



ETA-Danmark A/S
Göteborg Plads 1
DK-2150 Nordhavn
Tel. +45 72 24 59 00
Internet www.etadanmark.dk

Authorised and notified according
to Article 29 of the Regulation (EU)
No 305/2011 of the European
Parliament and of the Council of
9 March 2011

MEMBER OF EOTA



European Technical Assessment ETA-21/0146 of 2021/03/24

General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:

HAZ PA2 Façade Anchor

Product family to which the above construction product belongs:

Façade Anchor

Manufacturer:

HAZ Metal Deutschland GmbH
Alfred-Zippe-Strasse 1
DE-97877 Wertheim
Telephone: +49 9342 93590
www.haz.eu

Manufacturing plant:

HAZ Metal AS,
Şehit Er Ali Çıracı Caddesi, No: 10,
Akçay Sanayi Bölgesi
TR-31200 İskenderun/Hatay

This European Technical Assessment contains:

16 pages including 3 annexes which form an integral part of the document

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:

European Assessment Document (EAD)
333220-00-0601: Pre-installed anchor for fastening
façade elements, version January 2021

This version replaces:

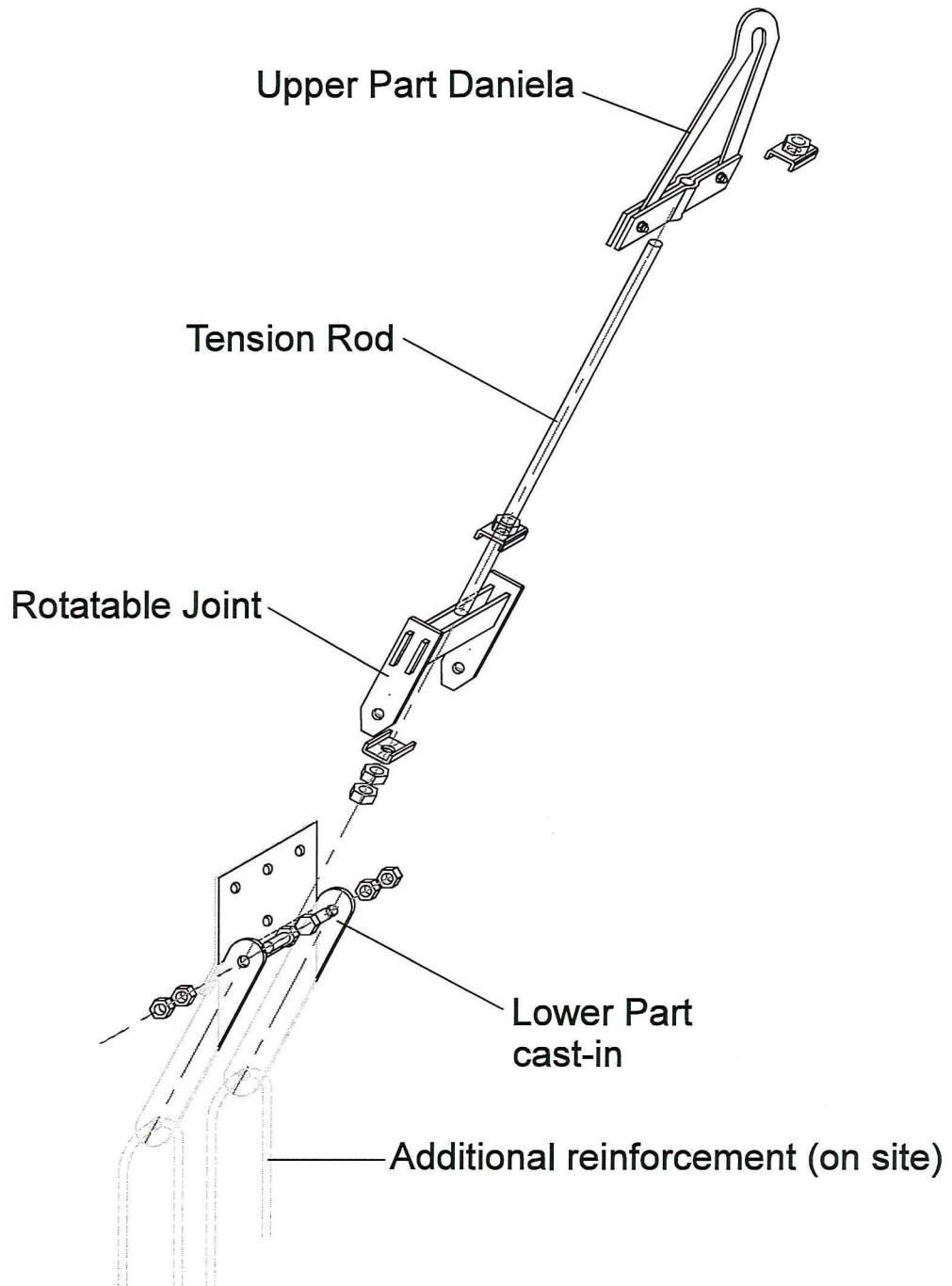
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ETA-21/0146 PA2- Panel Anchor





ETA-21/0146 PA2- Panel Anchor

Description

There are usually two Façade anchor per plate as symmetrical as possible arranged. Sufficient for narrow panels mostly a facade anchor.

The pressure screws serve as spacers. With facade panels arranged one above the other are mostly the lower pressure screws through Pins replaced.

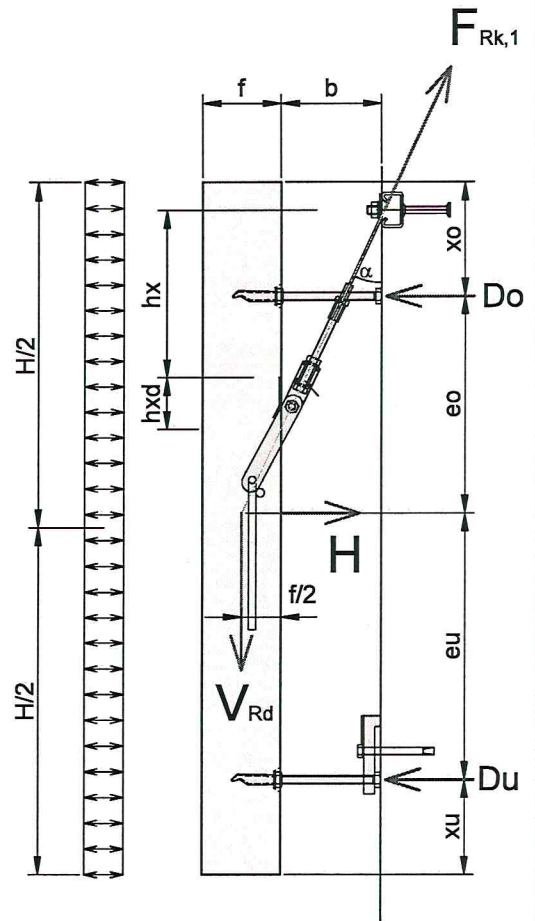
For forces lifted by wind suction the pressure screws must through Suction holder are held horizontally.

Design

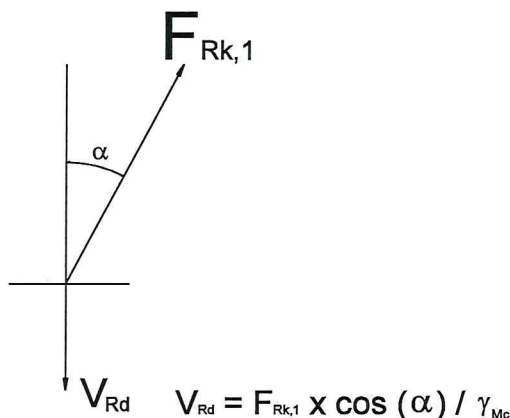
The load-bearing capacity of the PA2 facade anchor is regulated according to ETA-21/0146.

All facade anchor parts are made of stainless steel. The parts are riveted together without a weld. The assembly parts are pre-assembled at the factory.

The arrangement and choice of facade anchor types are made by HAZ PA2 design program. Download: <http://www.haz.eu/en/software/>



$$Hx + Hxd = b / \tan(\alpha)$$



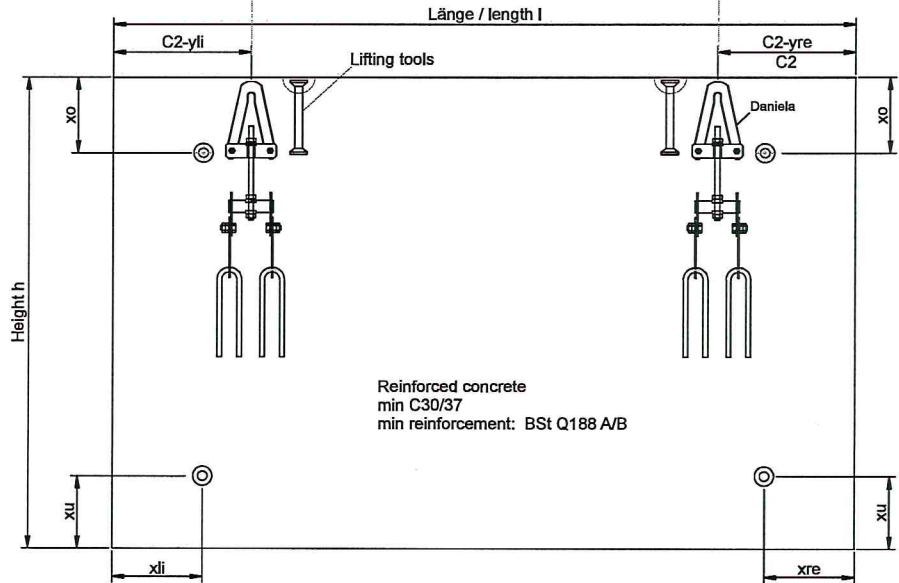
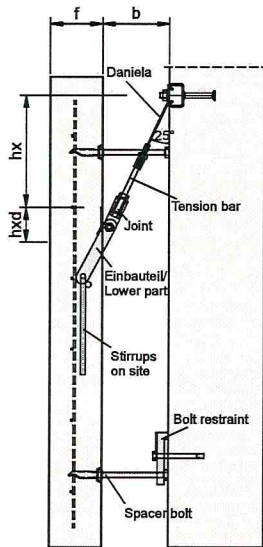
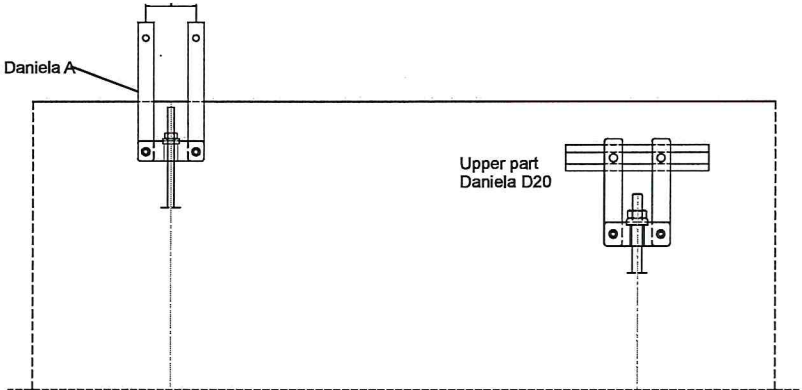
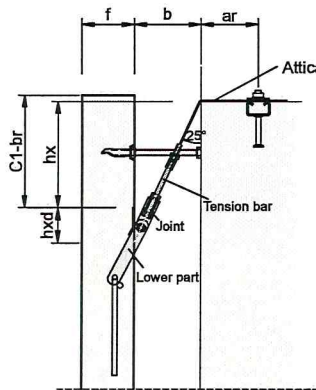
Condition

$$V_d \leq V_{Rd}$$

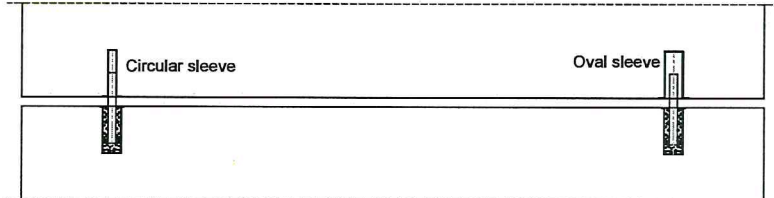
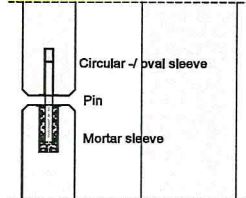
Type	A	B	C	D	E
$F_{Rk,1}$ (kN)	19,4	25,0	35,6	52,6	85,8
α (-)	25	25	25	25	25
γ_{Mc} (-)	1,5	1,5	1,5	1,5	1,5
V_{Rd} (kN)	11,7	15,1	21,5	31,8	51,8



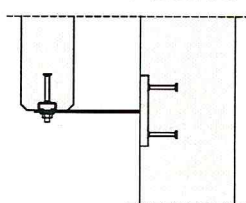
ETA-21/0146 PA2- Panel Anchor



Pin system

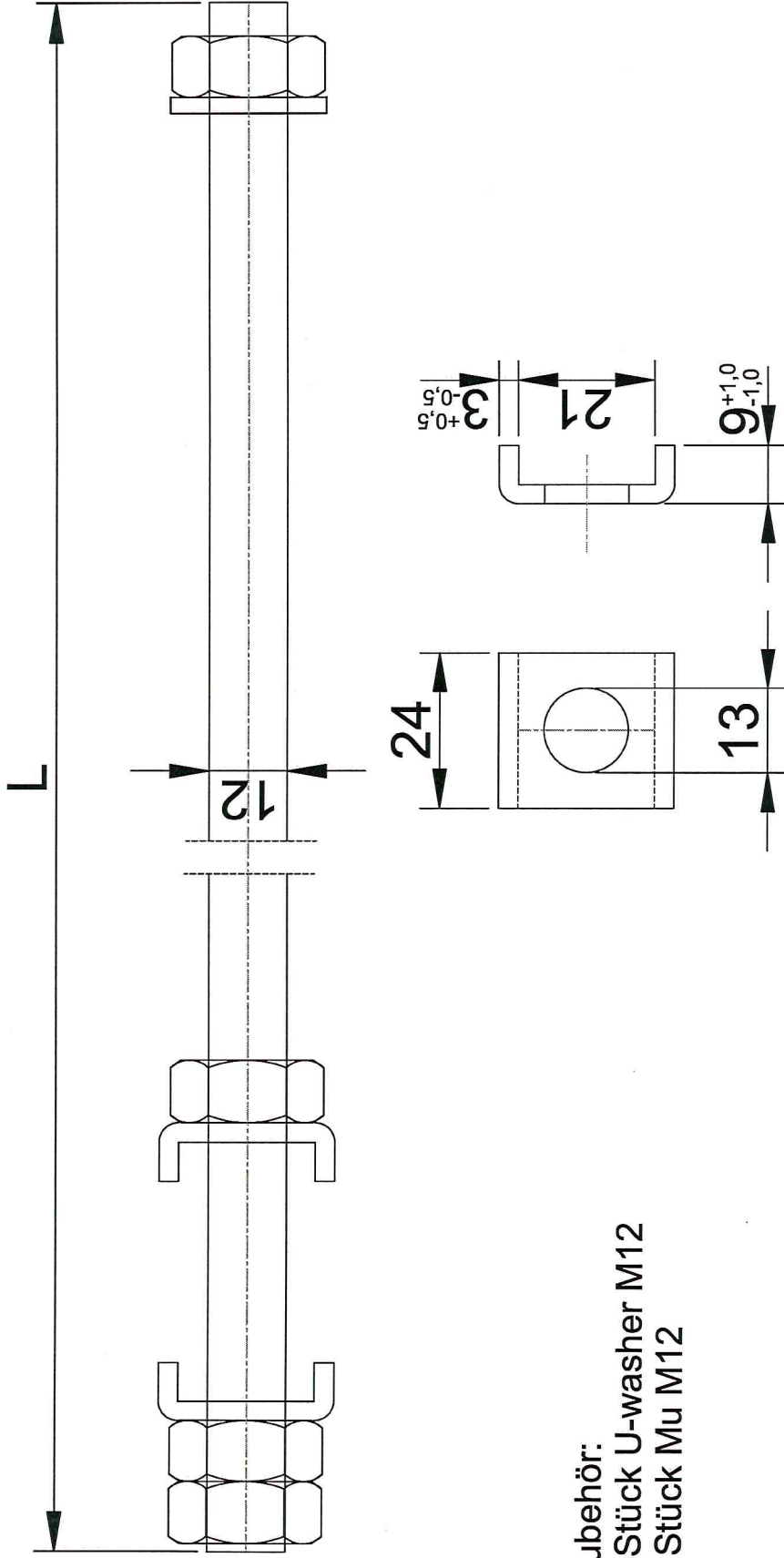


Anchor channel with wall tees



Min. Dimension (mm)

Type	A	B	C	D	E
f	80	80	90	110	110
C1-br	100	100	100	196	196
C2-yli / yre	110	110	120	190	190
xli / xre	80	100	100	110	110
xo / xu	80	100	100	110	110

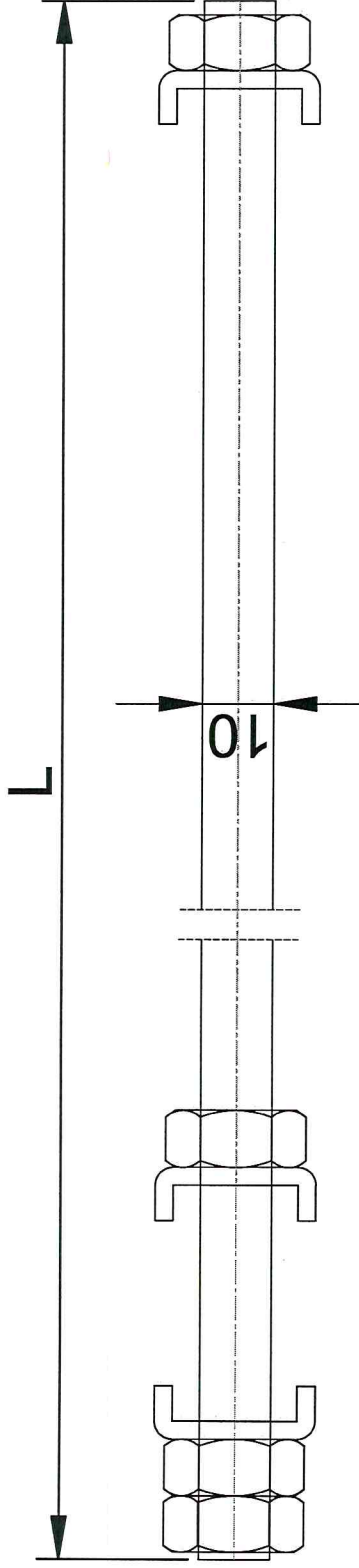


Zubehör:
 3 Stück U-washer M12
 4 Stück Mu M12

Material: A4-70


M12

Zeichnung Nr.:	PA2-tension rod M12	Allgemeine Toleranz $\pm 0,5$ mm	Material: Tension rod: A4-70
Drawing No.:	PA2-Tension rod	Bewertungsgruppen nach ISO 5817 C	U-washer A4-S235, 1.4401, 1.4404
Projektname	PA2	100% Sichtprüfung/ Weid check	NACH DIN EN 10088-2
Projekt Nr.:	MP	Rev.Nr.:	Rev. Datum:
gezeichnet:	MP	A	
geprüft:	MP	B	

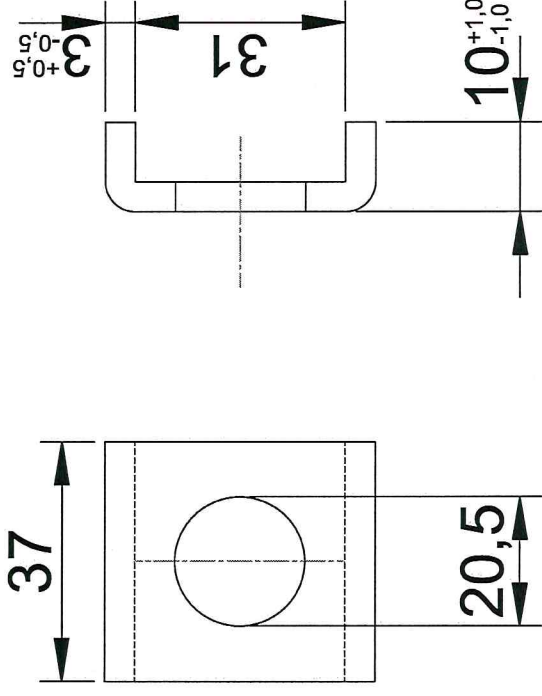
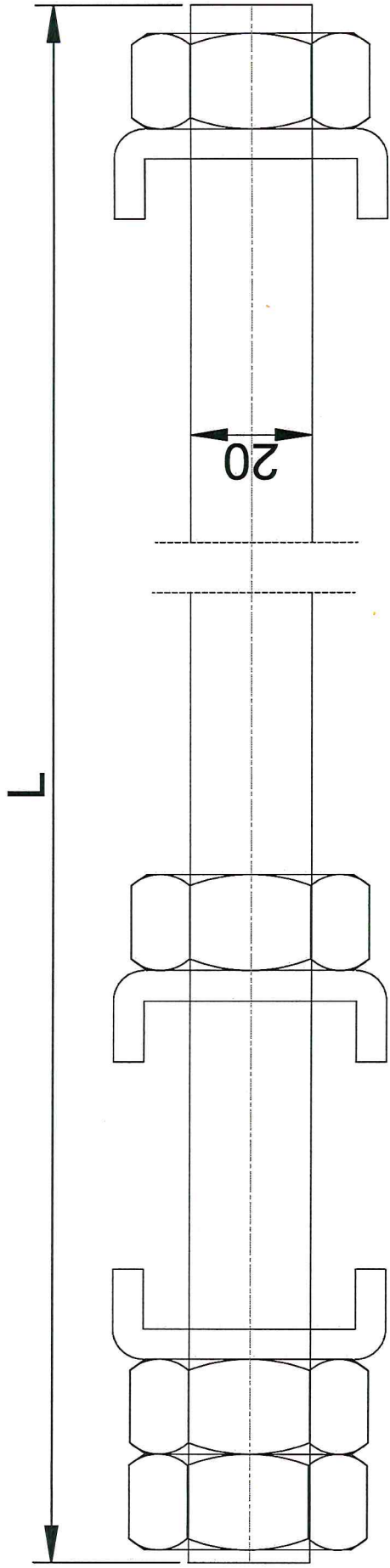


Zubehör:
 3 Stück U-washer M10
 4 Stück Mu M10

M10

Zeichnung Nr.:	PA2-tension rod M10	Allgemeine Toleranz +/- 0,5 mm	Material: Tension rod: A4-70
Drawing No.:	PA2-tension rod	Bewertungsgruppen nach ISO 6817 C	U-washer A4-S235, 1.4401, 1.4404
Projektname	PA2	100% Sichtprüfung/ Weid check	NACH DIN EN 10088-2
Projekt Nr.:	MP	Rev.Nr.:	 HAZ METAL FIXING SYSTEMS
gezeichnet:	MP	Datum:	
geprüft:	MP	10.08.2020	
		A	
		B	


Material: A4-70

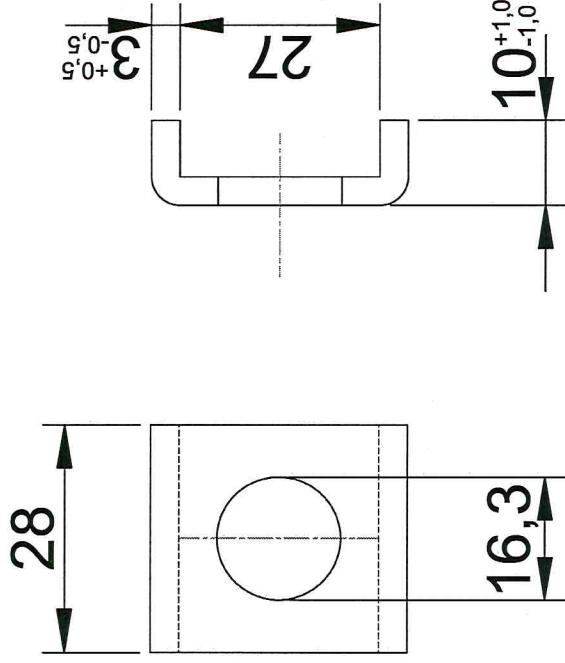
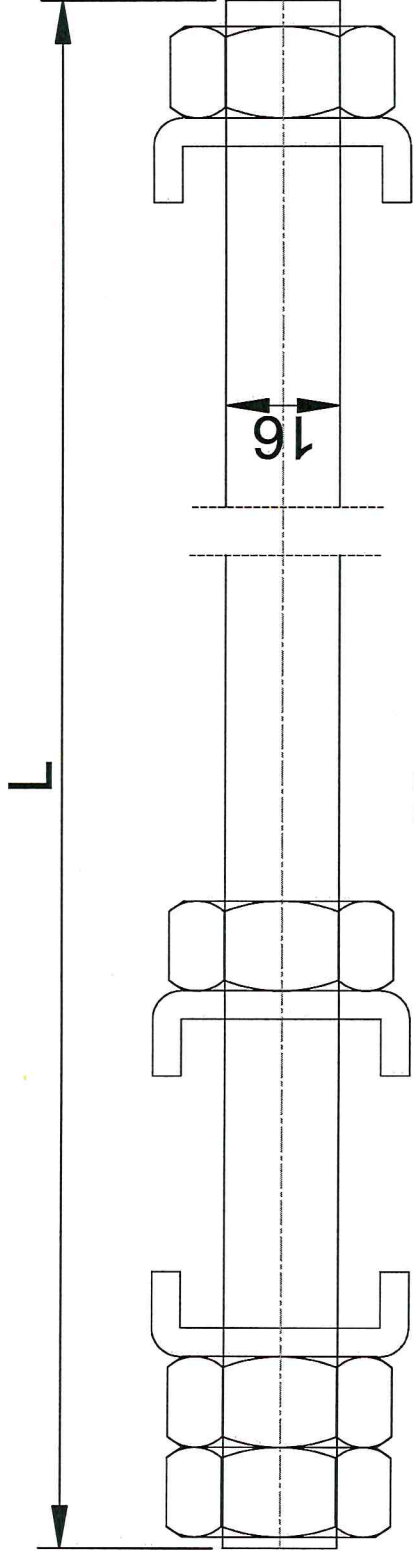


M20

Zubehör:
 3 Stück U-washer M20
 4 Stück Mu M20

Material: A4-70


Zeichnung Nr.:	PA2-tension rod M20	Allgemeine Toleranz +/- 0,5 mm	Material: Tension rod: A4-70
Drawing No.:	PA2-Tension rod	Bewertungsgruppen nach ISO 5817 C	U-washer A4-S235, 1.4401, 1.4404
Projektname	PA2	100% Sichtprüfung/ Weld check	NACH DIN EN 10088-2
Projekt Nr.:	MP	Rev.Nr.:	 HAZ METAL FIXING SYSTEMS
gezeichnet:	MP	Rev. Datum:	
geprüft:	MP	Datum:	
		10.08.2020	
		A	
		B	



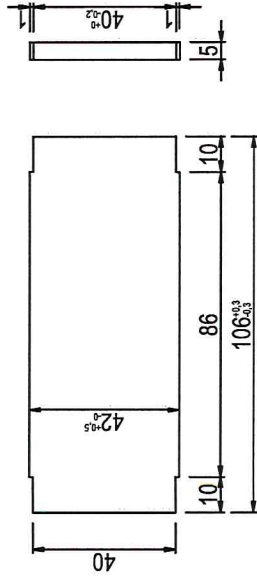
M16

Zubehör:
 3 Stück U-washer M16
 4 Stück Mu M16

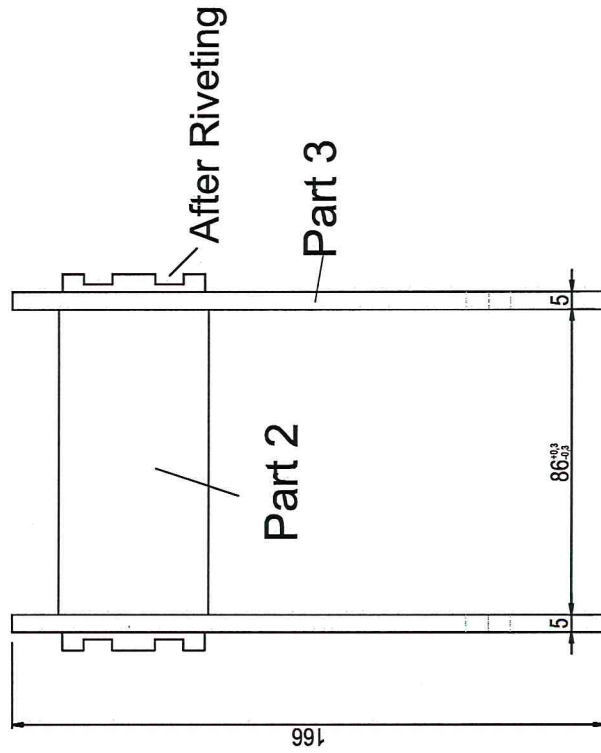
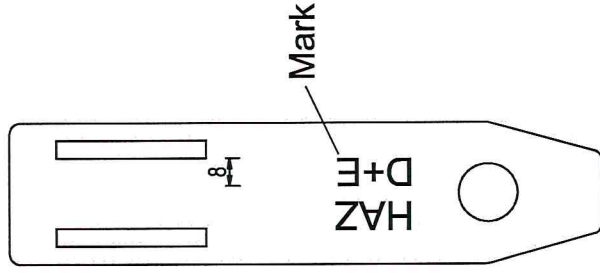
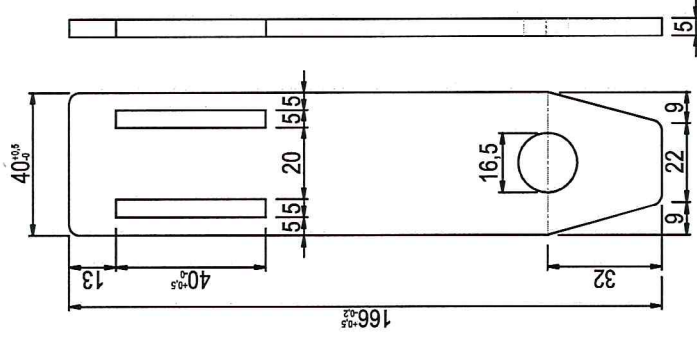
Material: A4-70

Zeichnung Nr.:	PA2-tension rod M16	Allgemeine Toleranz +/- 0,5 mm		Material: Tension rod: A4-70
Drawing No.:	PA2-Tension rod	Bewertungsgruppen nach ISO 5817 C		U-washer A4-S235, 1.4401, 1.4404
Projektname		100% Sichtprüfung/ Weld check		NACH DIN EN 10088-2
Projekt Nr.:	PA2	Rev.Nr.:		 HAZ METAL FIXING SYSTEMS
gezeichnet:	MP	Datum:	10.08.2020	
geprüft:	MP	Rev. Datum:		

Part 2 (2x)
without marks



Part 3 (2x)

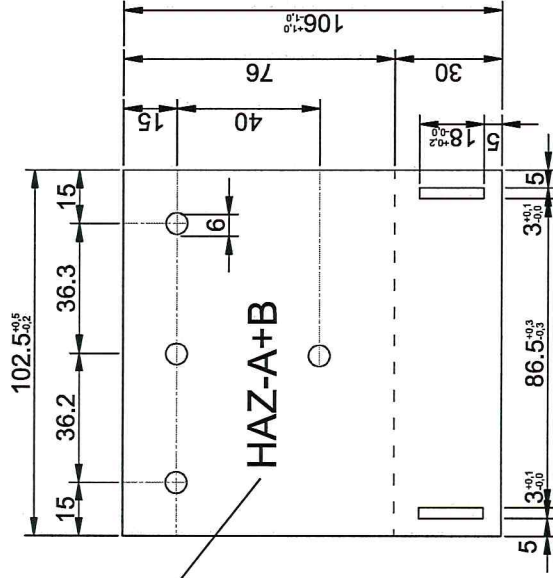


D+E

Zeichnung Nr.:	PA2-Joint-type D+E	Allgemeine Toleranz +/- 0,5 mm	Material:
Drawing No.:	PA2-Gelenk / Joint	Bewertungsgruppen nach ISO 5817 C	Duplex 1.4462, A5-S460
Projekt Nr.:	PA2-Joint	100% Sichtprüfung/ Weid check	NACH DIN EN 10088-2
gezeichnet:	MP	Rev.Nr.:	Rev. Datum:
geprüft:	MP	A	
		B	

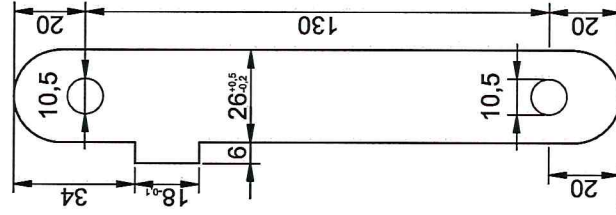


Teil 5-AISI 316

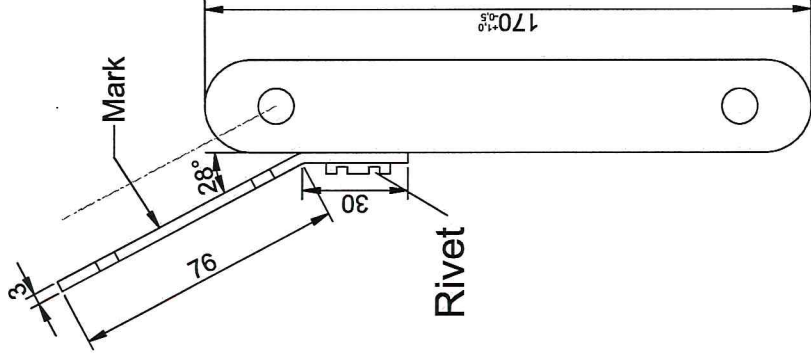


HAZ-A+B

Teil 4 - Duplex



Mark



Rivet

PA2-A+B

HAZ-Panel Anker PA2-Einbauteil-A+B
HAZ-Panel Anchor PA2-Lower part-A+B

Material:

Teil 4: Duplex: 1.4462, A5-S460

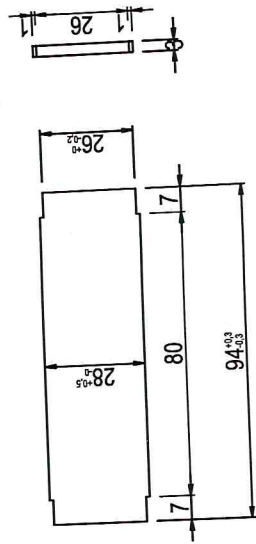
Teil 5: AISI 316/ A4-S235

Material: 1: Teil4: Duplex 1.4462
Teil 5: AISI 316, A4-S235
NACH DIN EN 10088-2

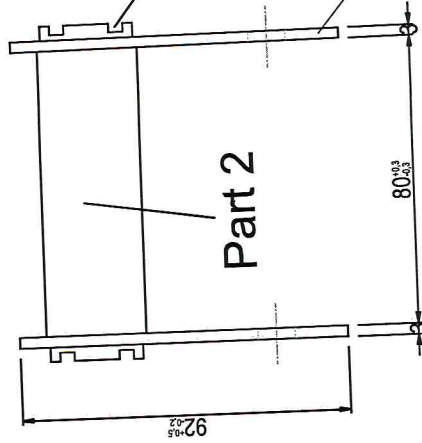
Zeichnung Nr.: PA2-LP-A+B		Allgemeine Toleranz +/- 0.5 mm	
Drawing No.:		Bewertungsgruppenach ISO 5817 C	
Projektname: PA2-Einbauteil / Lower part		100% Sichtprüfung/ Weld check	
Projekt Nr.:	PA2-LP	Rev.Nr.:	Rev. Datum:
gezeichnet:	MP	A	
geprüft:	MP	B	



Part 2 (2x)

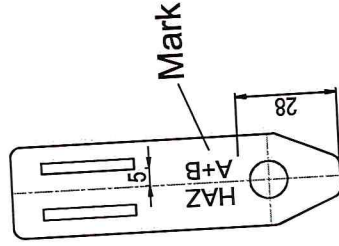
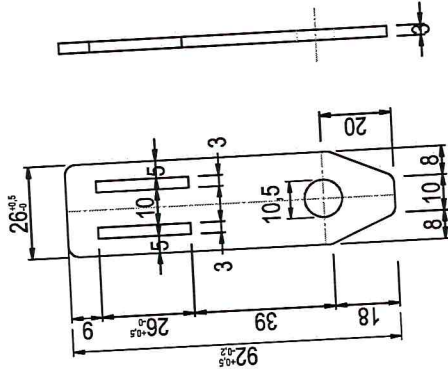


After riveting



Part 2

Part 3 (2x)



A+B

Material:
Duplex 1.4462, A5-S460
NACH DIN EN 10088-2

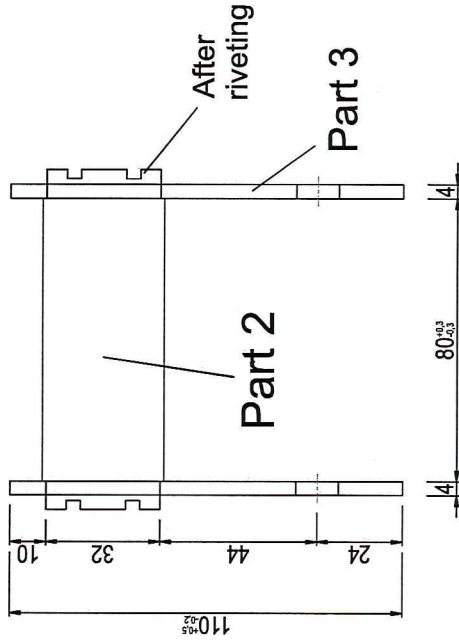
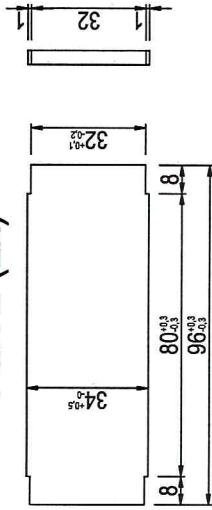


Allgemeine Toleranz ± 0.5 mm
Bewertungsgruppen nach ISO 5817 C
100% Sichtprüfung/Weld check

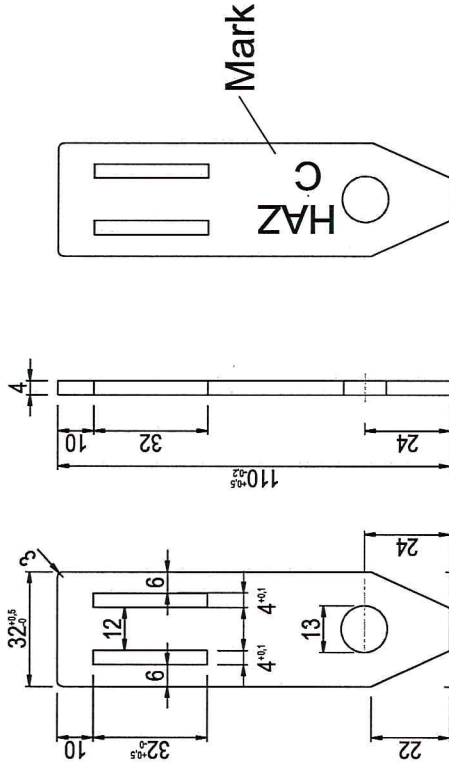
Rev. Nr. A
Rev. Datum:
Datum: 24.03.2021


Zeichnung Nr.:	PA2-Joint-type A+B
Drawing No.:	PA2-Gelenk / Joint
Projektname	PA2-Joint
Projekt Nr.:	MP
gezeichnet:	MP
geprüft:	MP

Part 2 (2x)

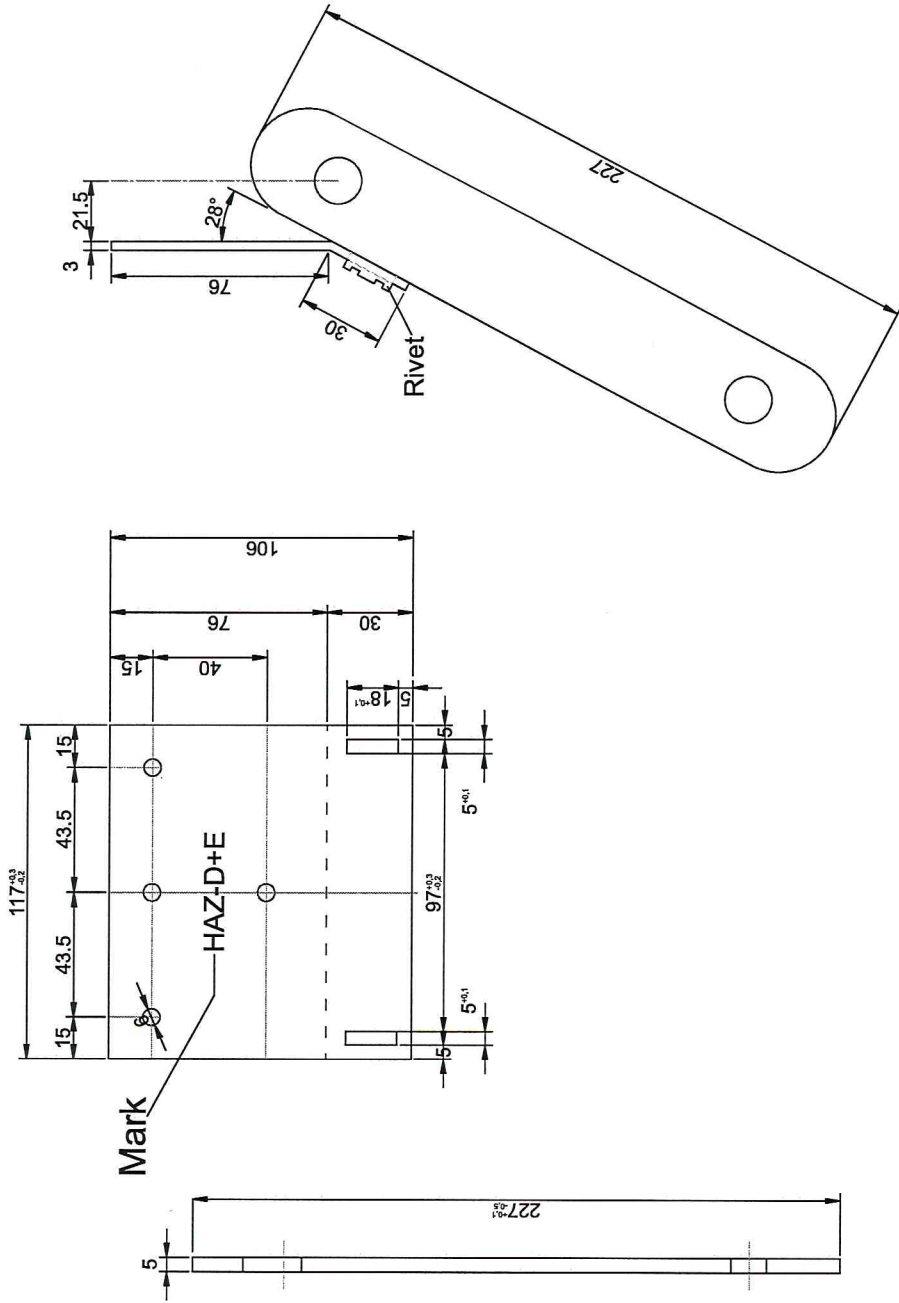


Part 3 (2x)

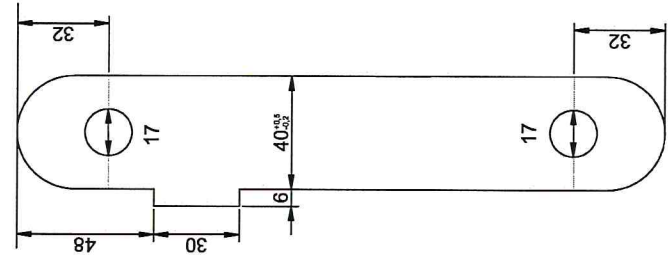


Zeichnung Nr.:	PA2-Joint-type C	Allgemeine Toleranz +/- 0,5 mm	Material:
Drawing No.:	PA2-Gelenk / Joint	Bewertungsgruppen nach ISO 5817 C	Duplex 1.4462, A5-S460
Projekt Nr.:	PA2-Joint	100% Sichtprüfung/ Weld check	NACH DIN EN 10088-2
gezeichnet:	MP	Rev.Nr.:	 HAZ METAL FIXING SYSTEMS
geprüft:	MP	Datum:	
		Rev. Datum:	
		A	
		B	

Teil 5 (A4/AISI 316)



Teil 4: Duplex



HAZ-Panel Anker PA2-Einbauteil-D+E
HAZ-Panel Anchor PA2-Lower part-D+E

PA2-D+E

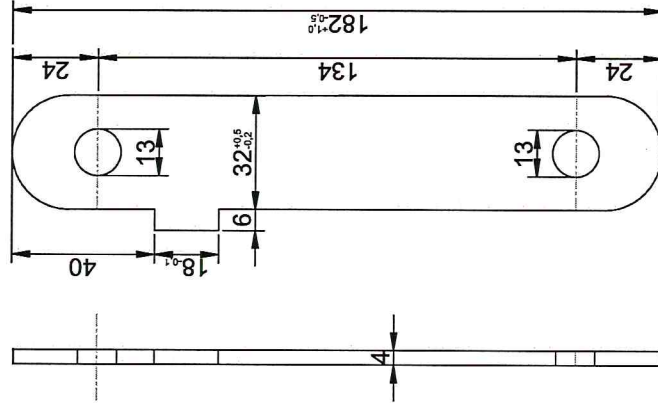
Material:
Teil 4: Duplex: 1.4462, A5-S460
Teil 5: AISI 316/ A4-S235

Material: 1: Teil4: Duplex 1.4462
Teil 5: AISI 316, A4-S235
NACH DIN EN 10088-2

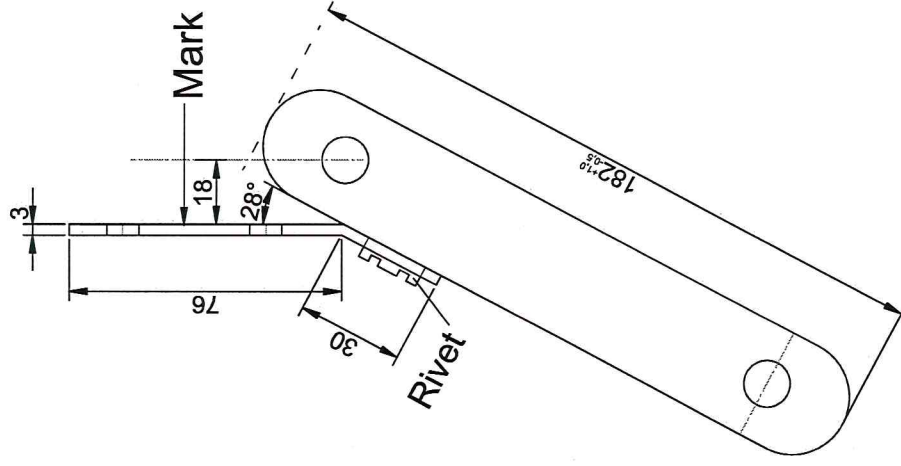
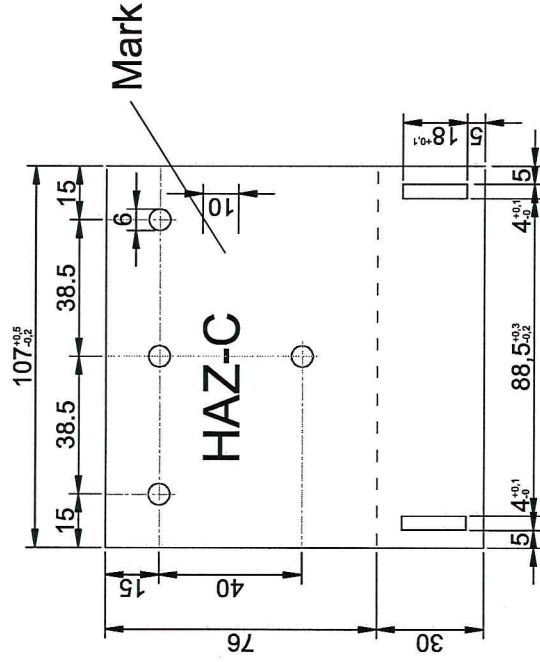


Zeichnung Nr.: Drawing No.:	PA2-LP-D+E	Allgemeine Toleranz +/- 0,5 mm Bewertungsgruppen nach ISO 5817 C 100% Sichtprüfung/ Weid check	Rev. Datum:
	PA2-Einbauteil / Lower part		
Projekt Nr.:	PA2-LP	Rev. Nr.:	A
gezeichnet:	MP	Datum:	24.03.2021
geprüft:	MP		B

Teil 4 - Duplex
without mark



Teil 5 - AISI 316



HAZ-Panel Anker PA2-Einbauteil-C
HAZ-Panel Anchor PA2-Lower part-C

PA2-C

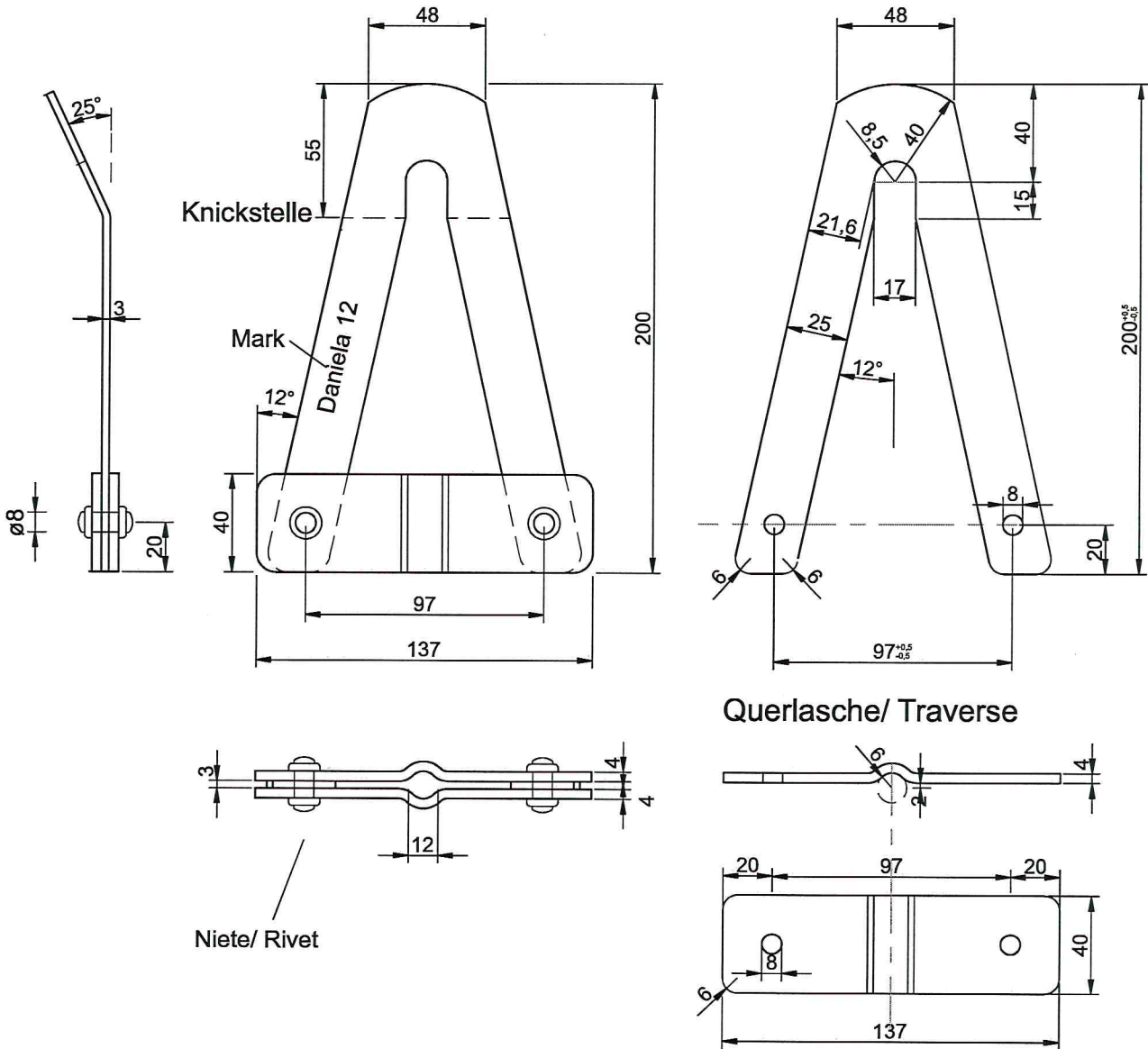
Material:
Teil 4: Duplex: 1.4462, A5-S460
Teil 5: AISI 316/A4-S235

Material: 1: Teil4: Duplex 1.4462
Teil 5: AISI 316, A4-S235
NACH DIN EN 10088-2



Zeichnung Nr.:	PA2-LP-C	Allgemeine Toleranz +/- 0,5 mm Bewertungsgruppen nach ISO 5817 C 100% Sichtprüfung/ Weld check	Rev. Datum:	
Projektname	PA2-Einbauteil / Lower part		Rev. Nr.	A
Projekt Nr.:	PA2-LP	Datum:	24.03.2021	B
gezeichnet:	MP			
geprüft:	MP			

Oberteil Daniela - 12



Zubehör:
 1 Stück Laserbügel Daniela-12
 2 Stück Querlaschen 137/40/4
 2 Stück Nieten/ Rivet ø8

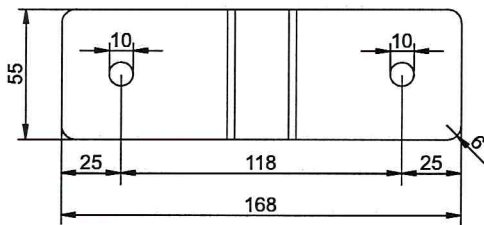
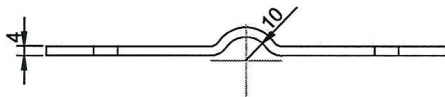
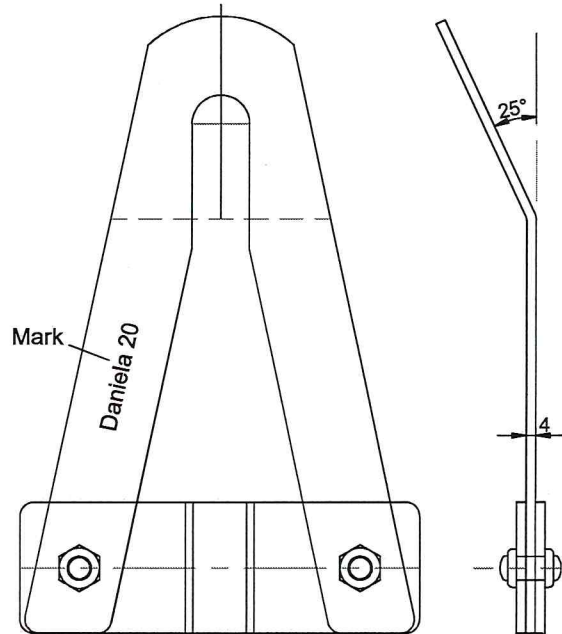
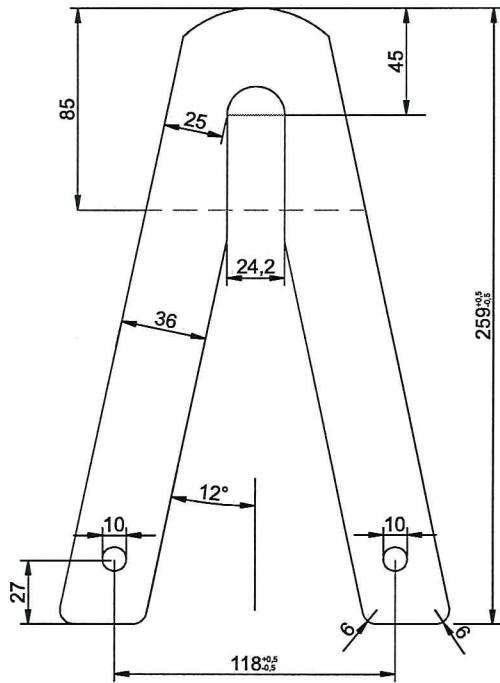
Material: A5-S460 Duplex-1.4462
 Niete / Rivet: A4-70

Duplex

Zeichnung Nr.: Drawing No.:	Daniela-12	Allgemeine Toleranz +/- 0,5 mm Bewertungsgruppenach ISO 5817 C 100% Sichtprüfung/ Weld check			Material: A5-S460, 1.4462 Niete/ Rivet AISI 316, A4-70 NACH DIN EN 10088-2
Projektname	Oberteil / Upper part				
Projekt Nr.:	Daniela	Datum:	Rev.Nr.	Rev. Datum:	
gezeichnet:	MP	10.08.2020	A		
geprüft:	MP		B		



Oberteil Daniela - 20



Zubehör:
 1 Stück Laserbügel Daniela-M20, A5-460-Duplex
 2 Stück Querlaschen 168/55/4, A5-460-Duplex
 2 Stück Nieten/ Rivet $\varnothing 10$

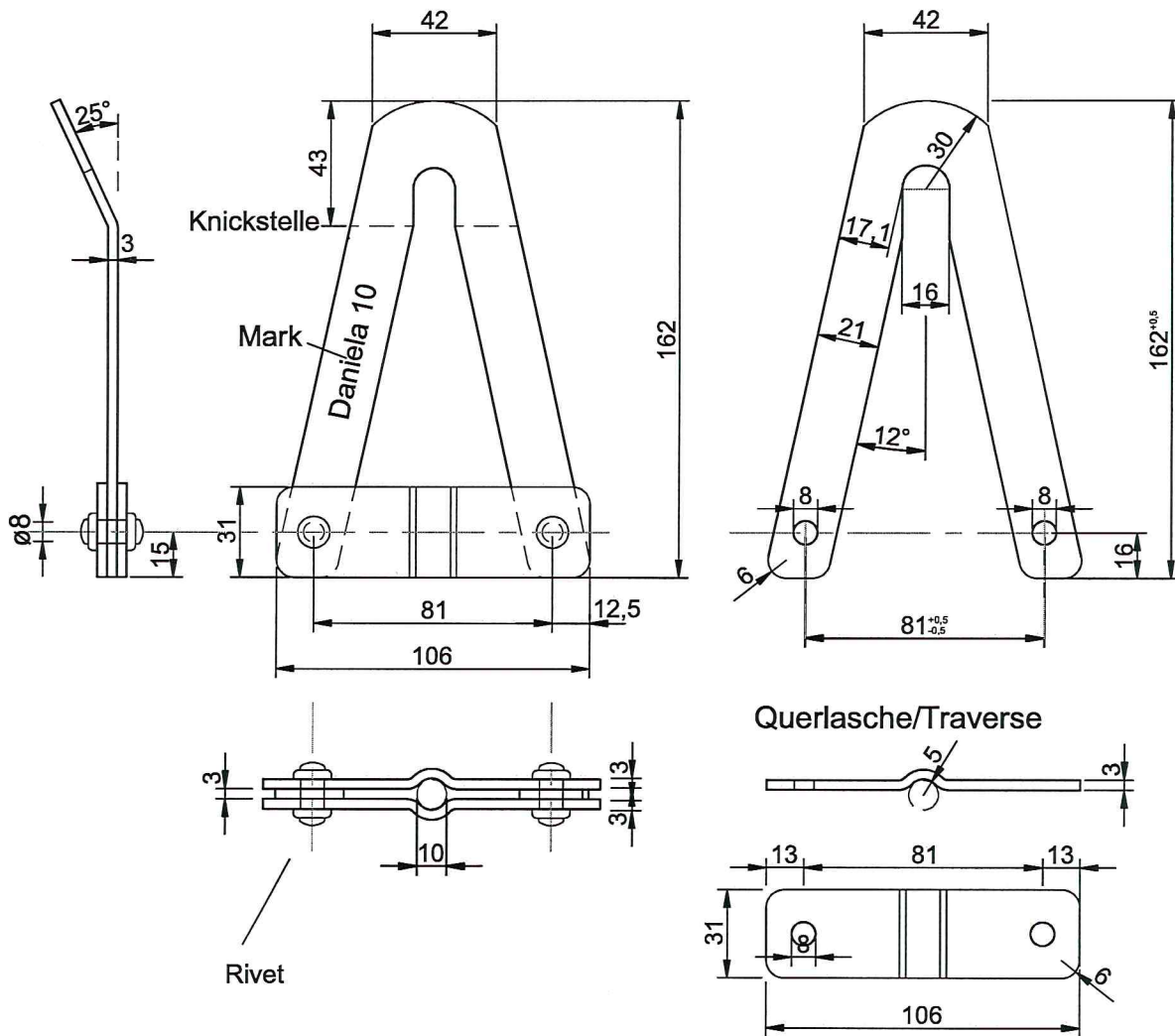
Material: A5-S460, 1.4462
 Niete: A4-70

Duplex

Zeichnung Nr.: Drawing No.:	Daniela-20	Allgemeine Toleranz +/- 0,5 mm Bewertungsgruppenach ISO 5817 C 100% Sichtprüfung/ Weld check			Material: A5-S460, 1.4462 Niete/ Rivet AISI 316, A4-70 NACH DIN EN 10088-2
Projektname	Oberteil / Upper part				
Projekt Nr.:	Daniela	Datum:	Rev.Nr.	Rev. Datum:	
gezeichnet:	MP	10.08.2020	A		
geprüft:	MP		B		



Oberteil Daniela - 10



Zubehör:

- 1 Stück Laserbügel Daniela-M10, A5-460
- 2 Stück Querlaschen 106,2/31/3, A5-460
- 2 Stück Nieten/ Rivet ø8

Material: A5-S460 , 1.4462

Niete/ Rivet: A4-70

Duplex

Zeichnung Nr.: Drawing No.:	Daniela-10	Allgemeine Toleranz +/- 0,5 mm Bewertungsgruppenach ISO 5817 C 100% Sichtprüfung/ Weld check		Material: A5-S460, 1.4462 Niete/ Rivet AISI 316, A4-70 NACH DIN EN 10088-2
Projektname	Oberteil / Upper part		Rev.Nr.	Rev. Datum:
Projekt Nr.:	Daniela	Datum:	A	
gezeichnet:	MP	10.08.2020	B	
geprüft:	MP			

