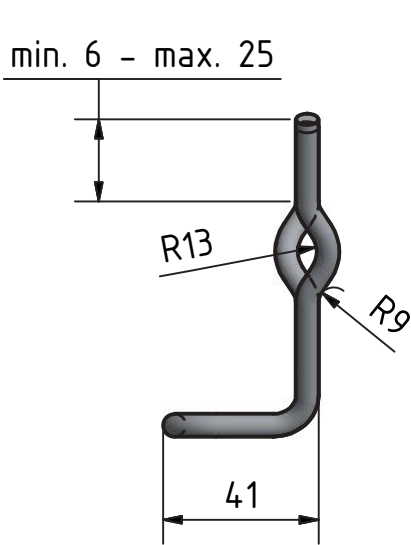


Available in material quality 304H, 309 and 310s.

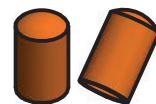
Ain mm:	
C in mm:	
H in mm:	
Qty.:	
Material:	

Weight in kg: -

Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration					
This drawing was created with CAD. Changes can only be made with CAD		Edit	Date 28.05.2018	Name KH	Item: Flat base vee anchor
Drawing reference customer:		Appr.	28.05.2018	AM	
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Commission customer:		general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302	Format	Drawing No.: 5018502
Urheberrechtvermerk siehe DIN 34					




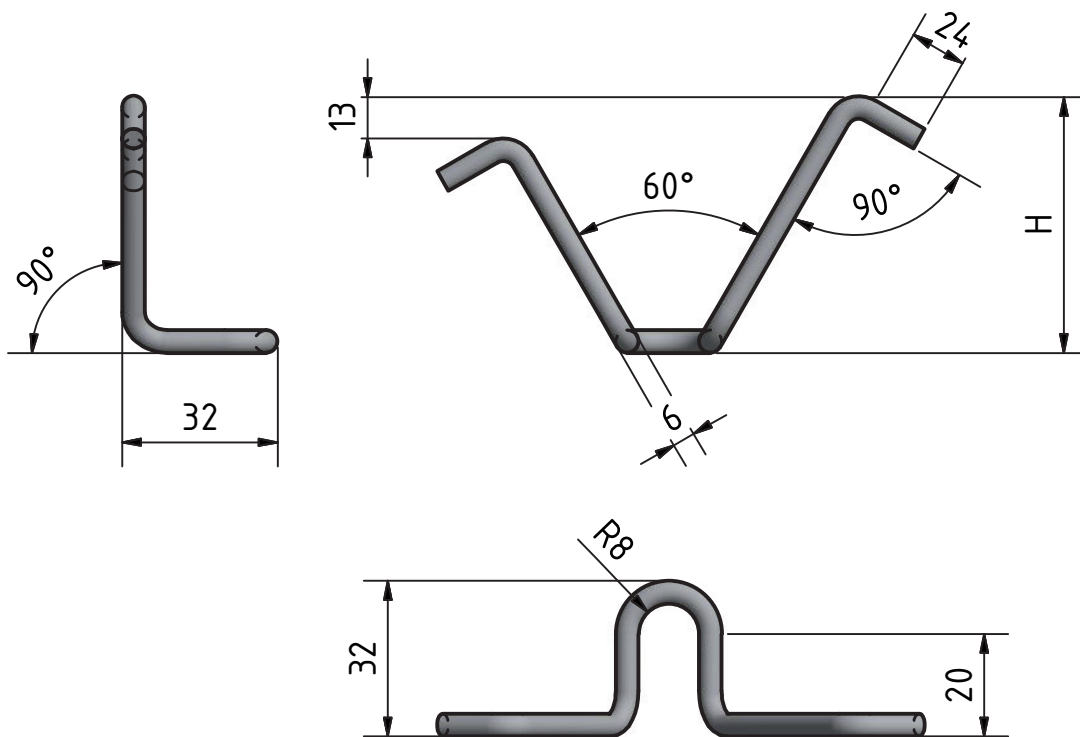
on request:
caps loose or fitted



Available in material quality 304H, 309 and 310s.

H in mm:	
Qty.:	
Material:	

Passing on as well as duplication of these documents, utilization and communication of their contents are not permitted, unless expressly conceded. Violations oblige to compensation. All rights reserved in the event of patent grant or utility model registration						Weight in kg: -	
This drawing was created with CAD. Changes can only be made with CAD		Date	Name	Item: Wavy vee anchor			
		Edit	28.05.2018				
Drawing reference customer:		Appr.	28.05.2018				
		Scale:					
Commission customer:		general tolerance	surface roughness Ra	Format	Drawing No.: 5018503		
		ISO 2768 mK	DIN ISO 1302				
Urheberschutzvermerk siehe DIN 34							




on request:
caps loose or fitted



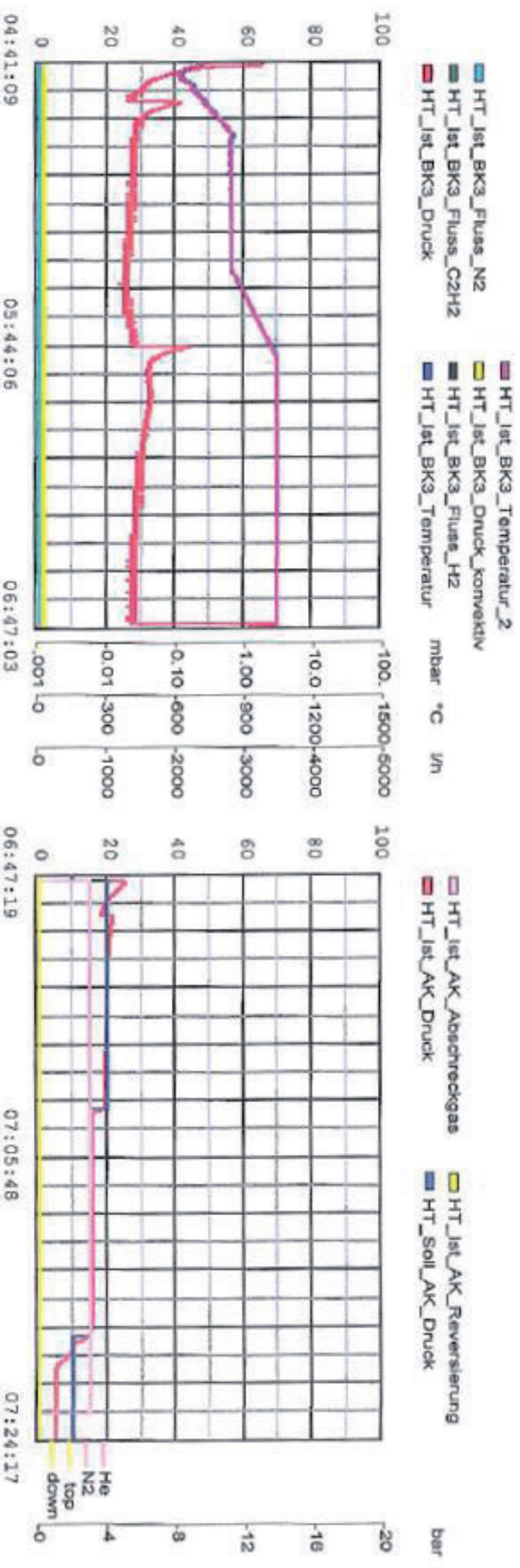

Available in material quality 304H, 309 and 310s.

H in mm:	
Qty.:	
Material:	

				Weight in kg:	-
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This drawing was created with CAD. Changes can only be made with CAD		Date Edit 28.05.2018	Name KH	Item: <h1>Double hook vee anchor</h1>	
Drawing reference customer:		Appr. 28.05.2018	AM		
		Scale:			
Commission customer:		general tolerance ISO 2768 mK	surface roughness Ra DIN ISO 1302	Format	Drawing No.: <h1>5018504</h1>
Urheberrechtvermerk siehe DIN 34					

Certificate of bright solution annealing and cooling process

WSH	ModulTherm	Wärmebehandlungsprotokoll	Datum: 10/04/2018 21:36:27
Chargennummer: 81800987	Rezept: 1166.1	Text1: <i>Lösungslüften</i>	Zeitstempel In BK1 1/04/2018 04:41:09
Teilenummer:	Freigegeben von: 32	Text2:	Zeitstempel In AK1 1/04/2018 06:47:19
			Bediener: 56



1: BK3

2: AK

Material certificates from raw-material suppliers

CERTIFICATO NUMERO C-150028816 DEL 02/04/2015

Cliente : G. STROMBERG APPARATEBAU GMBH Vs. Ordine : 40150068
 Materiale : NASTRI MM. 2.60 X19.0
 Mecc. in : 0518377 Comprensivi : P127341
 NS.DDT : V043480 Del 06/05/2015

Accei Speciali Terni S.p.A. - ex Unico Stels
 V.M.S. - Bv. 258 - 05100 Terni - Italia
 AZIENDA CON SISTEMA DI GESTIONE CERTIFICATO PER ISO 9001
 EN 10028-7 EN 10028-2
 S.P. 10028-7-200042/910 EN 10088-4
 ASSOCIATO ALL'ASTM A 240 ASME SA 240

CERTIFICATO DI COLLAUDO EN 10204/3.1 1479634
 INSPECTION CERTIFICATE
 CERTIFICATE DE RECEPTION
 AGNAMI-PRUZEUGNIS B
 14/000170
 CLIENTE: C. P. C. INOX SPA
 VIA S. GIUSEPPE 7/5
 00032 RI ITALIA
 ORDINE CLIENTE N°:
 COMPARTO CLIENTE N°:
 CANTIERE CLIENTE N°:
 C. P. C. INOX SPA
 VIA MONZA 1-ZONA INDUSTRIALE
 05032 RI ITALIA

8X140572 C.P.C. INOX SPA
 VIA MONZA 1-ZONA INDUSTRIALE
 05032 RI ITALIA

ANALISI PERCENTUALE		ANALISI PERCENTUALE	
PRELIMINARE		DEFINITIVA	
N° LOTTO	743124	N° LOTTO	743124
N° SAGGIO	5	N° SAGGIO	5
COMPOSIZIONE CHIMICA / CHEMICAL COMPOSITION / COMPOSITION CHIMIQUE / CHEMISCHE ZUSAMMENSETZUNG		TEORICO / THEORETICAL / TEORICO / THEORETICAL	
% C	0.026	% C	0.026
% P	0.001	% P	0.001
% S	0.001	% S	0.001
% N	0.001	% N	0.001
% Cu	0.001	% Cu	0.001
% Ni	0.001	% Ni	0.001
% Ti	0.001	% Ti	0.001
% Al	0.001	% Al	0.001
% Mn	0.001	% Mn	0.001
% Si	0.001	% Si	0.001
% Fe	0.001	% Fe	0.001

VERIFICATIONSPRUFUNG, OBERFLÄCHEN- UND MASSKONTROLLE : ORNE BEANSTÄNDUNG
 THE MATERIAL MEETS THE HERNESS REQUIREMENTS OF NACE MR0175/MR0103
 COMPLIES WITH P. E. D. 977/237EC

RECAPITOLARE PROVA / TEST RESULTS / RESULTATS DES ESSAIS / ERGEBNISSE DER VERSUCHEN

PROVA / TEST / ESSAI / VERSUCH	VALORE / VALUE / VALEUR / WERT	UNITA' / UNIT / UNITE / EINHEIT	REQUISITI / REQUIREMENTS / REQUISITS / ANFORDERUNGEN
1. 2D	23920	T	255 254
2. 05X1520.0	620	57.0	59.5
C58039	263	608	56.5 58.0
C58039	743124		

RECAPITOLARE PROVA / TEST RESULTS / RESULTATS DES ESSAIS / ERGEBNISSE DER VERSUCHEN
 COMPLIES WITH P. E. D. 977/237EC

CERTIFICATO NUMERO C-150028816 DEL 02/04/2015

Cliente : G. STROMBERG APPARATEBAU GMBH Vs. Ordine : 40150068
 Materiale : NASTRI MM. 2.60 X19.0
 Mecc. in : 0518377 Comprensivi : P127341
 NS.DDT : V043480 Del 06/05/2015

Accei Speciali Terni S.p.A. - ex Unico Stels
 V.M.S. - Bv. 258 - 05100 Terni - Italia
 AZIENDA CON SISTEMA DI GESTIONE CERTIFICATO PER ISO 9001
 EN 10028-7 EN 10028-2
 S.P. 10028-7-200042/910 EN 10088-4
 ASSOCIATO ALL'ASTM A 240 ASME SA 240

CERTIFICATO DI COLLAUDO EN 10204/3.1 1479634
 INSPECTION CERTIFICATE
 CERTIFICATE DE RECEPTION
 AGNAMI-PRUZEUGNIS B
 14/000170
 CLIENTE: C. P. C. INOX SPA
 VIA S. GIUSEPPE 7/5
 00032 RI ITALIA
 ORDINE CLIENTE N°:
 COMPARTO CLIENTE N°:
 CANTIERE CLIENTE N°:
 C. P. C. INOX SPA
 VIA MONZA 1-ZONA INDUSTRIALE
 05032 RI ITALIA

8X140572 C.P.C. INOX SPA
 VIA MONZA 1-ZONA INDUSTRIALE
 05032 RI ITALIA

ANALISI PERCENTUALE		ANALISI PERCENTUALE	
PRELIMINARE		DEFINITIVA	
N° LOTTO	743124	N° LOTTO	743124
N° SAGGIO	5	N° SAGGIO	5
COMPOSIZIONE CHIMICA / CHEMICAL COMPOSITION / COMPOSITION CHIMIQUE / CHEMISCHE ZUSAMMENSETZUNG		TEORICO / THEORETICAL / TEORICO / THEORETICAL	
% C	0.026	% C	0.026
% P	0.001	% P	0.001
% S	0.001	% S	0.001
% N	0.001	% N	0.001
% Cu	0.001	% Cu	0.001
% Ni	0.001	% Ni	0.001
% Ti	0.001	% Ti	0.001
% Al	0.001	% Al	0.001
% Mn	0.001	% Mn	0.001
% Si	0.001	% Si	0.001
% Fe	0.001	% Fe	0.001

VERIFICATIONSPRUFUNG, OBERFLÄCHEN- UND MASSKONTROLLE : ORNE BEANSTÄNDUNG
 THE MATERIAL MEETS THE HERNESS REQUIREMENTS OF NACE MR0175/MR0103
 COMPLIES WITH P. E. D. 977/237EC

RECAPITOLARE PROVA / TEST RESULTS / RESULTATS DES ESSAIS / ERGEBNISSE DER VERSUCHEN

PROVA / TEST / ESSAI / VERSUCH	VALORE / VALUE / VALEUR / WERT	UNITA' / UNIT / UNITE / EINHEIT	REQUISITI / REQUIREMENTS / REQUISITS / ANFORDERUNGEN
1. 2D	23920	T	255 254
2. 05X1520.0	620	57.0	59.5
C58039	263	608	56.5 58.0
C58039	743124		

RECAPITOLARE PROVA / TEST RESULTS / RESULTATS DES ESSAIS / ERGEBNISSE DER VERSUCHEN
 COMPLIES WITH P. E. D. 977/237EC



AGST Draht & Blechtechnik GmbH
 Gewerbegebiet Broich
 Overrather Straße 118
 51766 Engelskirchen
 Telefon (0 22 63) 92 40-0
 Telefax (0 22 63) 92 40-22
 E-Mail : ngs@agst.de
 Internet : www.agst.de

Stromberg GmbH
 Bouslingstr. 5
 D-40880 Ratingen
 Ihre Best.-Nr. : 40160172 vom : 11.07.2016
 Unsere AB : 12160253 vom : 11.07.2016
 Leiter-Nr : 13160385 vom : 12.07.2016
 Rechnung-Nr : 14160383 vom : 12.07.2016
 Abmessung : 8,00 mm Mat.-EN : Edelstahl 1.4301 - EN 10088 / Rm = 650 - 850 N/mm²
 Charge/Zugnis : 160321Y0242280 Ursprung : kein Ursprungszeugnis
 Gewicht : 2.063,6 kg Bemerkung :

Ausgang aus dem Originalnahsehprfzeugnis gemäß EN 10204 3.1

Chemische Zusammensetzung						
C	Si	Mn	P	S	N	Cr
0,047	0,420	0,930	0,037	0,004	0,045	18,150

Ni	Cu	Mo	Ti	Nb	W	Al
	8,060					

Mechanische Eigenschaften

Min	Max	Streckgrenze N/mm² (Rp0.2)	Dehnung in % (A)	Einschränkung in % (Z)
		496,00	40,00	

Min	Max	AGT in %

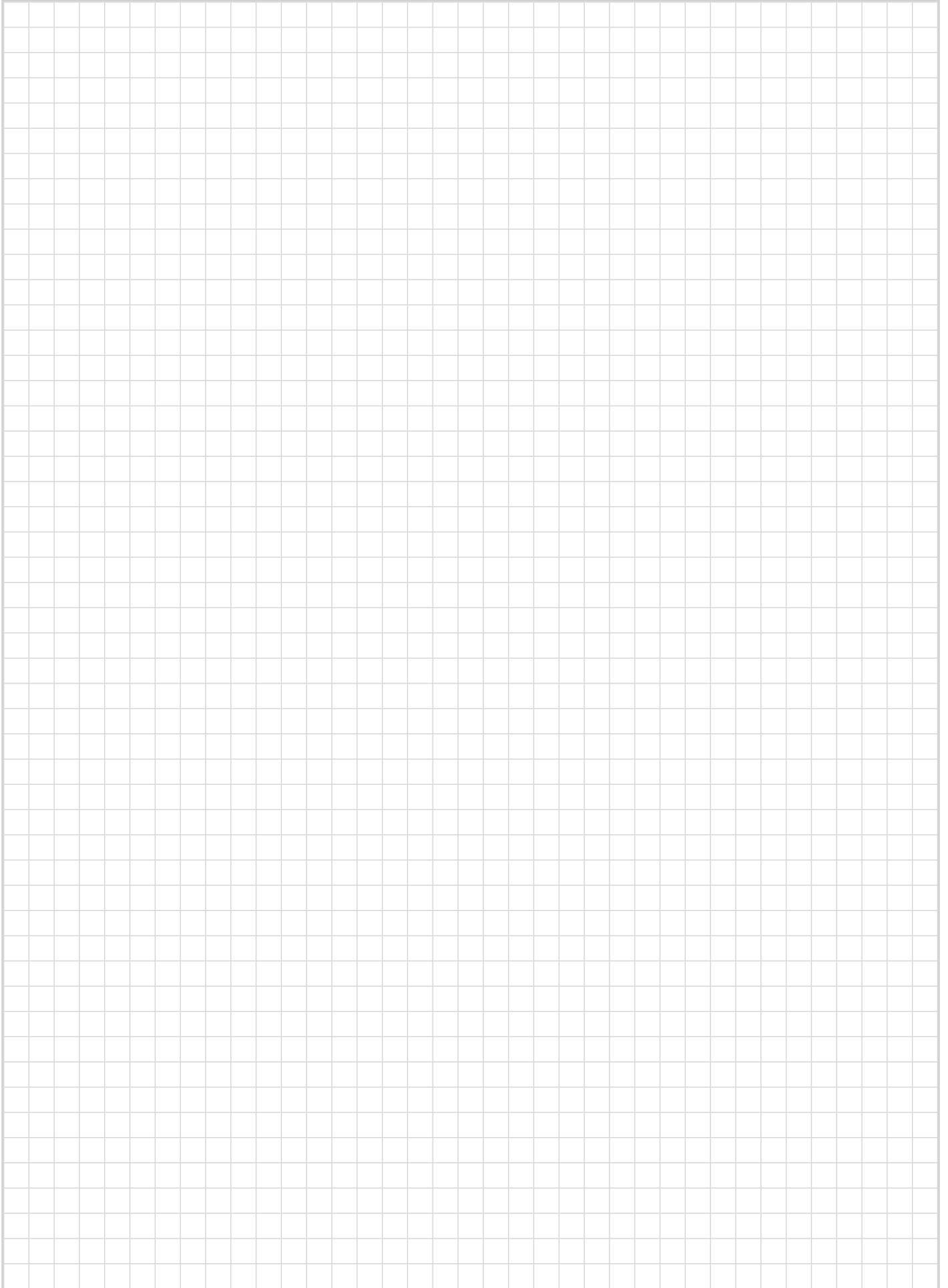
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 Engländerchen

Deutsche Bank Gammesshoh
 Kto-Nr. 41 555 60
 BLZ 250 700 01
 IBAN DE 25 07 00 01 0415 5560 00
 BIC: DEUT33HAN33

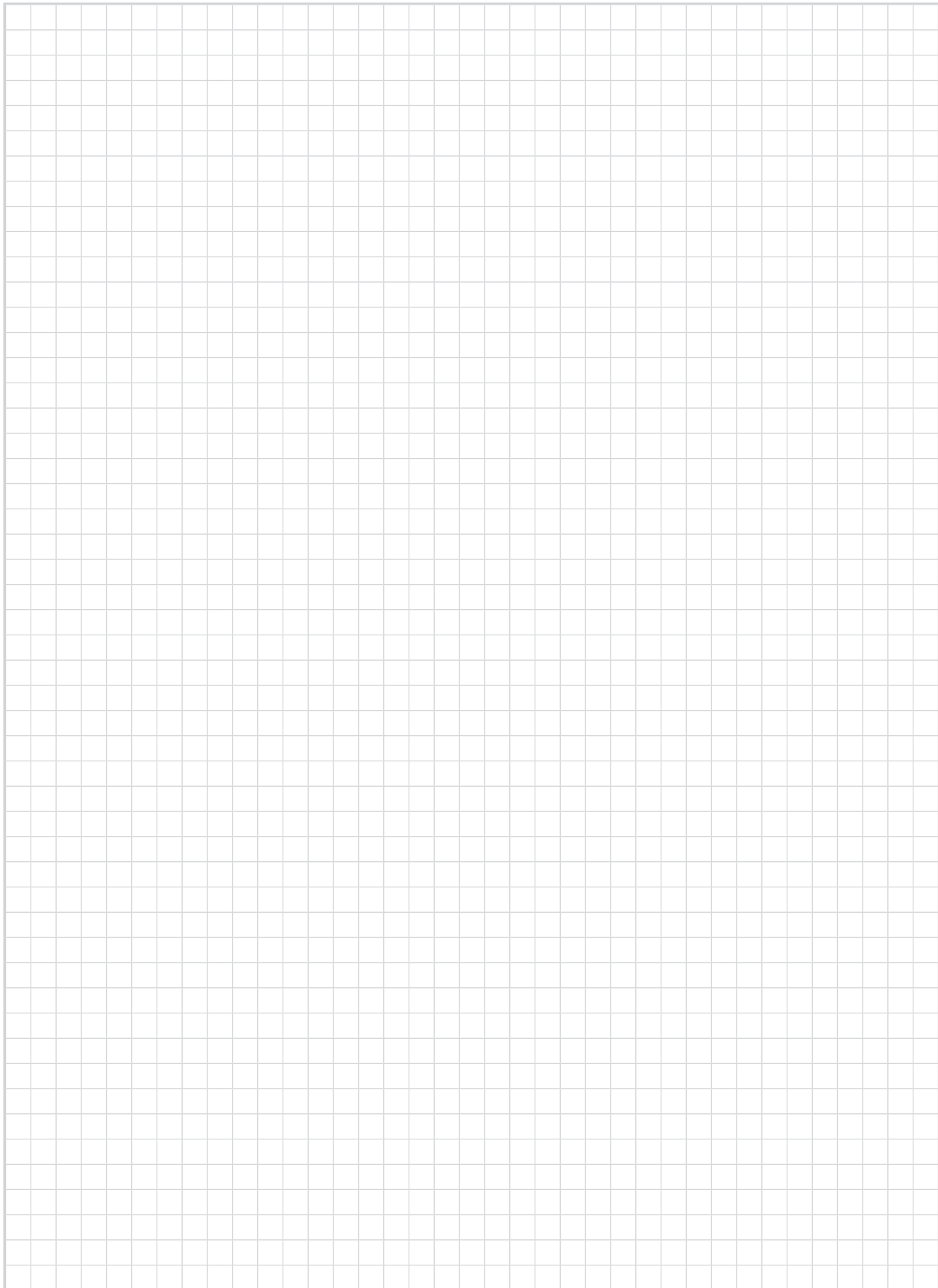
Volkswagen Oberberg eG
 Kto-Nr. 7 103 940 012
 BLZ 251 200 01
 IBAN DE 25 12 00 00 0121 9400 01
 BIC: GENODE33HAN



Notes:



Notes:



The enclosed refractory anchorage designs are only a small selection of our extensive product range. In case you have any questions or specific requirements, please do not hesitate to contact us at any time.

Our dedicated specialist team is available to work with you whenever required.

Our contact details

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Development Consultant

Mr. Mike Poole
FCCU Inspector (API 936)
Phone: +44 (0) 79 08. 21 43 21
mike.poole@stromberg-gmbh.com



STROMBERG
Refractory Anchorage Systems