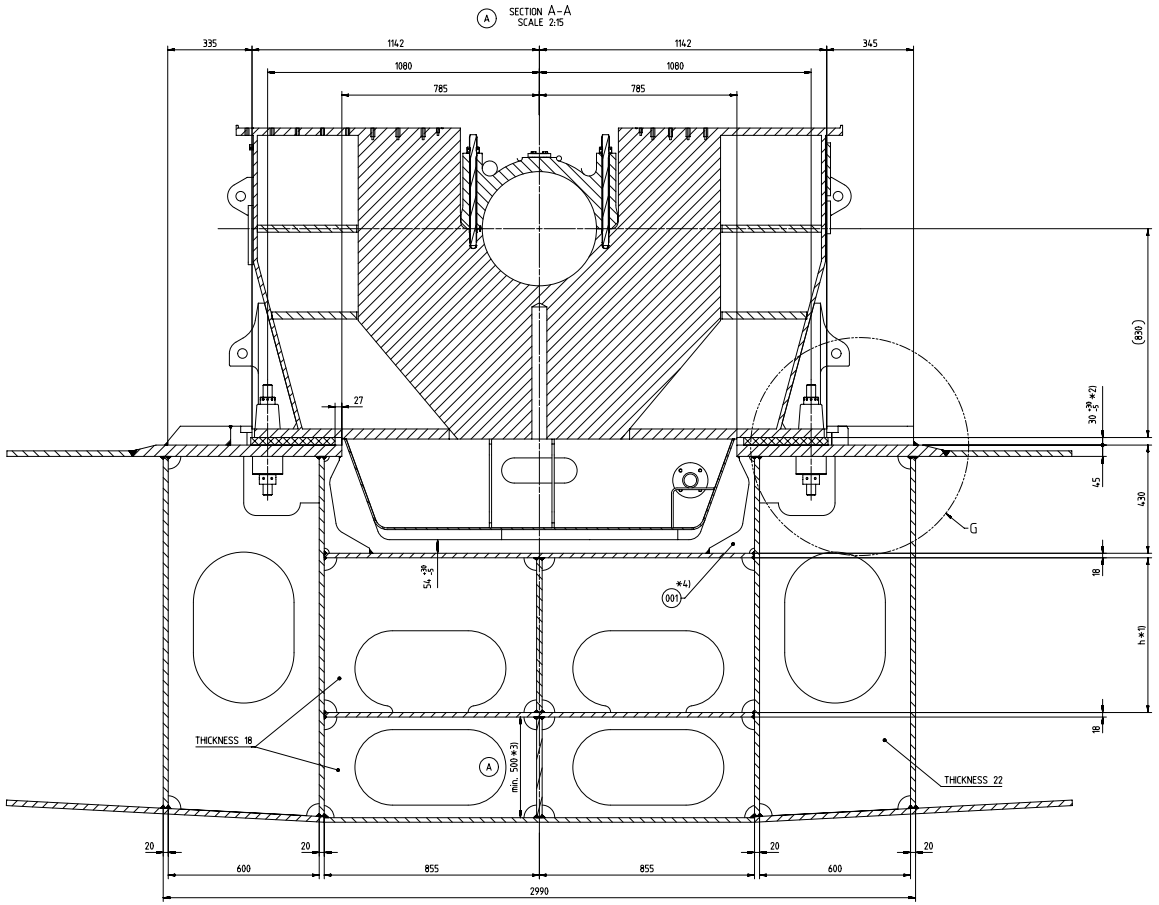
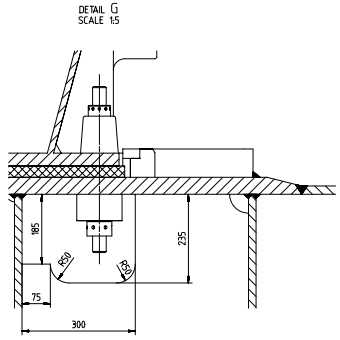
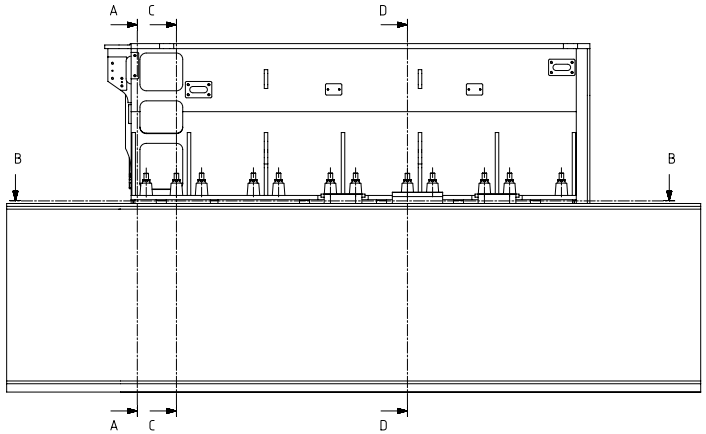
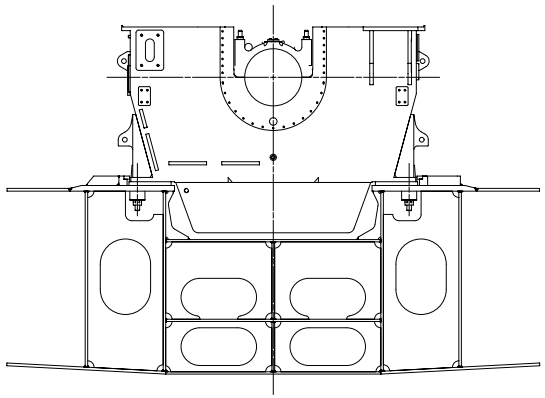








Remarks:

*1) HEIGHT TO BE DETERMINED BY SHIPYARD. FOR DIMENSIONS AND LAYOUT OF LUB. OIL DRAIN TANK AND DRAINS REFER TO DESIGN GROUP 9722

*2) CHOCK THICKNESS 30^{-30}_{-5} mm

- FINAL CHOCK THICKNESS TO BE DETERMINED BY SHIPYARD

*3) FINAL DISTANCES ACCORDING TO APPROPRIATE RULES

*4) QUANTITY DEPENDING ON SHIPYARD DESIGN

PAAD246504	5 Cyl	Execution with side stopper welded type
PAAD246505	5 Cyl	Execution with side stopper flame-cut type

Net Weight 500	Net Weight 444	Pos.	Material ID	Material Name / Dimension, Dia	Drawing or Standard	Basic Material Standard	Weight GR/NET
1	1	018	107.4.12.130.500	FITTING INSTRUCTIONS	107.4.12.130		0,001
4	4	017	107.4.11.233.001	WEDGE 4.5x25x350	107.4.11.233	S235JR.G2 SS400	3,0
2	-	016	107.4.11.245.001	ENGINE SIDE STOPPER 325xhx300	107.4.11.245	S235JRG2/SS400	27,0
2	-	015	107.4.11.244.001	ENGINE SIDE STOPPER 325xhx300	107.4.11.244	S235JRG2/SS400	27,0
-	2	014	PAAD060492	ENGINE SIDE STOPPER	DAAD020526		18,0
-	2	013	PAAD060498	ENGINE SIDE STOPPER 30xhx250	DAAD020531		18,0
18	18	012	PAAD024777	PLUG	DAAD011552	Rubber750	0,001
6	6	011	107.4.10.829.001	JOINT DISC	107.4.10.829	Rubber750	0,002
1	1	010	107.367.119.001	SEALING PIECE	107.367.119		0,001
24	24	009	107.4.10.789.001	SPHERICAL ROUND NUT M36	107.4.10.789	34CrMo4,SCM 435	0,85
18	18	008	107.4.10.787.001	BUSH	107.4.10.787	34CrMo4,SCM 435	5,5
18	18	007	107.4.10.788.001	CONICAL SOCKET	107.4.10.788	34CrMo4,SCM 435	5,5
6	6	006	107.4.10.786.001	CONICAL SOCKET	107.4.10.786	34CrMo4,SCM 435	4,8
24	24	005	107.4.10.785.001	ELASTIC BOLT M36	107.4.10.785	34CrMo4,SCM 435	3,1
6	6	004	107.4.10.782.001	BUSH	107.4.10.782	34CrMo4, SCM 435	7,6
24	24	003	107.380.159.004	ROUND NUT M36	107.380.159	W-PA-42CrMo-QT	0,36
1	1	002	107.398.394.500	EPOXY RESIN	107.398.394		0,001
1	1	001	PAAD246868	RIB	DAAD084268	W-FU-325-N	3,9

Quantity PER ENGINE | BOM NO | Material ID | Material Name / Dimension, Dia | Drawing or Standard | Basic Material Material Standard | Weight GR/NET

PAAD245695 PAAD245696 for No.

Material_ID

Main Dim.

G-Code XXXXX

Standard ISO, JIS

H

Supersed.

Supersed. | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | Drawn date

△ PAAD092787 09.04.2020

Product W5X35-B

ENGINE SEATING/FOUNDATION

Units mm kg | NX | Basic Material | Net Weight

SURFACE PROTECTION SEE GROUP 9744

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Made 19.03.2020 dhi021 DH Kim | Checked 03.01.2017 www008 Wang | Appd 18.01.2017 mhu019 Hug

Scale 1:15 | Size A0 | Page 1/3 | Material ID

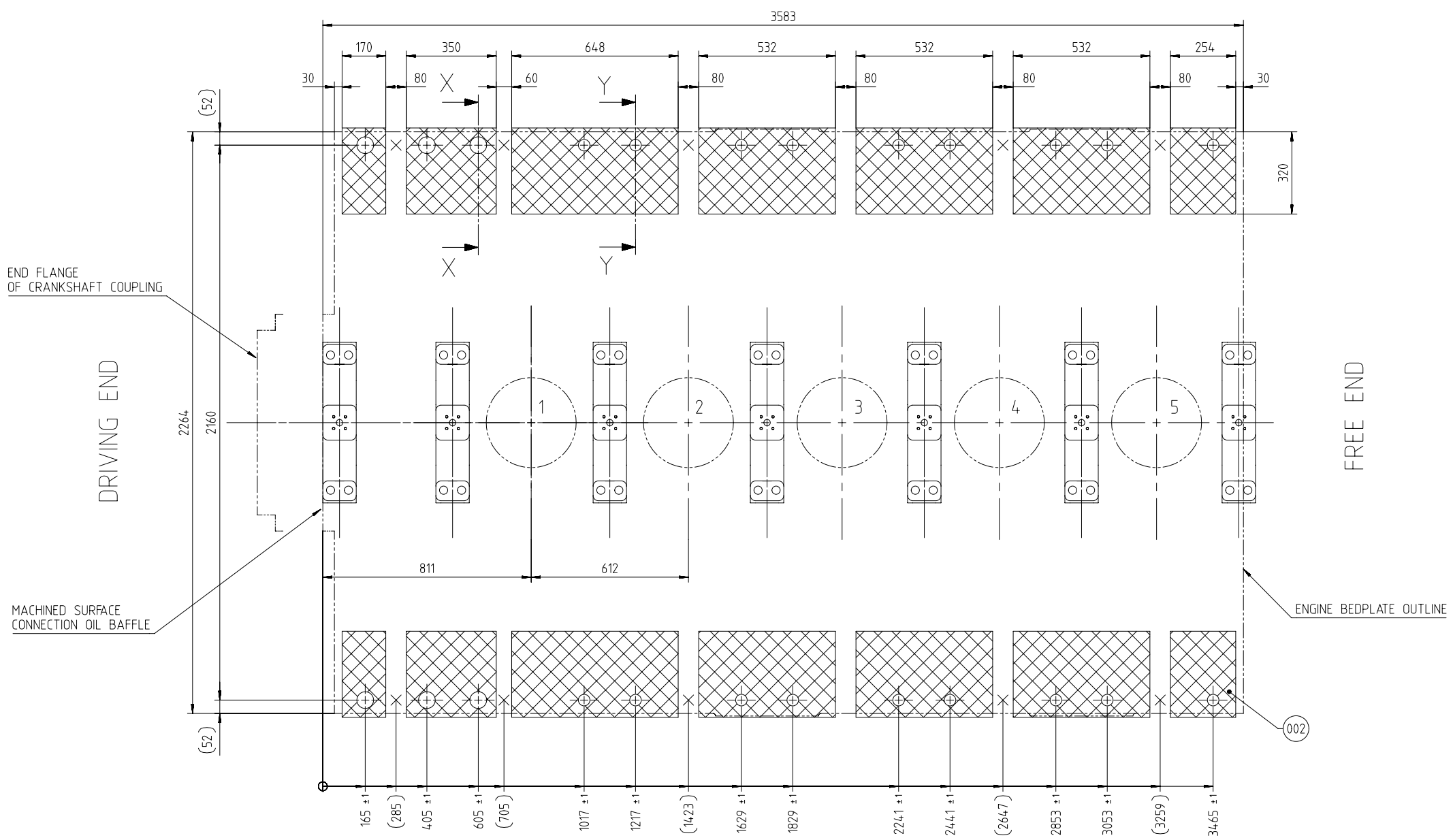
Design Group 9710 | Drawing ID DAAD084090 | Rev. A

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(A) B-B

CHOCKING AND DRILLING PLAN FOR FOUNDATION BOLTS

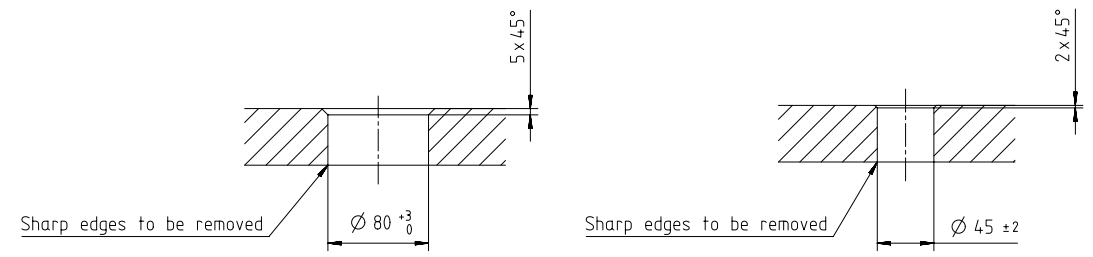


SECTION X-X ⟲ 90°
SCALE 1:3

Hole for thrust sleeve
in foundation

(A) SECTION Y-Y ⟲ 90°
SCALE 1:3

Hole for elastic bolt
in foundation



(A) Table: Design values

No. of cylinders	No. of thrust sleeves	Total no. of bolt holes	
5	6	24	
Proposed dimension of epoxy resin chock *1)			
Chock length per side	Chocking area	Chock volume requirements *2)	
(mm)	(cm²)	(dm³)	
		min.	max.
3018	20791	52	125

(A)

*1) Proposed dimensions are based on the following assumptions:
- The maximum permissible mean static pressure is 4.5 N/mm² *3)
- The dead-weight loading from the engine (incl. net engine mass, vibration damper, flywheel, water and oil) results in a mean static pressure below 0.8 N/mm²
- Engine fastener loading is in line with fully tightened bolts (in accordance with fitting instruction).

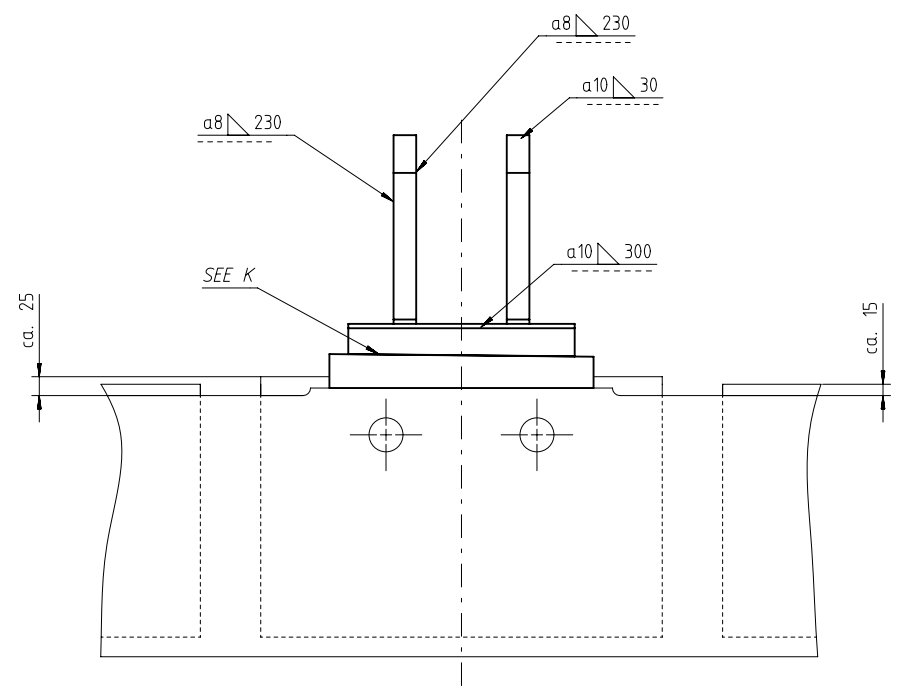
*2) Referring to a standardized chock thickness of 25 mm to 60 mm

*3) The verification of the maximum permissible mean static pressure for the epoxy resin chock is to be conducted in conjunction with the chock manufacture during the early stages of the project. This allows the shipyard to determine the final chock dimensions to achieve the relevant class approval.

*4) with X marked positions represent jacking screws

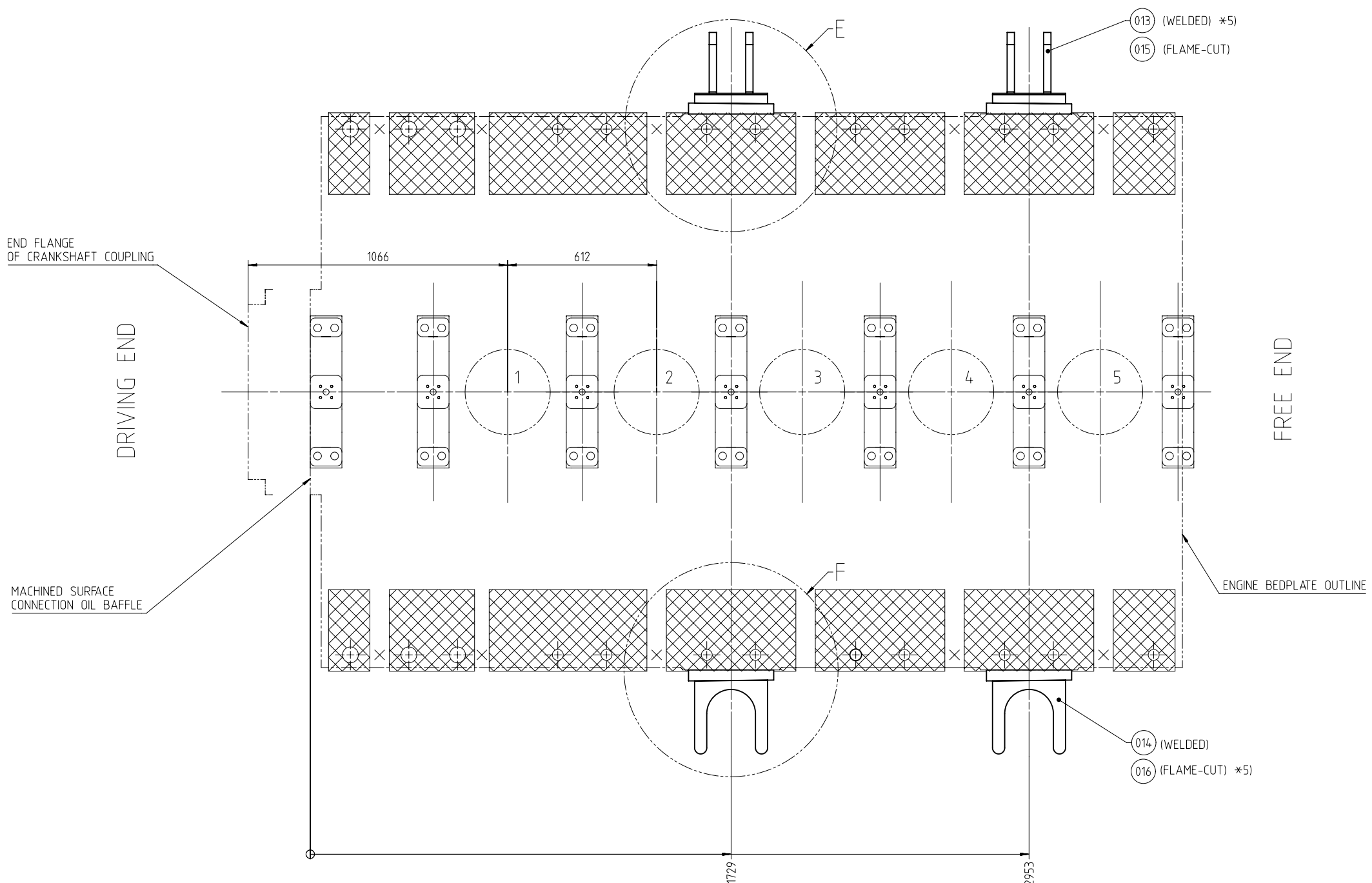
*5) Execution shown on drawing

(A) DETAIL E
SCALE 1:5

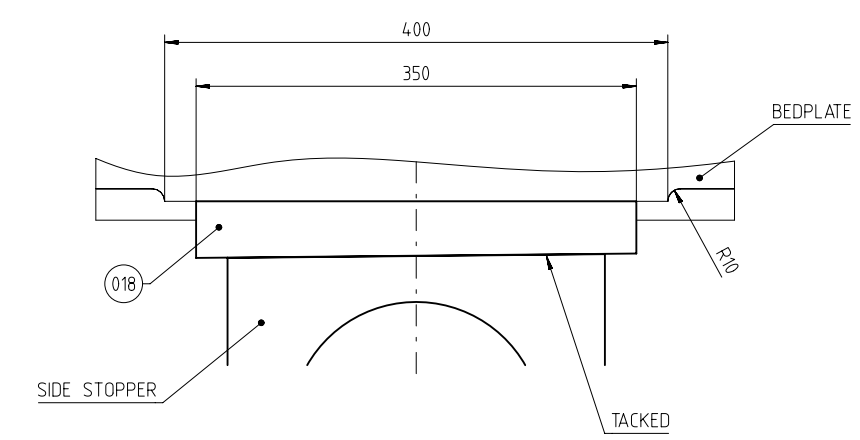


(A) B-B

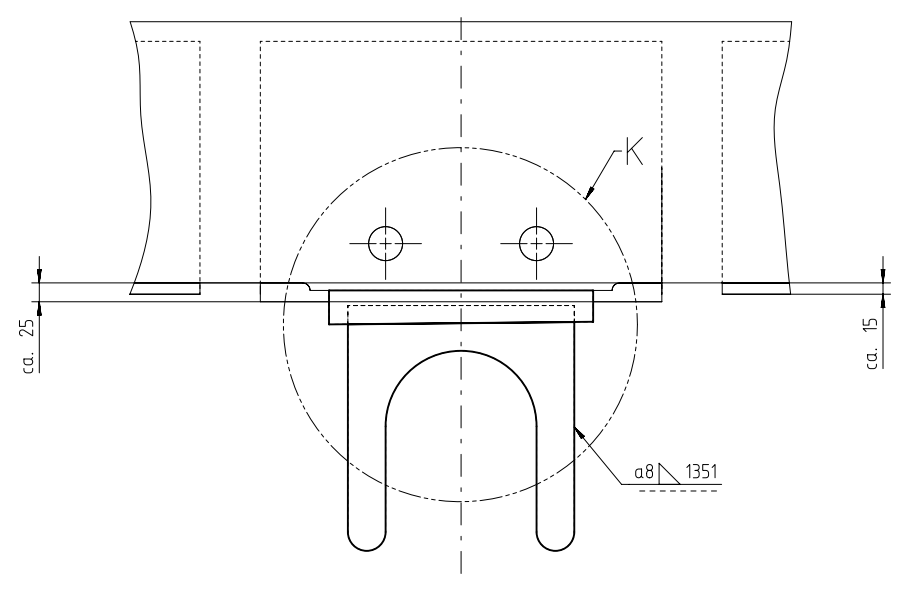
ENGINE SIDE STOPPER ARRANGEMENT WITH FLAME-CUT OR WELDED TYPE



DETAIL K
SCALE 1:3



(A) DETAIL F
SCALE 1:5



Free space for lic.					Q-Code XXXXX		Main Drw. H
					Standard ISO; JIS		
Modif.	(A) EAAD092787	09.04.2020	Number / Drawn date	Number / Drawn date	Number / Drawn date		
	Number	Drawn date					
WIN GD Winterthur Gas & Diesel	Product W5X35-B	ENGINE SEATING/FOUNDATION					
Units mm kg	NX	Basic Material			Net Weight		
SURFACE PROTECTION SEE GROUP 0344	Made 19.03.2020 dki021 DH Kim	Scale 1:10	Size A0	Page 2/3	Material ID		
TOLERANCING PRINCIPLE ISO8015	Chkd 03.01.2017 wwa008 Wang	Design Group 9710	Drawing ID DAAD084090		Rev. A		
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd 18.01.2017 mhu019 Hug						

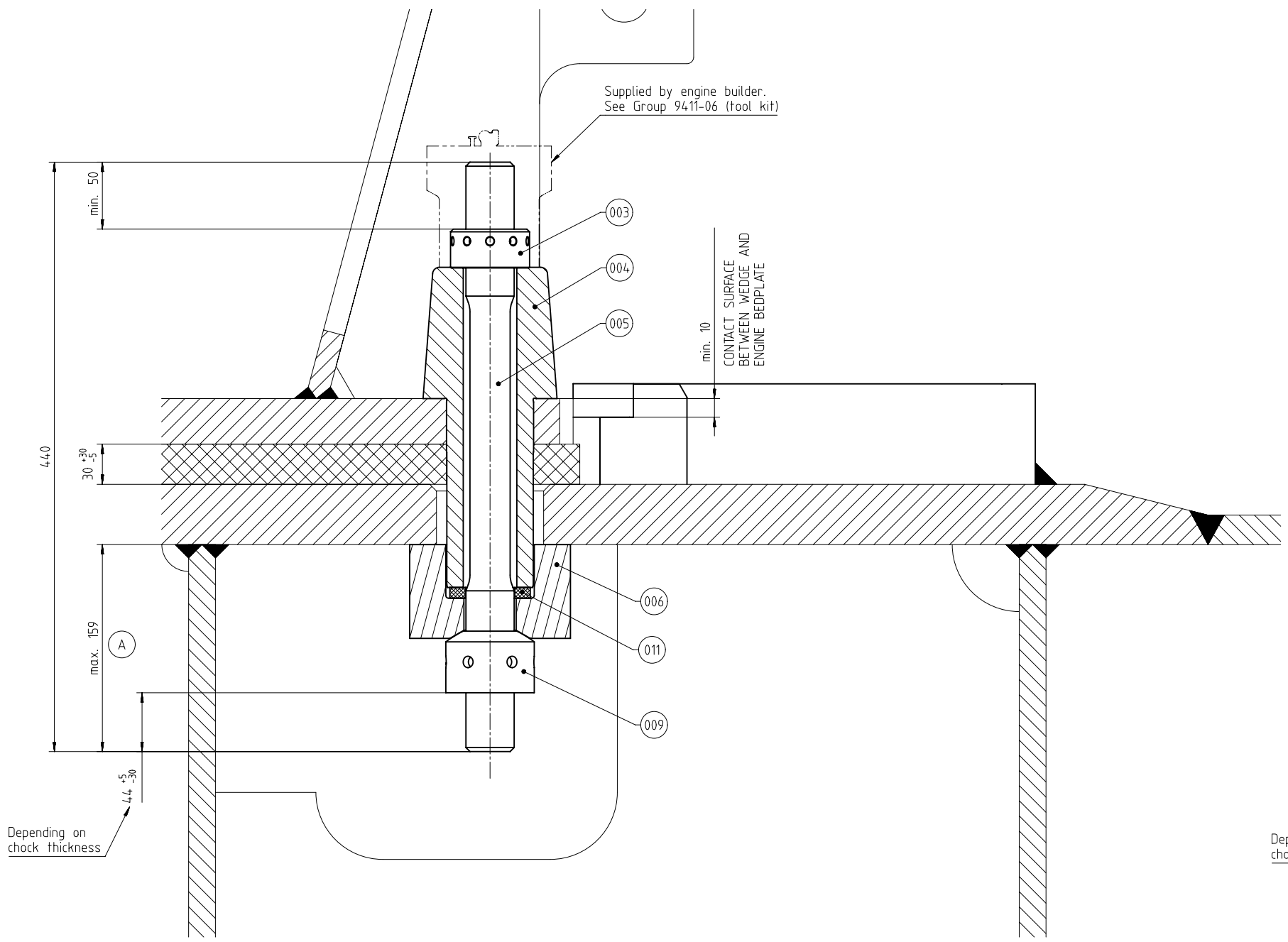
Approved

DID - DIMENSIONAL DRAWING - Confidential

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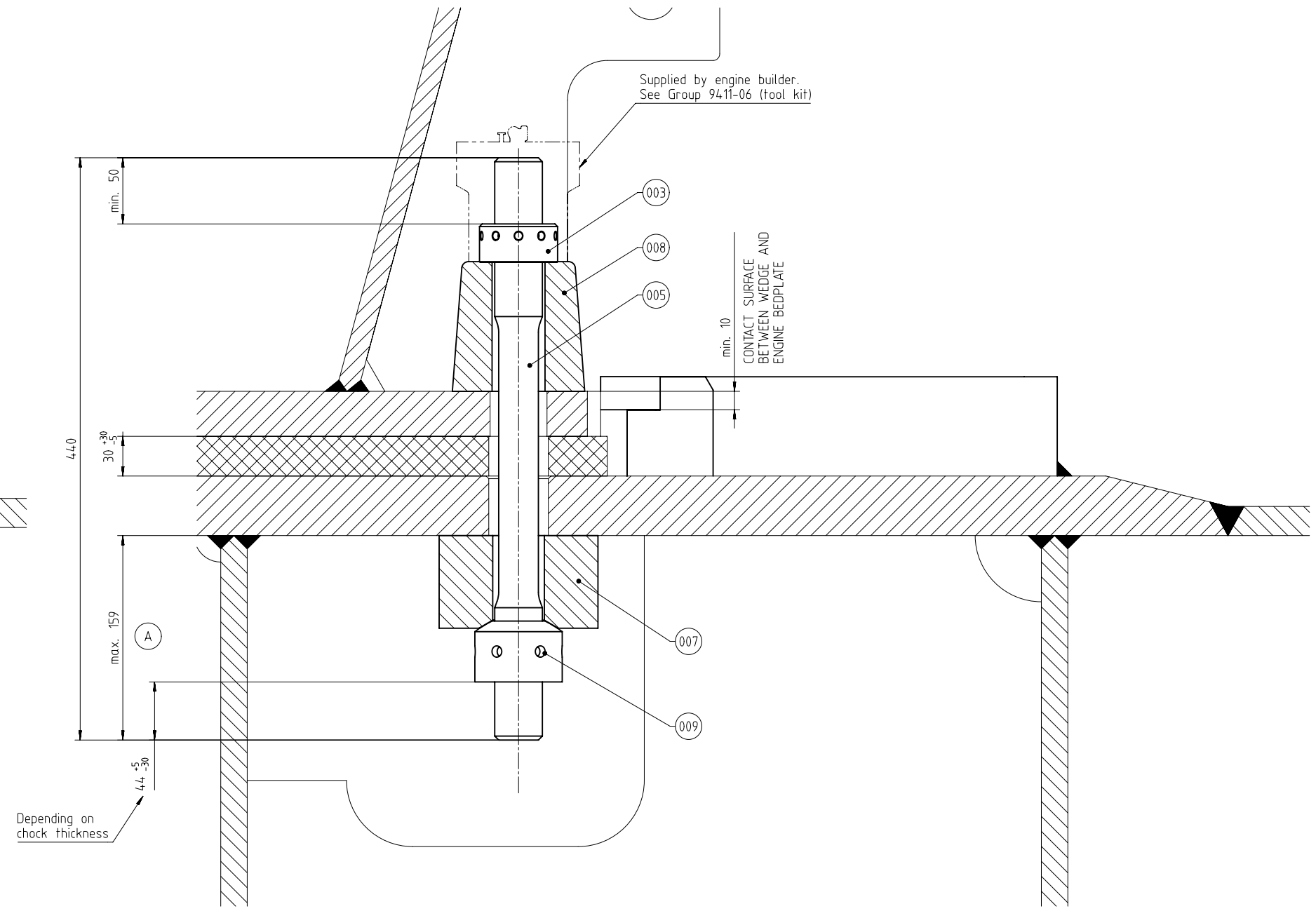
C-C

Arrangement after pouring the epoxy resin chock



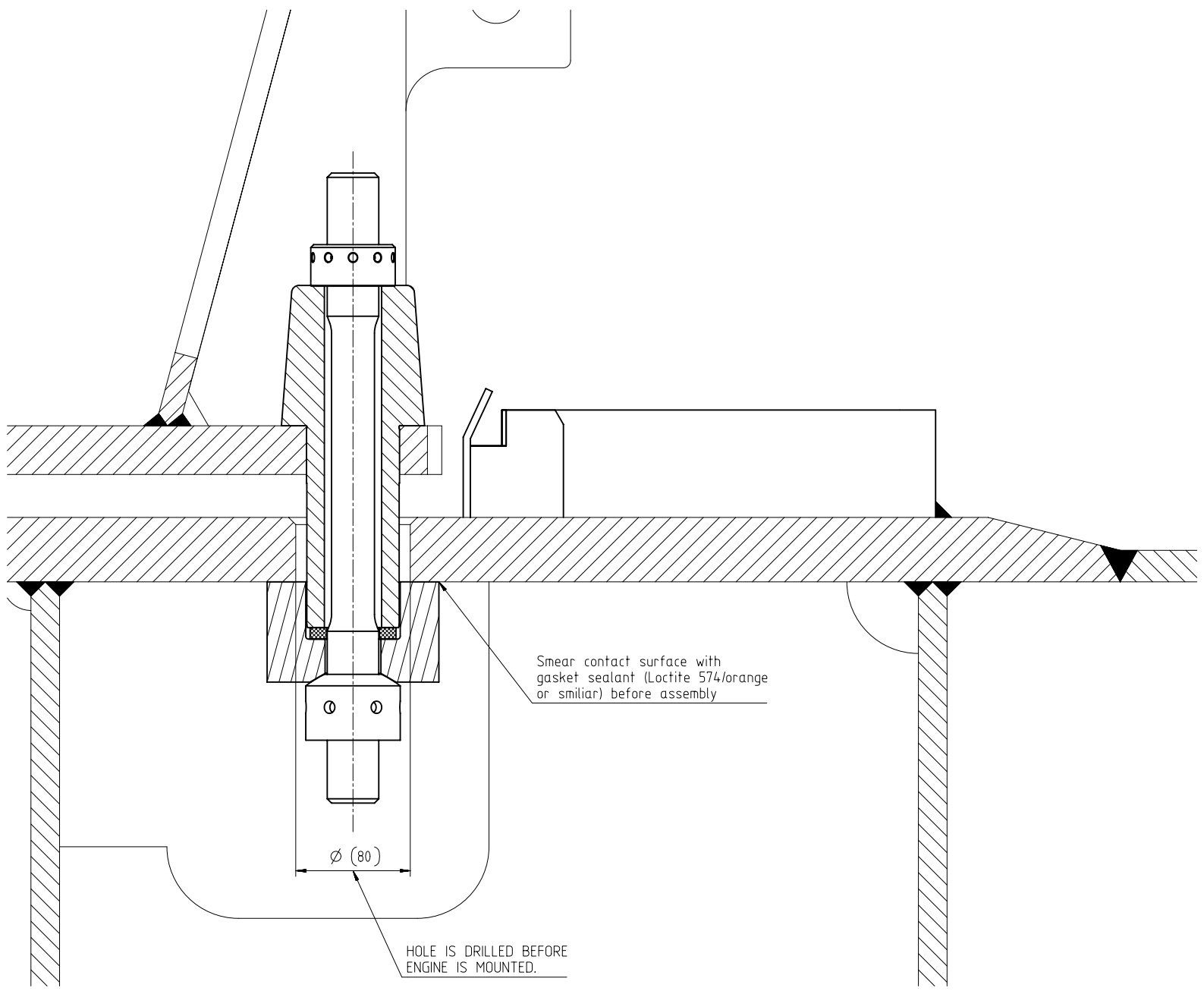
D-D

Arrangement after pouring the epoxy resin chock



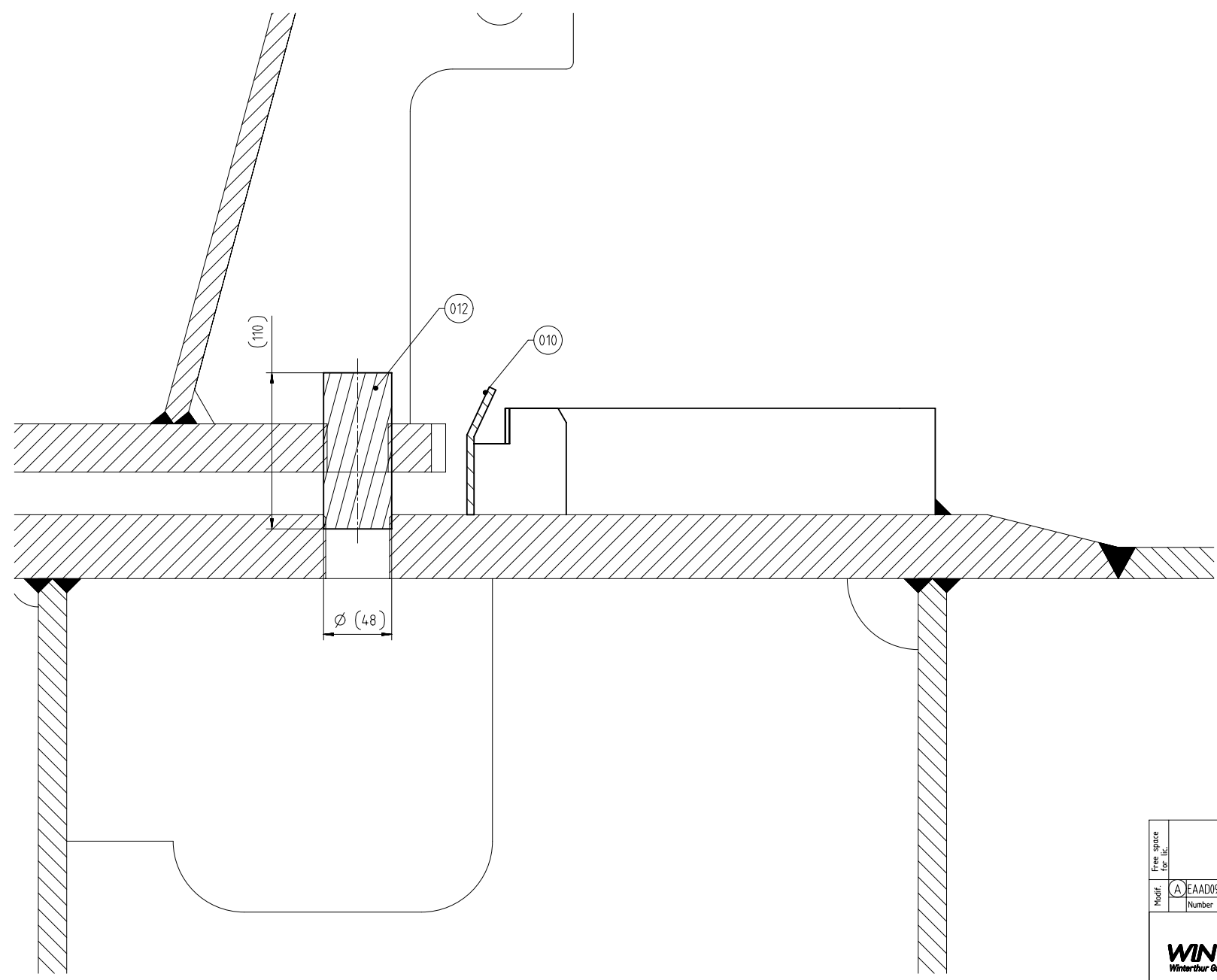
C-C

Arrangement before pouring the epoxy resin chock



D-D

Arrangement before pouring the epoxy resin chock

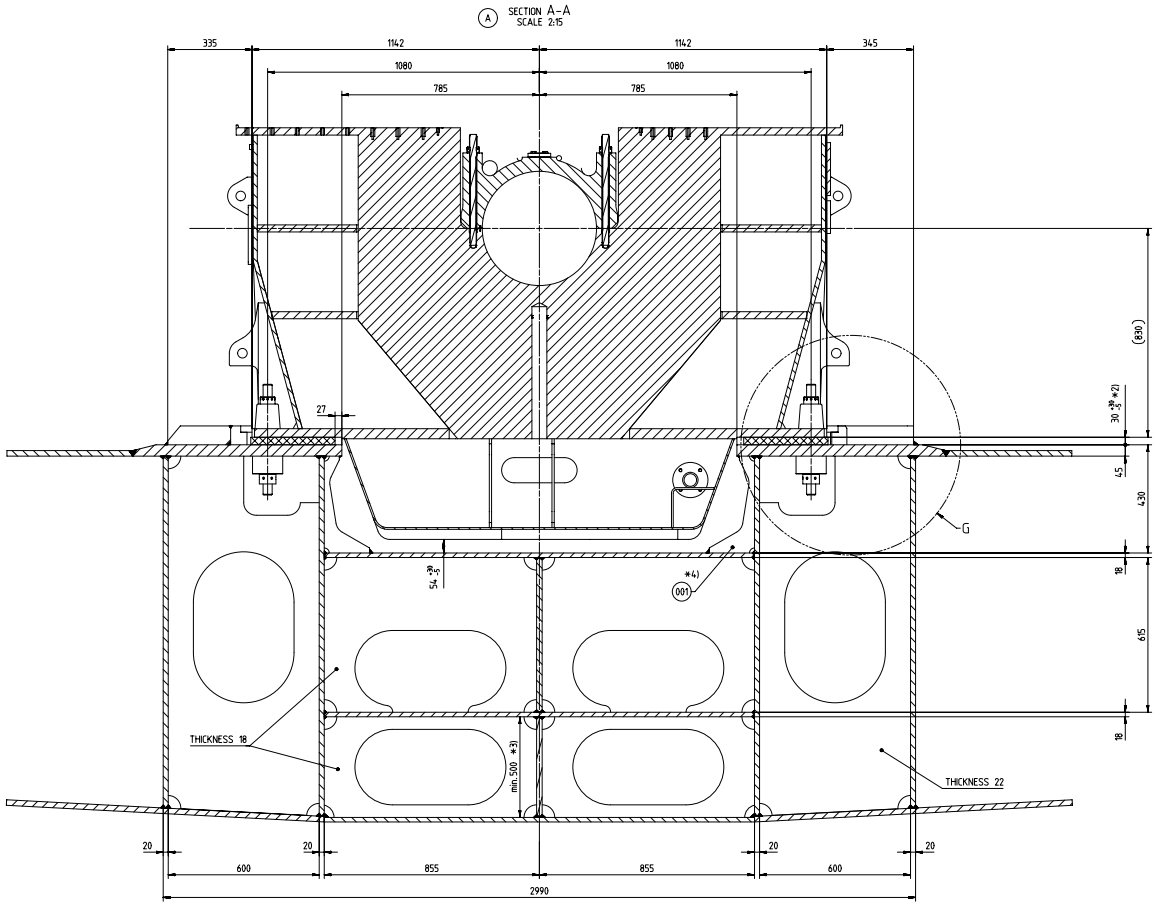


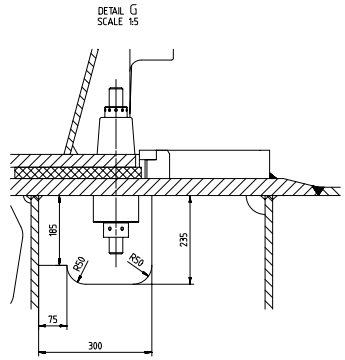
SURFACE PROTECTION SEE GROUP 0344	Q-Code XXXXX	Standard ISO; JIS	Main Drw. H
TOLERANCING PRINCIPLE ISO8015	Modif. A EAAD092787 (Number) 09.04.2020 (Drawn date)		
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Product W5X35-B	ENGINE SEATING/FOUNDATION	WIN GD Winterthur Gas & Diesel
Units mm kg	NX	Basic Material	Net Weight
Made 19.03.2020 dki021 DH Kim	Scale 1:2	Size A0	Page 3/3
Chkd 03.01.2017 wwa008 Wang	Design Group 9710	Material ID	
Appd 18.01.2017 mhu019 Hug	Drawing ID DAAD084090	Rev. A	

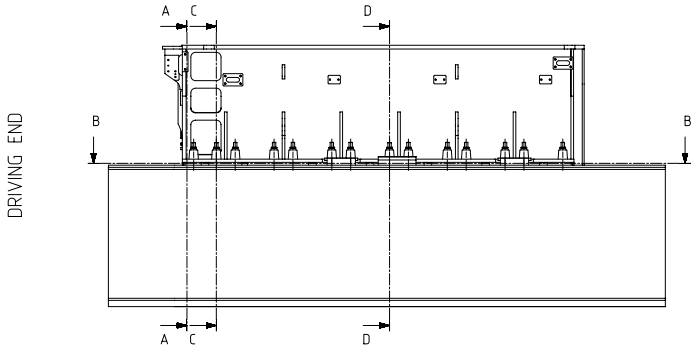
Approved

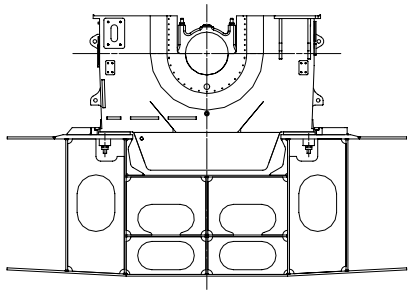
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Remarks:

*1) HEIGHT TO BE DETERMINED BY SHIPYARD. FOR DIMENSIONS AND LAYOUT OF LUB. OIL DRAIN TANK AND DRAINS REFER TO DESIGN GROUP 9722

*2) CHOCK THICKNESS 30^{+30}_{-5} mm

- FINAL CHOCK THICKNESS TO BE DETERMINED BY SHIPYARD

*3) FINAL DISTANCES ACCORDING TO APPROPRIATE RULES

*4) QUANTITY DEPENDING ON SHIPYARD DESIGN

PAAD246499	6 Cyl	Execution with side stopper welded type
PAAD246500	6 Cyl	Execution with side stopper flame-cut type

Net Weight 5x2	Net Weight 5x1	RED NO	Material ID	Material Name / Dimension, Qty	Drawing or Standard	Basic Material Material Standard	Weight GR/NET
1	1	018	107.4.12.130.500	FITTING INSTRUCTIONS	107.4.12.130		0,001
4	4	017	107.4.11.233.001	WEDGE 4.5x25x350	107.4.11.233	S235JR.G2 SS400	3,0
2	-	016	107.4.11.245.001	ENGINE SIDE STOPPER 325xhx300	107.4.11.245	S235JRG2,SS400	27,0
2	-	015	107.4.11.244.001	ENGINE SIDE STOPPER 325xhx300	107.4.11.244	S235JRG2,SS400	27,0
-	2	014	PAAD060492	ENGINE SIDE STOPPER 30xhx250	DAAD020526		18,0
-	2	013	PAAD060498	ENGINE SIDE STOPPER 30xhx250	DAAD020531		18,0
22	22	012	PAAD024777	PLUG	DAAD011552	Rubber750	0,001
6	6	011	107.4.10.829.001	JOINT DISC	107.4.10.829	Rubber750	0,002
1	1	010	107.367.119.001	SEALING PIECE	107.367.119		0,001
28	28	009	107.4.10.789.001	SPHERICAL ROUND NUT M36	107.4.10.789	34CrMo4,SCM 435	0,85
22	22	008	107.4.10.787.001	BUSH	107.4.10.787	34CrMo4,SCM 435	5,5
22	22	007	107.4.10.788.001	CONICAL SOCKET	107.4.10.788	34CrMo4,SCM 435	5,5
6	6	006	107.4.10.786.001	CONICAL SOCKET	107.4.10.786	34CrMo4,SCM 435	4,8
28	28	005	107.4.10.785.001	ELASTIC BOLT M36	107.4.10.785	34CrMo4,SCM 435	3,1
6	6	004	107.4.10.782.001	BUSH	107.4.10.782	34CrMo4, SCM 435	7,6
28	28	003	107.380.159.004	ROUND NUT M36	107.380.159	W-PA-42CrMo-QT	0,36
1	1	002	107.398.394.500	EPOXY RESIN	107.398.394		0,001
1	1	001	PAAD246868	RIB	DAAD084268	W-FU-325-N	3,9

Quantity PER ENGINE

PAAD246500 / PAAD246499 — Material ID — Name — Dwg. No.

Main Dim. H

Standard ISO; JIS

Index	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	AAD092787	08.04.2020						

WinGD Winterthur Gas & Diesel

Product W6X35-B

ENGINE SEATING/FOUNDATION

Units	mm kg	NX	Basic Material	Net Weight
Made	06.12.2016 dhi021 DH.Kim	Scale 1:20	Size A0	Page 1/3
Chkd	03.01.2017 www008 Wang	Design Group 9710	Drawing ID DAAD084080	Rev. A
Appd	18.01.2017 mlu019 Hug			

SURFACE PROTECTION SEE GROUP 9744

TOLERANCING PRINCIPLE ISO8015

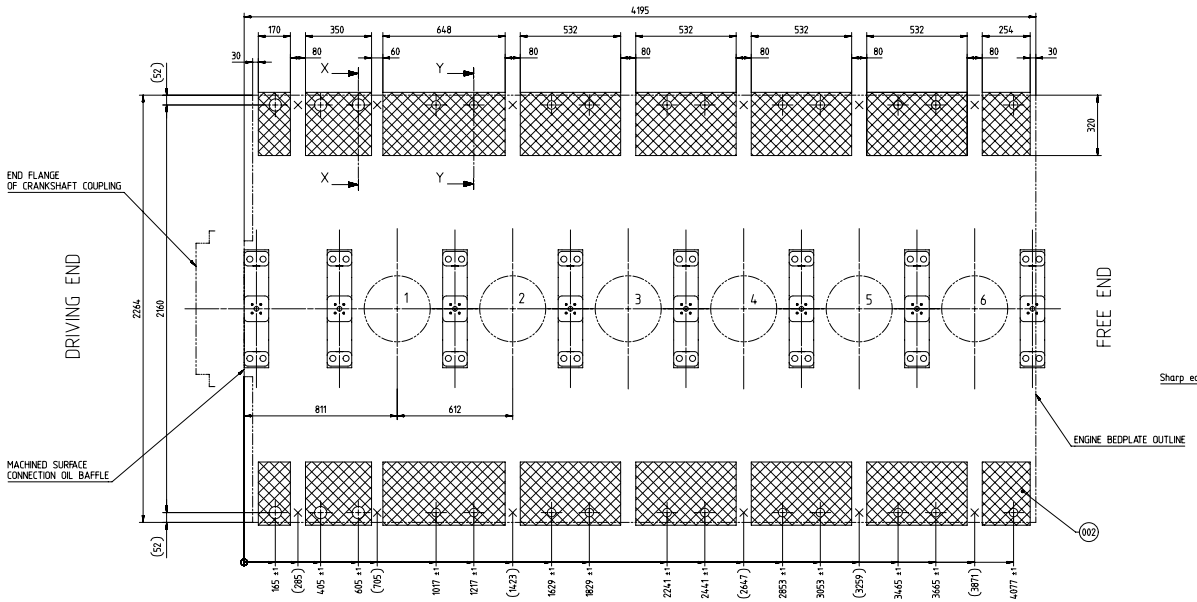
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

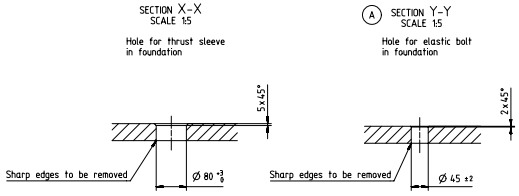
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(A) B-B

CHOCKING AND DRILLING PLAN FOR FOUNDATION BOLTS





(A) Table: Design values

No. of cylinders	No. of thrust sleeves	Total no. of bolt holes
6	6	28

Proposed dimension of epoxy resin chock *1)

Chock length per side	Chocking area	Chock volume requirements *2)	
(mm)	(cm²)	(dm³)	
3560	24499	min.	max.
		61	147

(A) *1) Proposed dimensions are based on the following assumptions:
- The maximum permissible mean static pressure is 4.5 N/mm² *3)
- The dead-weight loading from the engine (incl. net engine mass, vibration damper, flywheel, water and oil) results in a mean static pressure below 0.8 N/mm²
- Engine fastener loading is in line with fully tightened bolts (in accordance with fitting instruction).

*2) Referring to a standardized chock thickness of 25 mm to 60 mm

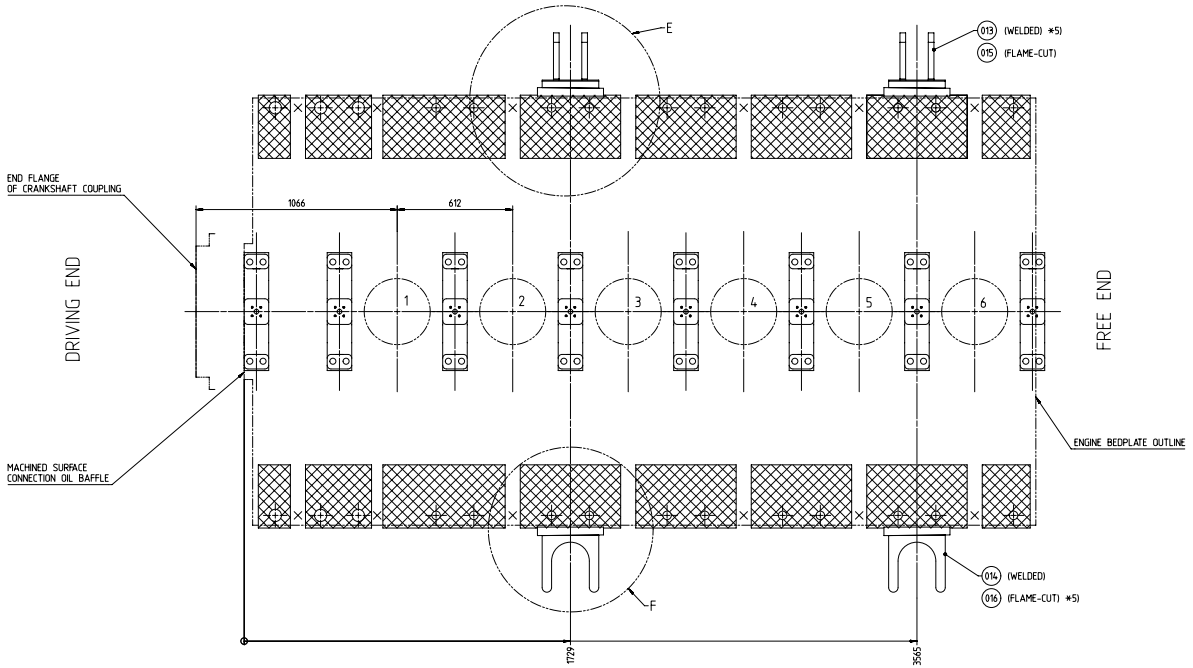
*3) The verification of the maximum permissible mean static pressure for the epoxy resin chock is to be conducted in conjunction with the chock manufacture during the early stages of the project. This allows the shipyard to determine the final chock dimensions to achieve the relevant class approval.

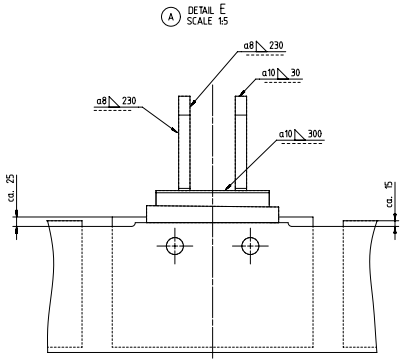
*4) with X marked positions represent jacking screws

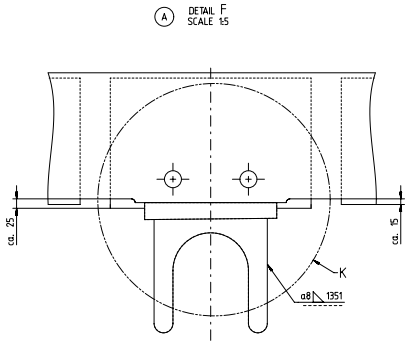
*5) Execution shown on drawing

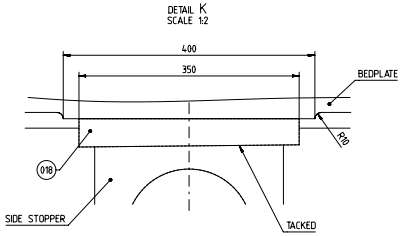
(A) B-B

ENGINE SIDE STOPPER ARRANGEMENT WITH FLAME-CUT OR WELDED TYPE









WIN GD
Winterthur Gas & Diesel

Repl. by									G-Code: XXXXX	Style Dr.: H	
Repl. for									Standard: ISO, JIS		
Mod.	A	EAAD092787	08.04.2020								
		Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date		

Project: W6X35-B

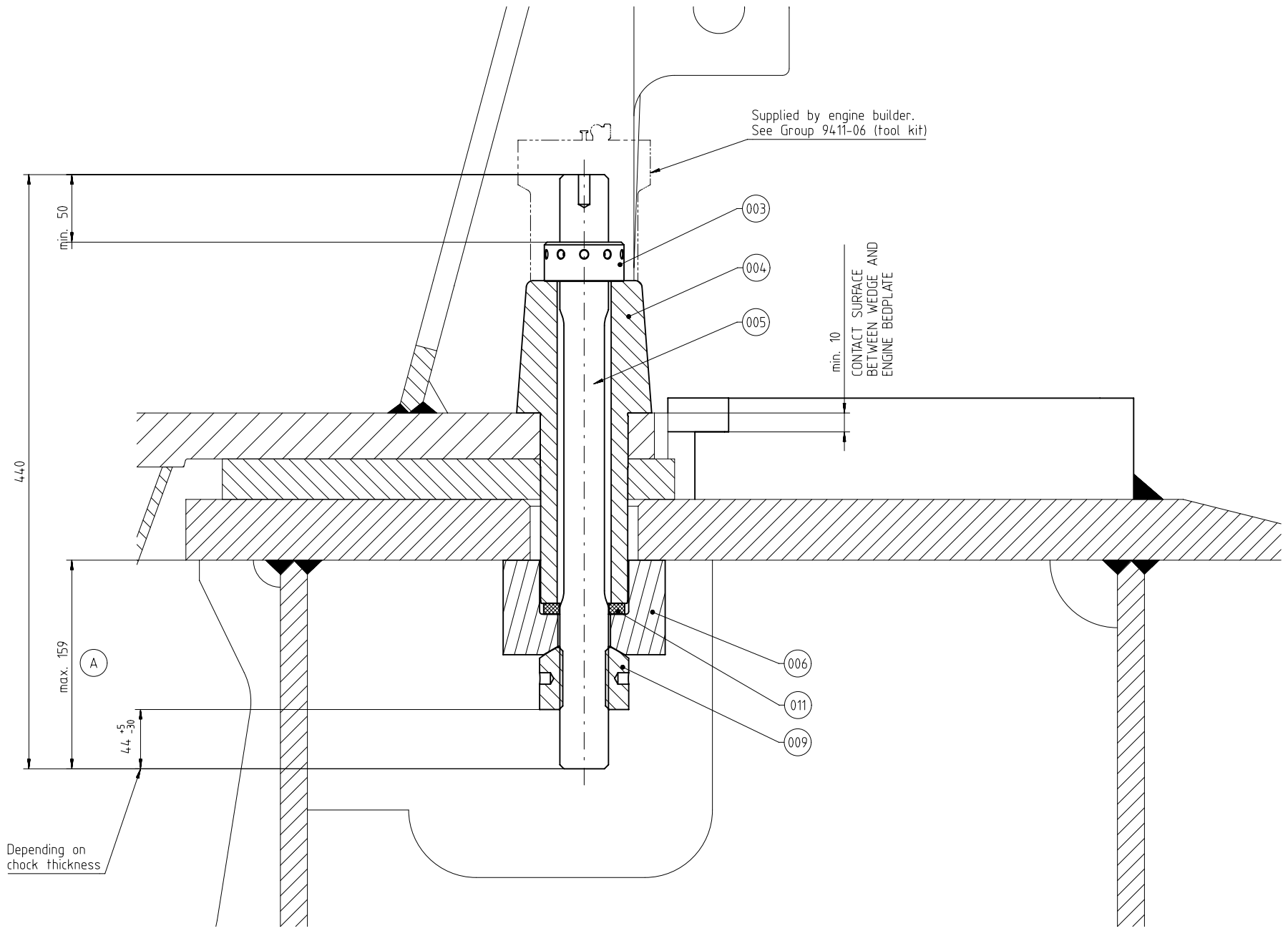
ENGINE SEATING/FOUNDATION

Units: mm kg	NX			Basic Material:				Net Weight:	
SURFACE PROTECTION SEE GROUP 8744	Made	06.12.2016	dhi021	DH.Kim	Scale: 1:10	Size: A0	Page: 2/3	Material:	
TOLERANCING PRINCIPLE ISO8015	Chkd	03.01.2017	wwa008 Wang		Design Group:				
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	18.01.2017	mlu019 Hug		9710	Drawing No.: DAAD084080		Rev.: A	

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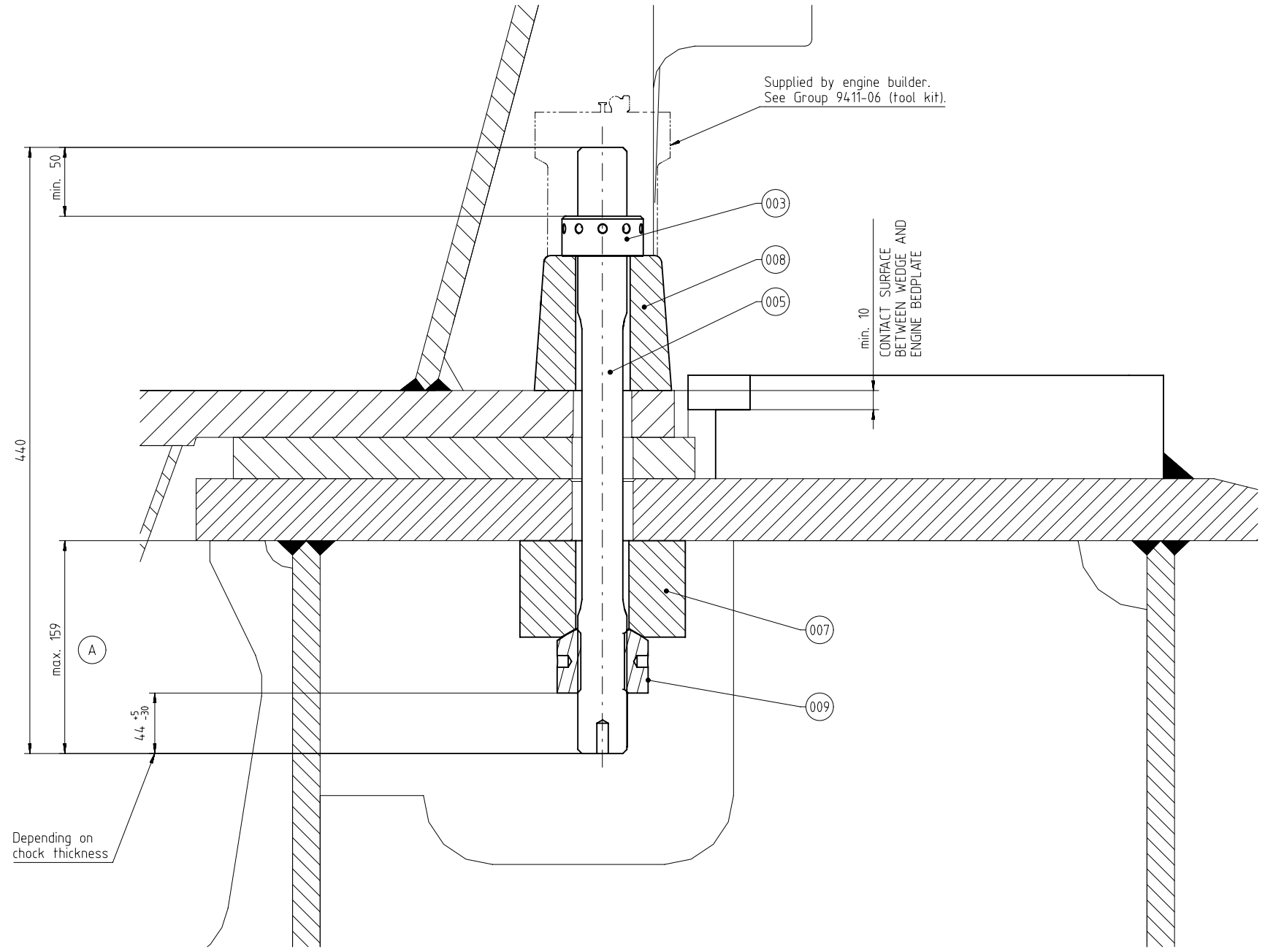
C-C

Arrangement after pouring the epoxy resin chock



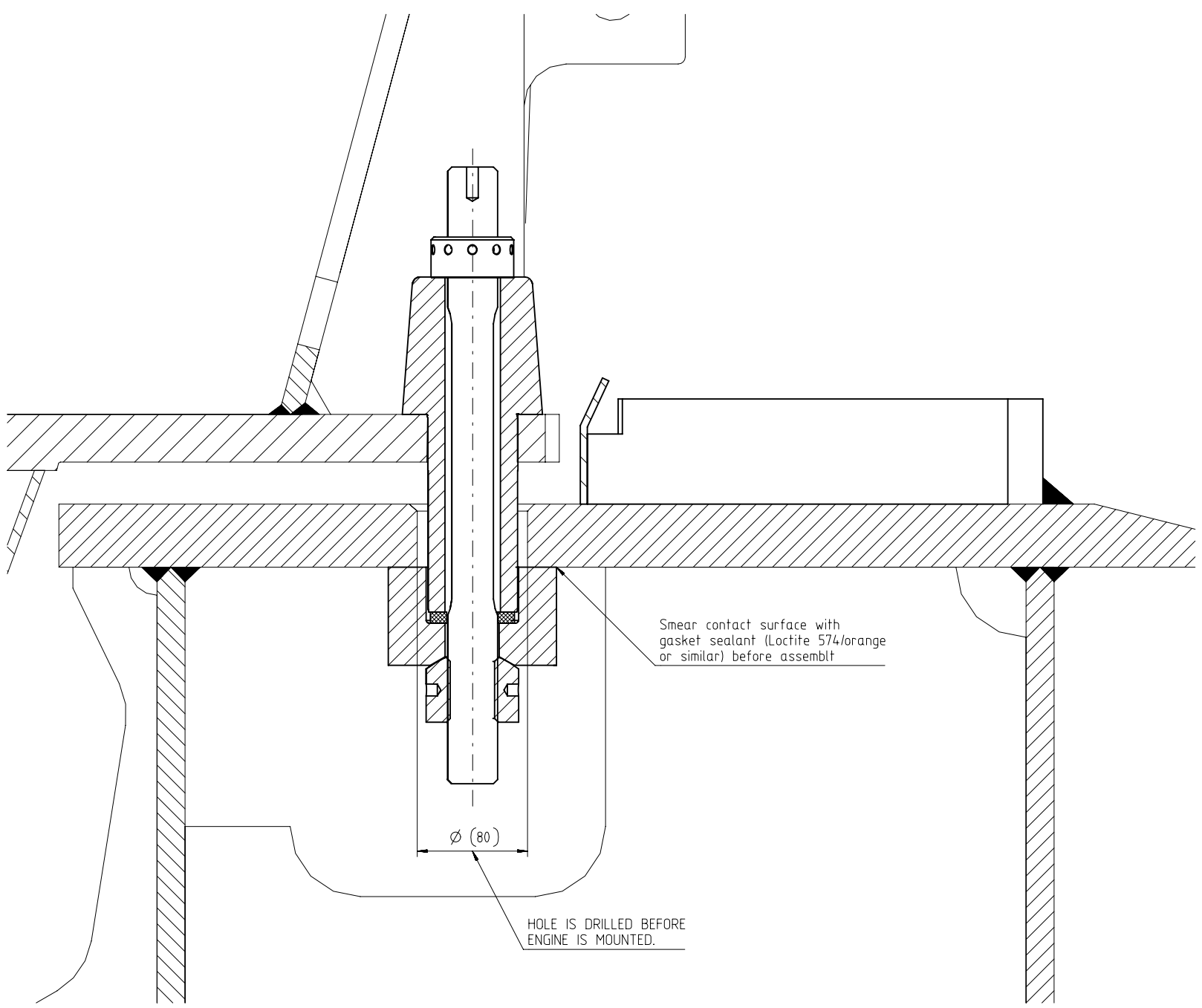
D-D

Arrangement after pouring the epoxy resin chock



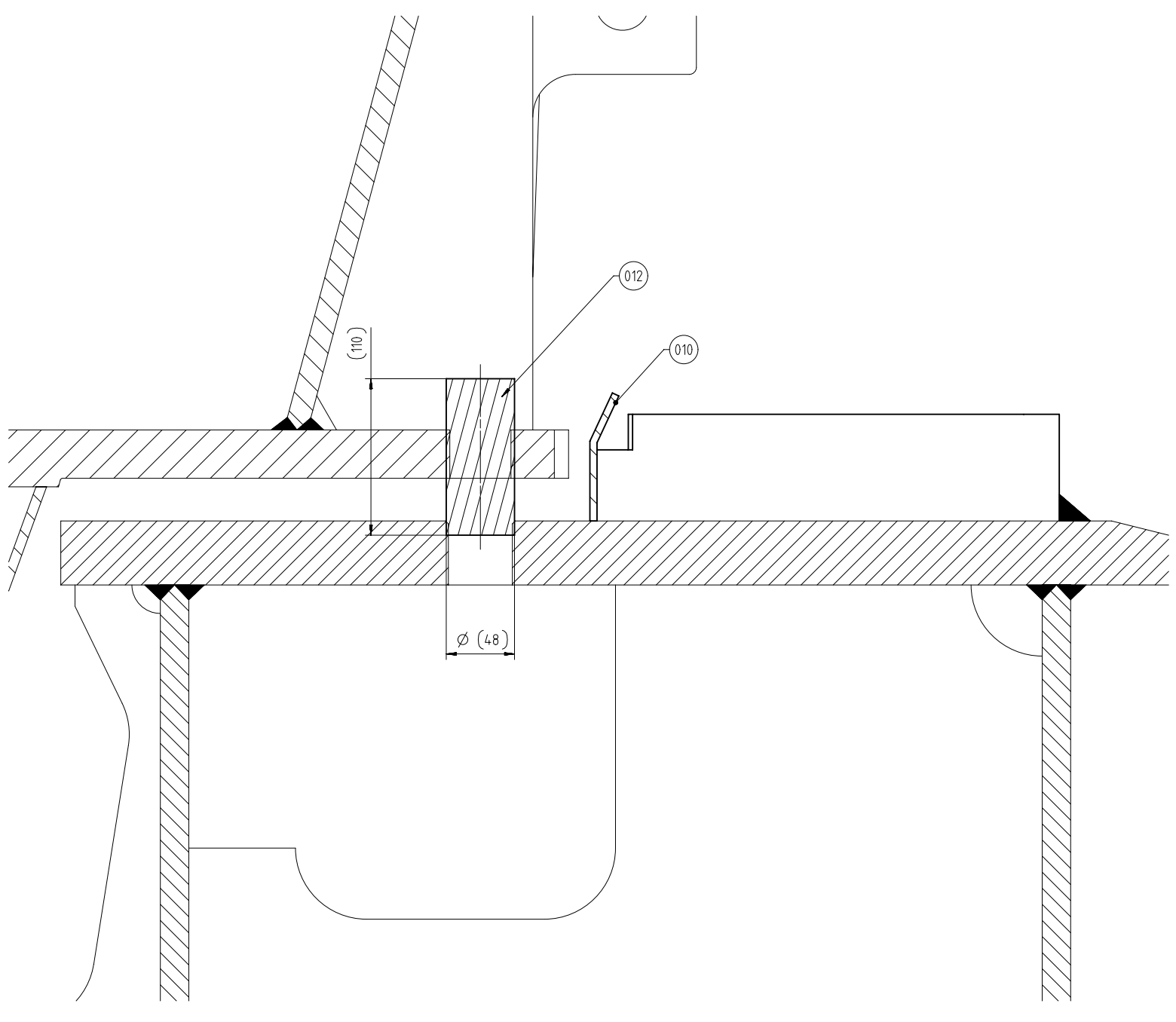
C-C

Arrangement before pouring the epoxy resin chock



D-D

Arrangement before pouring the epoxy resin chock



Free space for lic.		Q-Code: XXXXX Standard: ISO; JIS	Main Drw.: H
Modif.	(A) EAAD092787 (Number) 08.04.2020 (Drawn date)		

WIN GD Winterthur Gas & Diesel	Product: W6X35-B	ENGINE SEATING/FOUNDATION

Units: mm kg	NX		Basic Material	Net Weight

SURFACE PROTECTION SEE GROUP 0344	Made	06.12.2016 dki021 DH.Kim	Scale 1:2	Size A0	Page 3/3	Material ID
TOLERANCING PRINCIPLE ISO8015	Chkd	03.01.2017 wwa008 Wang	Design Group 9710	Drawing ID DAAD084080		Rev. A
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	18.01.2017 mhu019 Hug				

Approved

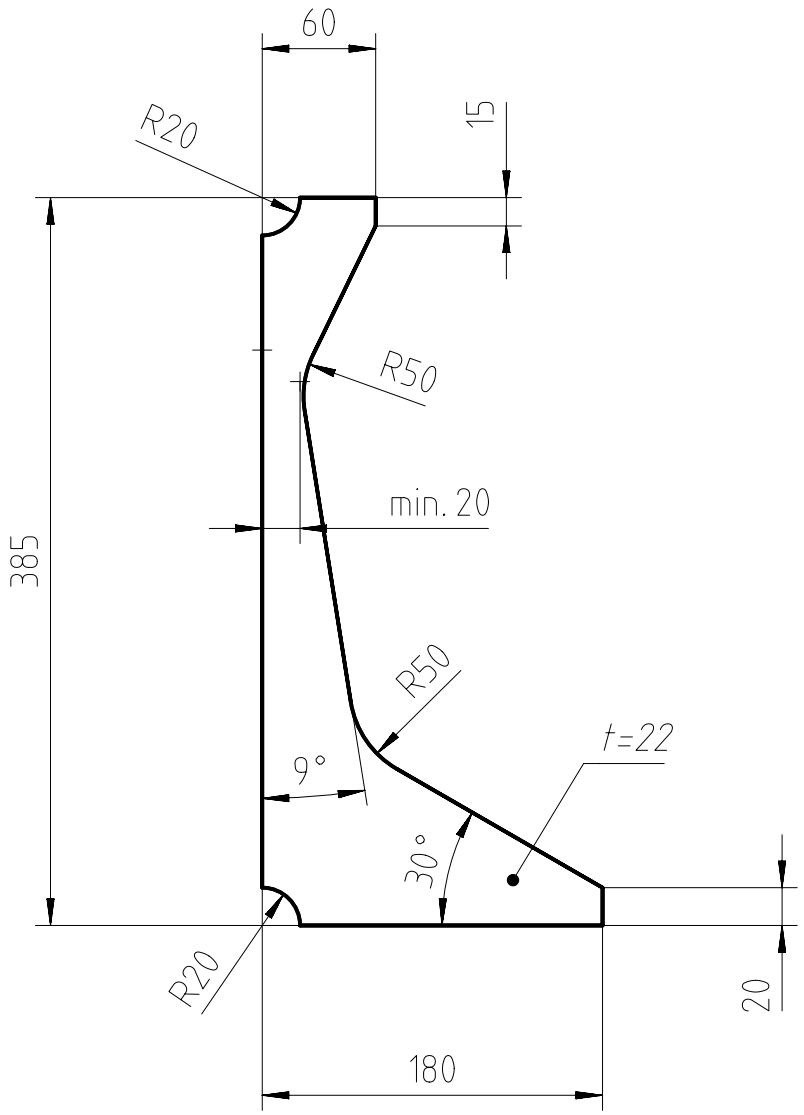
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SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK



Approved

Free space for lic.		Q-Code XXXXX	Main Drw.
		Standard ISO; JIS	

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date

WIN GD
Winterthur Gas & Diesel

Product W-35

RIB

Units	mm kg	NX	Basic Material	Net Weight 0
Made	05.12.2016 dki021 DH Kim	Scale 1:4	Size A4	Page 1/1	Material ID PAAD246868
Chkd	03.01.2017 wwa008 Wang	Design Group 9710	Drawing ID DAAD084268	Rev. –
Appd	18.01.2017 mhu019 Hug			

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SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Properties	Standart	Values
Ultimate compression strength	ASTM D-695	min. 130 MPa
Compression yield point	ASTM D-695	min. 100 MPa
Compressive modulus of elasticity	ASTM D-695	min. 3100 MPa
Deformation under load Load550 N / 70°C Load1100 N / 70°C	ASTM D-621	 max. 0.10% max. 0.15%
Curing shrinkage	ASTM D-2566	max. 0.15%
Coefficient of thermal expansion (0-60 K)	ASTM D-696	max. 50×10^{-6} 1/K
Coefficient of friction normal		min. 0.3

Required properties of epoxy resin material

Approved

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Q-Code: XQXXX

Standard: ISO; JIS

Main Drw.

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD091567	04.12.2019						

WIN GD Winterthur Gas & Diesel

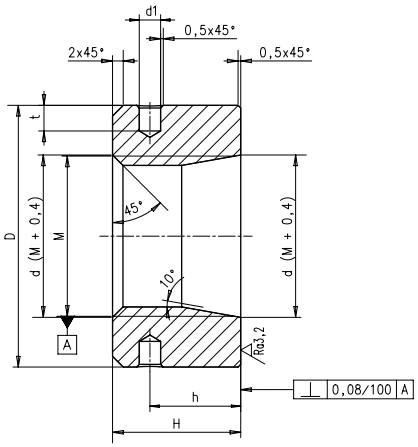
Product: W-2S

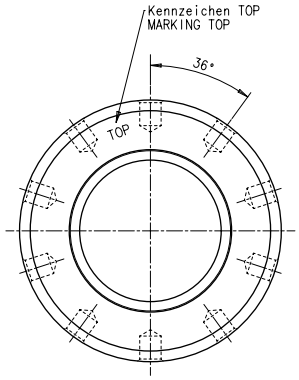
EPOXY RESIN

Epoxydharz

Units	mm kg	NX	Basic Material	Net Weight 0
Made	02.04.2008 M.PRSTEC	Scale -	Size A4	Page 1/1	Material ID 107.398.394.500
Chkd		Design Group 9710		
Appd	07.04.2008 MPR002 Prstec		Drawing ID 107.398.394	Rev. A

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POS.	M	D	d	H	h	d1	t
001	M27	44	27,4	22	15	$4\ ^{+0.2}_{0}$	4,8
002	M30	49	30,4	24	17	$4\ ^{+0.2}_{0}$	4,8
003	M33	54	33,4	26	18	$4\ ^{+0.2}_{0}$	4,8
004	M36	59	36,4	29	20	$6\ ^{+0.2}_{0}$	7,2
005	M39	64	39,4	31	22	$6\ ^{+0.2}_{0}$	7,2
006	M42	68	42,4	34	24	$6\ ^{+0.2}_{0}$	7,2
007	M45	73	45,4	36	25	$6\ ^{+0.2}_{0}$	7,2
008	M48	78	48,4	38	27	$6\ ^{+0.2}_{0}$	7,2
009	M52	85	52,4	42	29	$6\ ^{+0.2}_{0}$	7,2
010	M56	91	56,4	45	31	$6\ ^{+0.2}_{0}$	7,2
011	M60	98	60,4	48	34	$9,5\ ^{+0.2}_{0}$	11,4
012	M64	104	64,4	51	36	$9,5\ ^{+0.2}_{0}$	11,4
013	M68	111	68,4	54	38	$9,5\ ^{+0.2}_{0}$	11,4
014	M72	117	72,4	58	40	$9,5\ ^{+0.2}_{0}$	11,4
015	M76	124	76,4	61	43	$9,5\ ^{+0.2}_{0}$	11,4
016	M80	130	80,4	64	45	$9,5\ ^{+0.2}_{0}$	11,4
017	M85	139	85,4	68	48	$14\ ^{+0.2}_{0}$	16,8
018	M90	147	90,4	72	50	$14\ ^{+0.2}_{0}$	16,8
019	M95	155	95,4	76	53	$14\ ^{+0.2}_{0}$	16,8
020	M100	163	100,4	80	56	$14\ ^{+0.2}_{0}$	16,8
021	M105	171	105,4	84	59	$14\ ^{+0.2}_{0}$	16,8
022	M110	179	110,4	88	62	$14\ ^{+0.2}_{0}$	16,8

Ra6,3 (Ra3,2)

MATERIAL:	W-FA-42CrMo-QT
D >40 - ≤100	verguetet QUENCH HARDENED AND TEMPERED Rm = 900^{+200}_{0} N/mm²
D >100 - ≤160	verguetet QUENCH HARDENED AND TEMPERED Rm = 800^{+150}_{0} N/mm²
D >160 - ≤250	verguetet QUENCH HARDENED AND TEMPERED Rm = 750^{+150}_{0} N/mm²

QTY	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET
1	022	PAAD220851	ROUND NUT M110	107.380.159	W-FA-42CrMo-QT	11,3
1	021	PAAD293012	ROUND NUT M105	107.380.159	W-FA-42CrMo-QT	9,82
1	020	107.380.159.020	ROUND NUT M100	107.380.159	W-FA-42CrMo-QT	7,95
1	019	107.380.159.019	ROUND NUT M95	107.380.159	W-FA-42CrMo-QT	6,80
1	018	107.380.159.018	ROUND NUT M90	107.380.159	W-FA-42CrMo-QT	5,74
1	017	107.380.159.017	ROUND NUT M85	107.380.159	W-FA-42CrMo-QT	4,81
1	016	107.380.159.016	ROUND NUT M80	107.380.159	W-FA-42CrMo-QT	4,11
1	015	107.380.159.015	ROUND NUT M76	107.380.159	W-FA-42CrMo-QT	3,51
1	014	107.380.159.014	ROUND NUT M72	107.380.159	W-FA-42CrMo-QT	2,98
1	013	107.380.159.013	ROUND NUT M68	107.380.159	W-FA-42CrMo-QT	2,49
1	012	107.380.159.012	ROUND NUT M64	107.380.159	W-FA-42CrMo-QT	2,07
1	011	107.380.159.011	ROUND NUT M60	107.380.159	W-FA-42CrMo-QT	1,69
1	010	107.380.159.010	ROUND NUT M56	107.380.159	W-FA-42CrMo-QT	1,41
1	009	107.380.159.009	ROUND NUT M52	107.380.159	W-FA-42CrMo-QT	1,13
1	008	107.380.159.008	ROUND NUT M48	107.380.159	W-FA-42CrMo-QT	0,879
1	007	107.380.159.007	ROUND NUT M45	107.380.159	W-FA-42CrMo-QT	0,723
1	006	107.380.159.006	ROUND NUT M42	107.380.159	W-FA-42CrMo-QT	0,584
1	005	107.380.159.005	ROUND NUT M39	107.380.159	W-FA-42CrMo-QT	0,464
1	004	107.380.159.004	ROUND NUT M36	107.380.159	W-FA-42CrMo-QT	0,36
1	003	107.380.159.003	ROUND NUT M33	107.380.159	W-FA-42CrMo-QT	0,284
1	002	107.380.159.002	ROUND NUT M30	107.380.159	W-FA-42CrMo-QT	0,212
1	001	107.380.159.001	ROUND NUT M27	107.380.159	W-FA-42CrMo-QT	0,152

Free space for Mc. | Q-Code XQXXX | Standard ISO; JIS | Main Drw.

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
	A EAAD700213	28.11.2011	B EAAD700366	08.11.2012	C EAAD084320	31.05.2013	D EAAD089442	18.05.2018

WINGD Winterthur Gas & Diesel

Product W-2S

ROUND NUT

Rundmutter

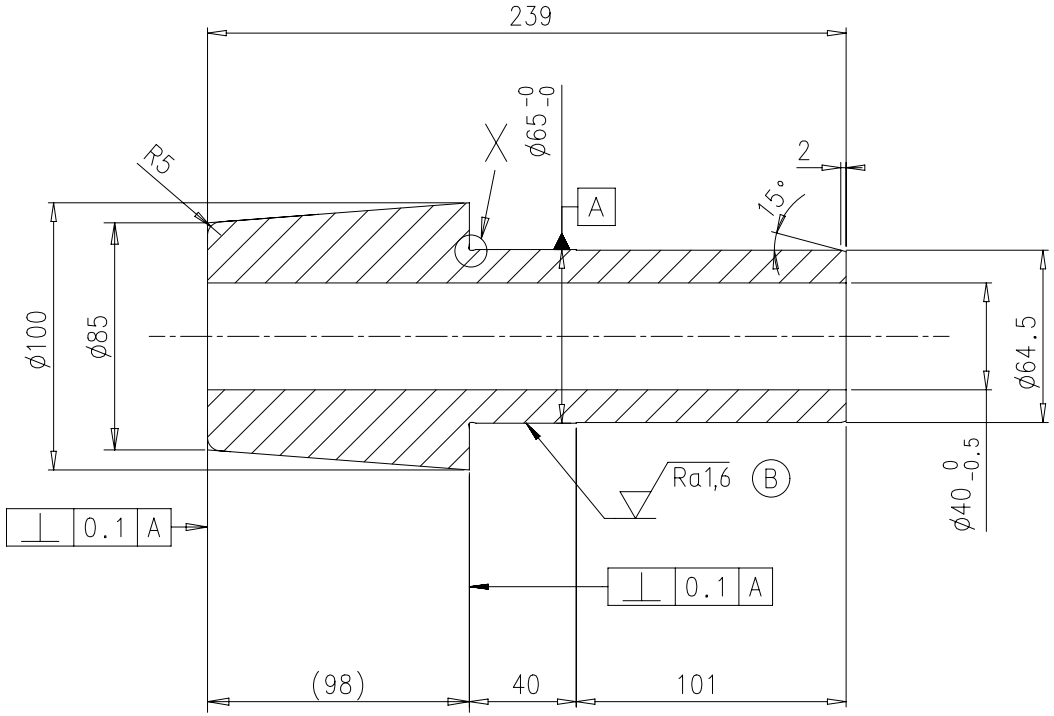
Units mm kg | NX | Basic Material | Net Weight

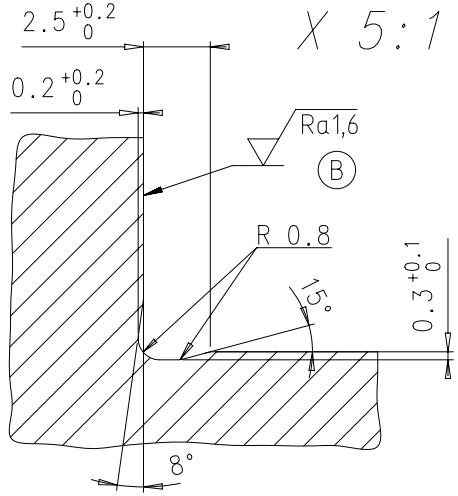
SURFACE PROTECTION SEE GROUP 0344	Made 18.12.2006 J.RIETMANN	Scale 1:1	Size A1	Page 1/1	Material ID
TOLERANCING PRINCIPLE ISO8015	Chkd	Design Group 3306	Drawing ID 107.380.159		Rev. D
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd 16.05.2007 ESC002 Schlegel				

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B Ra6,3 (Ra1,6)

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								Standard ISO; JIS			
Modif.	A	EAAD082648	12.07.2011	B	EAAD091567	22.11.2019					
		Number	Drawn date		Number	Drawn date		Number	Drawn date	Number	Drawn date

WIN GD Winterthur Gas & Diesel

Product W-2S

BUSH

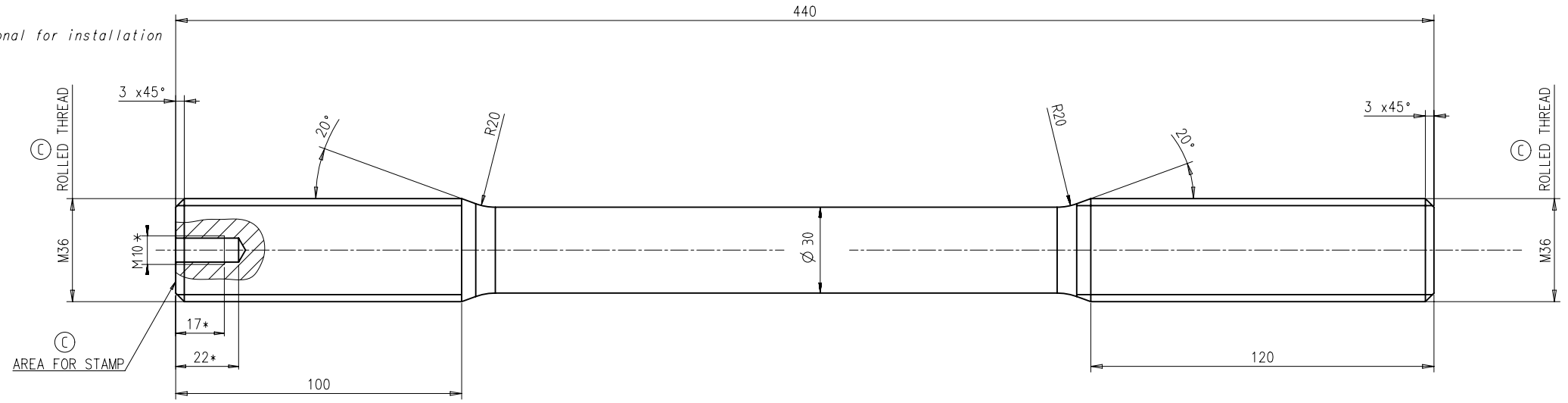
Buechse

Units mm kg	NX		Basic Material W-FA-34CrMo-QT			Net Weight 7,6
SURFACE PROTECTION SEE GROUP 0344	Made	20.09.2010 jba029 Baumann	Scale 1:2	Size A3	Page 1/1	Material ID 107.410.782.001
TOLERANCING PRINCIPLE ISO8015	Chkd	23.12.2010 wwr001 Wroblewski	Design Group 9710	Drawing ID 107.410.782		Rev. B
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	23.12.2010 dst009 Strödecke				

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Ⓒ Ra3,2

MACHINED BEFORE THREAD ROLLING
QUENCH HARDENED AND TEMPERED, Rm = 900 $^{+200}_{0}$ N/mm^2
YIELD POINT Re = min. 650 N/mm^2
ELONGATION AT BREAK A(Lo = 5do) = min. 12%
IMPACT ENERGY ISO-V = 40J (Temp. 20°C)

* THIS TABLE REFERS TO DIN EN 10204-(2004), 'TYPES OF INSPECTION DOCUMENTS'		
LISTED ARE THE MOST STRINGENT CERTIFICATION REQUIREMENTS ACTUAL REQUIREMENTS MUST BE AGREED WITH THE APPROPRIATE CLASSIFICATION SOCIETY		
TEST TYPE:	CERTIFICATE TYPE:	TESTING FREQUENCY:
MATERIAL	MATERIAL IDENTIFICATION	-
CHEMICAL ANALYSIS	CLASSIFICATION CERTIFICATE 3.2*	TEST PER ORDER LOT OR PER CHARGE IF SEVERAL CHARGES
TENSILE TEST	CLASSIFICATION CERTIFICATE 3.2*	TEST PER ORDER LOT OR PER CHARGE IF SEVERAL CHARGES
IMPACT TEST	CLASSIFICATION CERTIFICATE 3.2*	TEST PER ORDER LOT OR PER CHARGE IF SEVERAL CHARGES
HARDNESS TEST	INSPECTION CERTIFICATE 3.1* (INDEPENDENT AUTHORITY)	EXAMINATION OF EACH PART
SURFACE CRACK DETECTION TEST	INSPECTION CERTIFICATE 3.1* (INDEPENDENT AUTHORITY)	EXAMINATION OF EACH PART

QTY	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET
1	001	107.427.450.200	MATERIAL AND TEST SPECIFICATION ELASTIC BOLT	107.427.450		0,006

Approved

Free space for lic.

Q-Code 1QXP1
Standard ISO; JIS
Main Drw.

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD083430	18.01.2012	B EAAD087209	09.06.2017	C EAAD091567	22.11.2019		

WIN GD Winterthur Gas & Diesel

Product W-2S

ELASTIC BOLT

Dehnbolzen

Units	mm kg	NX	Basic Material	W-FA-34CrMo-QT	Net Weight	3,1

SURFACE PROTECTION SEE GROUP 0344	Made	20.09.2010	jba029 Baumann	Scale 1:1	Size A2	Page 1/1	Material ID 107.410.785.001
TOLERANCING PRINCIPLE ISO8015	Chkd	23.12.2010	wwr001 Wroblewski	Design Group 9710	Drawing ID 107.410.785		Rev. C
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	23.12.2010	dst009 Strödecke				

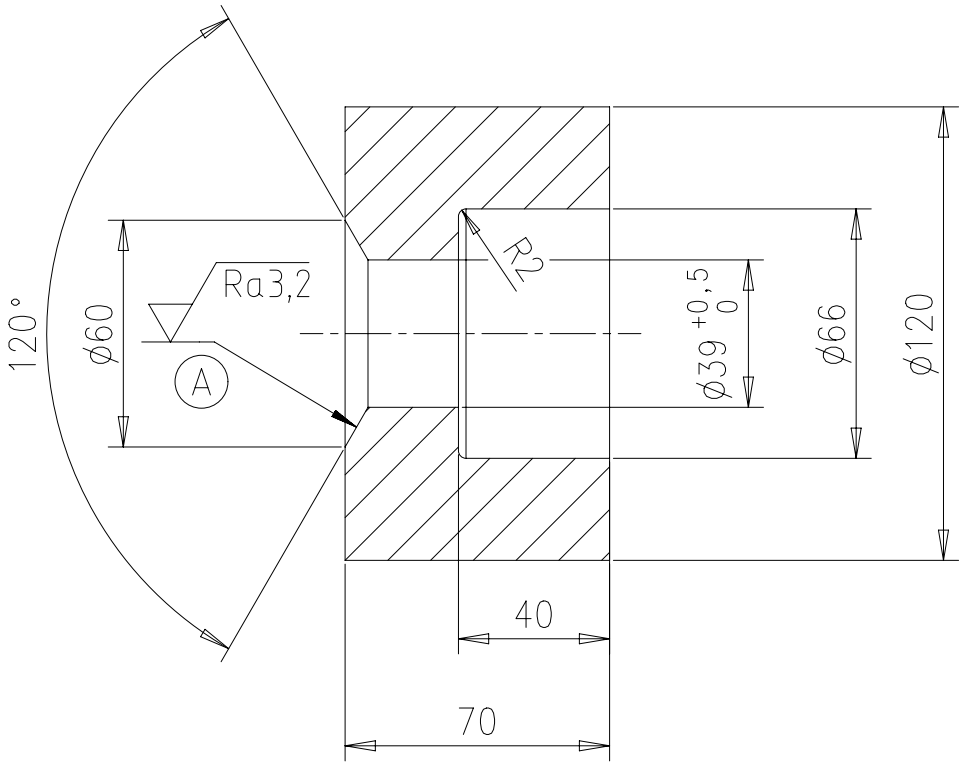
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SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK



A Ra6,3 (Ra3,2) SHARP EDGES REMOVED

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Q-Code XXXXX

Standard ISO; JIS

Main Drw.

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD091567	23.11.2019						

WIN GD Winterthur Gas & Diesel

Product W-2S

CONICAL SOCKET

Konische Buechse

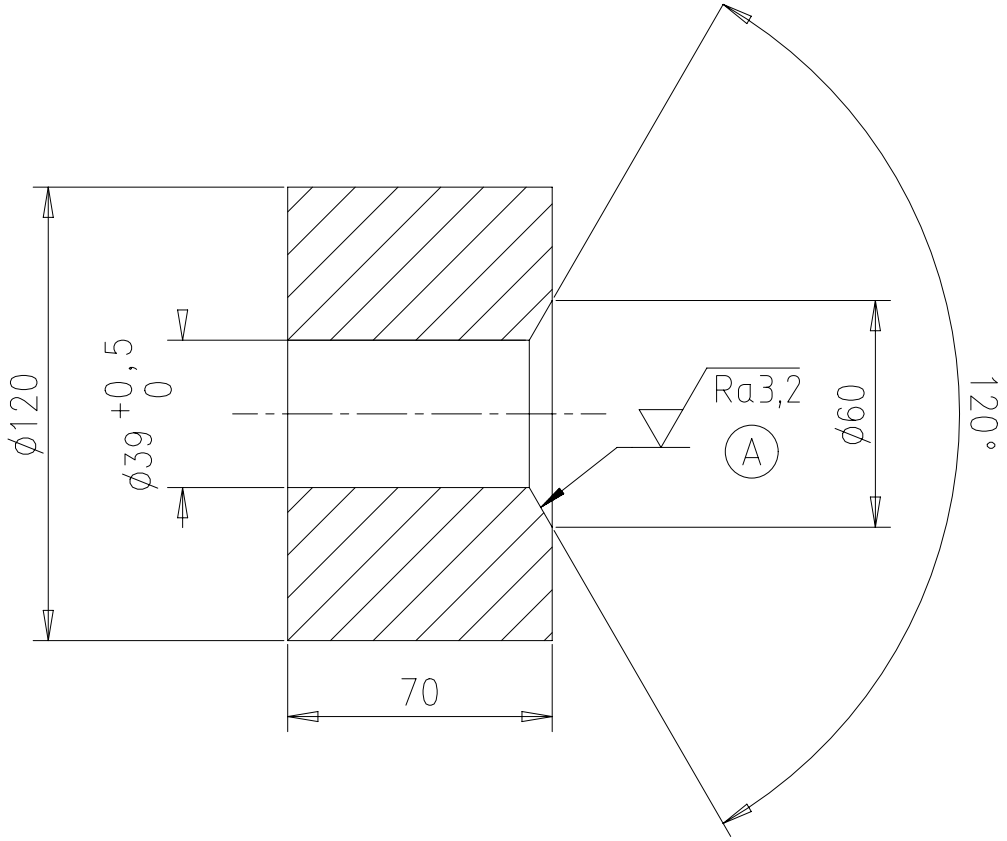
Units	mm kg	NX	Basic Material	W-FA-34CrMo-QT	Net Weight	4,8
Made	20.09.2010 jba029 Baumann		Scale	1:2	Size A4	Page 1/1
Chkd	23.12.2010 wwr001 Wroblewski		Design Group	9710	Material ID	107.410.786.001
Appd	23.12.2010 dst009 Strödecke		Drawing ID	107.410.786	Rev.	A

ILD - INSTALLATION DRAWING - Internal

SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK



A Ra6,3 (Ra3,2) SHARP EDGES REMOVED

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Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD091567	23.11.2019						

Q-Code: XXXXX

Standard: ISO; JIS

Main Drw.

WIN GD Winterthur Gas & Diesel

Product: W-2S

CONICAL SOCKET

Konische Buechse

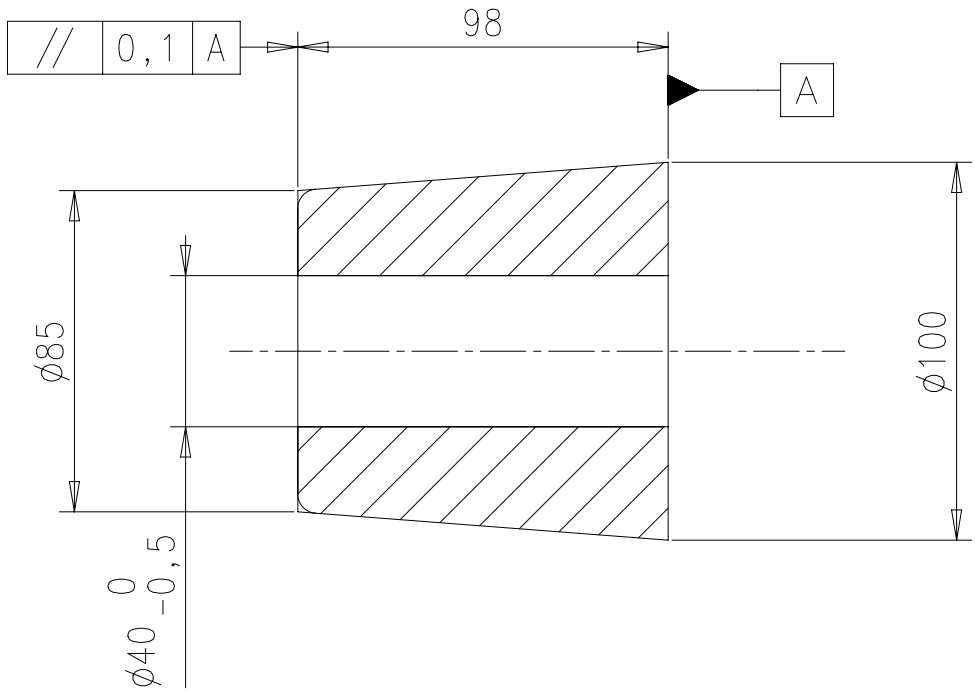
Units	mm kg	NX	Basic Material	W-FA-34CrMo-QT		Net Weight 5,5
Made	20.09.2010	jba029 Baumann	Scale	1:2	Size A4 / Page 1/1	Material ID 107.410.788.001
Chkd	23.12.2010	wwr001 Wroblewski	Design Group	9710		
Appd	23.12.2010	dst009 Ströedecke	Drawing ID	107.410.788		Rev. A

ILD - INSTALLATION DRAWING - Internal

SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK



A Ra6,3 SHARP EDGES REMOVED 0,2x45°

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Q-Code XXXXX

Standard ISO; JIS

Main Drw.

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD091567	05.12.2019						

WIN GD Winterthur Gas & Diesel

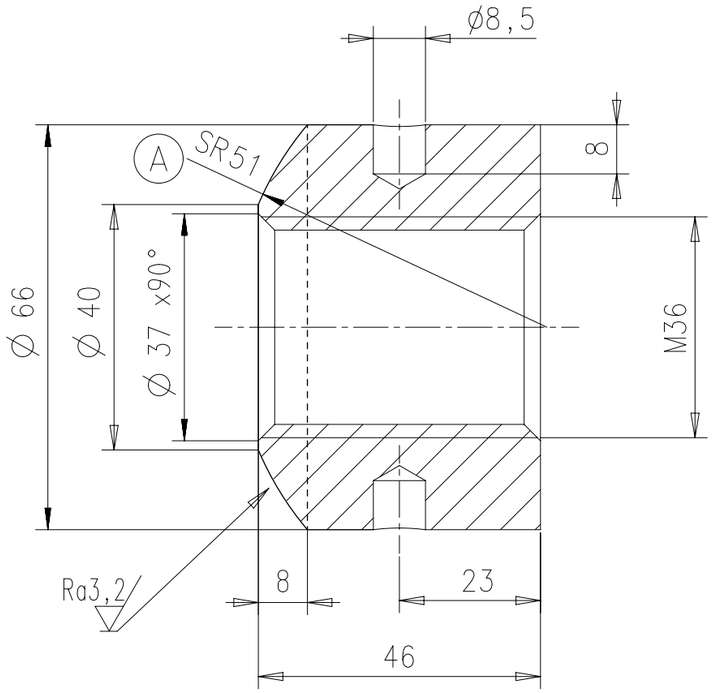
Product W-2S

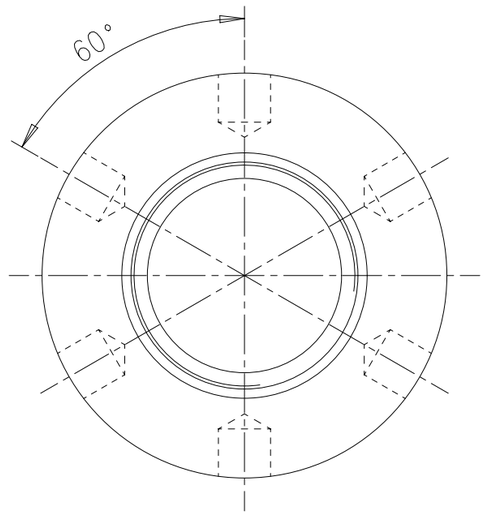
BUSH

Buechse

Units	mm kg	NX	Basic Material	W-FA-34CrMo-QT	Net Weight	5,5
Made	20.09.2010 jba029 Baumann		Scale	1:2	Size A4 / Page 1/1	Material ID 107.410.787.001
Chkd	23.12.2010 wwr001 Wroblewski		Design Group	9710		
Appd	23.12.2010 dst009 Strödecke		Drawing ID	107.410.787		Rev. A

ILD - INSTALLATION DRAWING - Internal





Ra6,3 (Ra3,2) Kanten gebrochen
SHARP EDGES REMOVED 0,2x45°

Free space for lic.									Q-Code XXXXX		Main Drw.
									Standard ISO; JIS		
Modif.	A	EAAD087849	12.06.2017								
		Number	Drawn date		Number	Drawn date		Number	Drawn date	Number	Drawn date

WIN GD Winterthur Gas & Diesel

Product W-2S

SPHERICAL ROUND NUT

Kugelige Rundmutter

Units mm kg	NX		Basic Material 34CrMo4;SCM 435			Net Weight 0.85
SURFACE PROTECTION SEE GROUP 0344	Made	20.09.2010 jba029 Baumann	Scale 1:1	Size A3	Page 1/1	Material ID 107.410.789.001
TOLERANCING PRINCIPLE ISO8015	Chkd	23.12.2010 wwr001 Wroblewski	Design Group 9710	Drawing ID 107.410.789		Rev. A
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	23.12.2010 dst009 Strödecke				

Approved

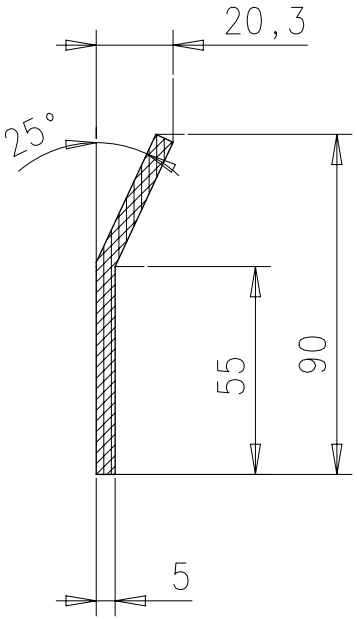
ILD - INSTALLATION DRAWING - Internal

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SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK



Approved

Free space for lic.		Q-Code XXXXX	Main Drw.
		Standard ISO; JIS	

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD082947	03.08.2011	B	EAAD091567	03.03.2020			

WIN GD
Winterthur Gas & Diesel

Product
W-2S

SEALING PIECE

Dichtleiste

Units	mm kg	NX	Basic Material	Net Weight 0,001
Made	13.02.2006 R. ZUCCHI		Scale 1:1	Size A4 / Page 1/1 / Material ID 107.367.119.001
Chkd			Design Group 9710	
Appd	03.04.2006 SNA001		Drawing ID 107.367.119	Rev. B

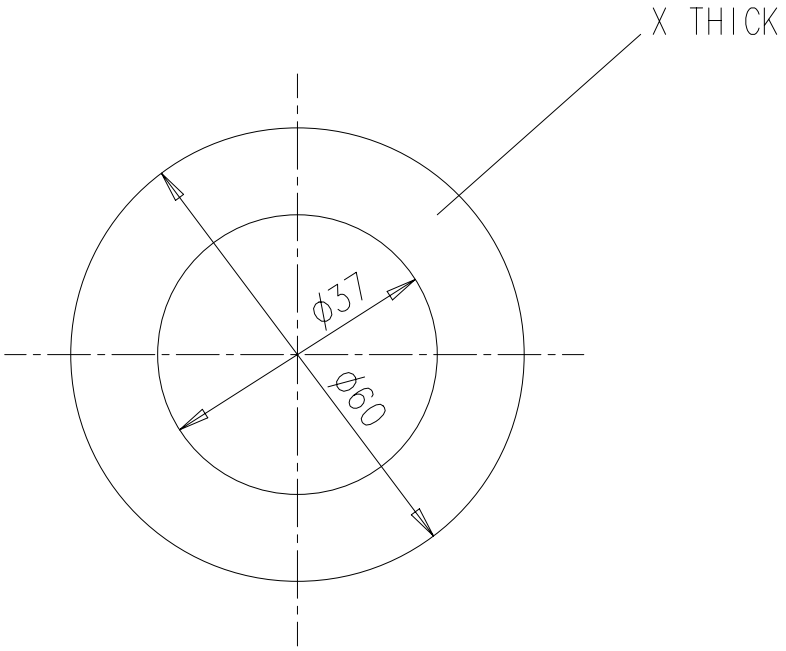
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SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK



X = determined during assembly

Approved

Free space for lic.		Q-Code XXXXX	Main Drw.
		Standard ISO; JIS	

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD091567	23.11.2019						

WIN GD
Winterthur Gas & Diesel

Product W-2S

JOINT DISC

Dichtscheibe

Units	mm kg	NX	Basic Material	Rubber750	Net Weight	0,002
Made	20.09.2010	jba029 Baumann	Scale	1:1	Size A4 / Page 1/1	Material ID 107.410.829.001
Chkd	23.12.2010	wwr001 Wroblewski	Design Group	9710		
Appd	23.12.2010	dst009 Strödecke	Drawing ID	107.410.829		Rev. A

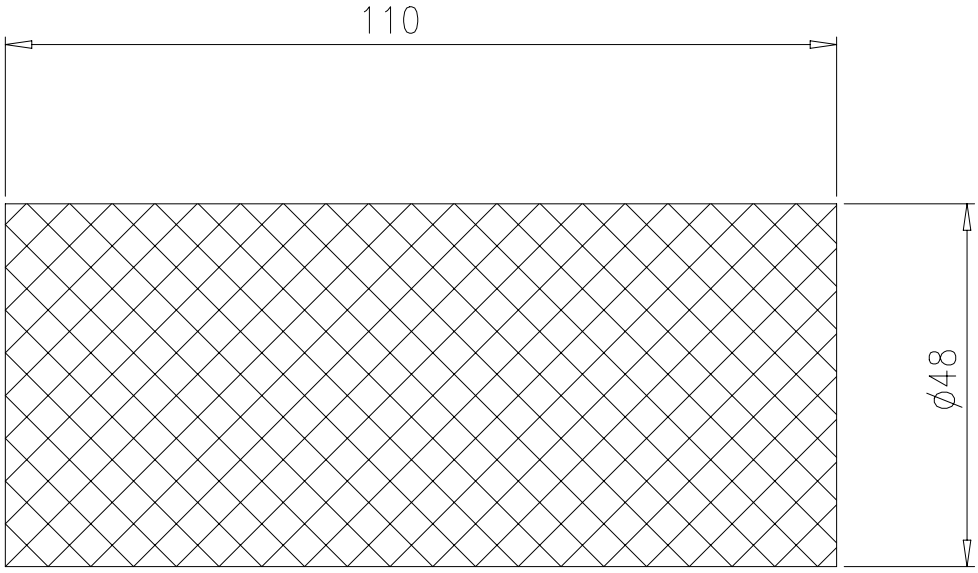
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ILD - INSTALLATION DRAWING - Internal

SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK



*) Material according to shipyard expierence

Approved

Free space for lic.		Q-Code XXXXX	Main Drw.
		Standard ISO; JIS	

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD091567	23.11.2019						

WIN GD
Winterthur Gas & Diesel

Product W-2S

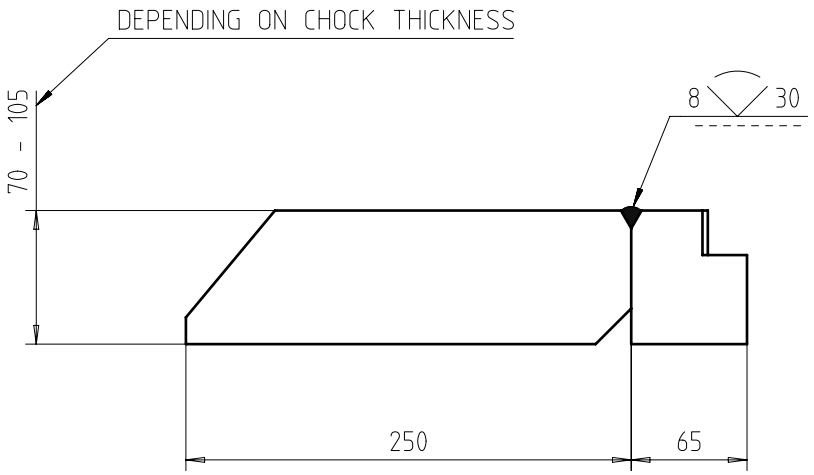
PLUG

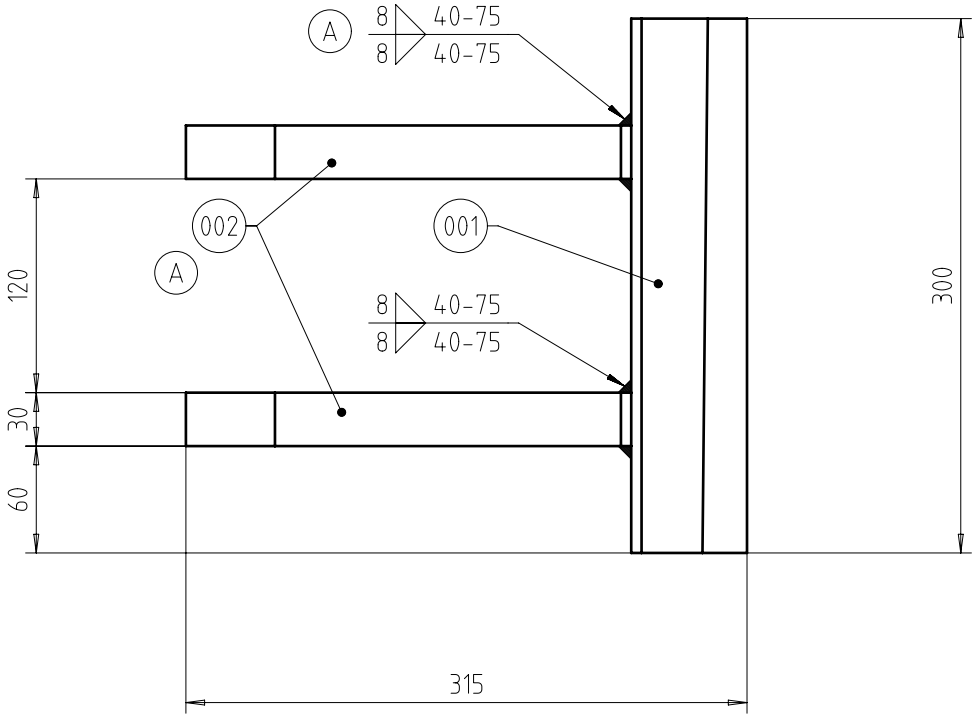
Units mm kg	NX	Basic Material *)	Net Weight 0,001

Made	22.11.2010 S. Feuerstein	Scale 1:1	Size A4	Page 1/1	Material ID PAAD024777
Chkd	19.01.2011 wwr001 Wroblewski	Design Group 9710	Drawing ID DAAD011552		Rev. A
Appd	19.01.2011 dst009 Strödecke				

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WELD QUALITY LEVEL D (SEE 4-107.345.444)

QTY	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET
2	002	107.411.235.001	FLAT BAR	107.411.235	W-FU-235-JR	4,0
1	001	107.411.231.001	FLAT BAR 65xhx300	107.411.231	S235JR;STKM 12A	10,0

Free space for lic.

Q-Code: XXXXX

Standard: ISO; JIS

Main Drw.

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD089996	12.02.2019						

Approved

WIN GD Winterthur Gas & Diesel

Product: W-2S

ENGINE SIDE STOPPER
WELDED TYPE, FUEL SIDE
Motor-Seitenstopper

Units mm kg	NX	Basic Material			Net Weight 18
Made 13.09.2011 sth017 S.Thalmann		Scale 1:3	Size A3	Page 1/1	Material ID PAAD060498
Chkd 21.10.2011 mhu019 Hug		Design Group 9710	Drawing ID DAAD020531		Rev. A
Appd 21.10.2011 wwr001 Wroblewski					

SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

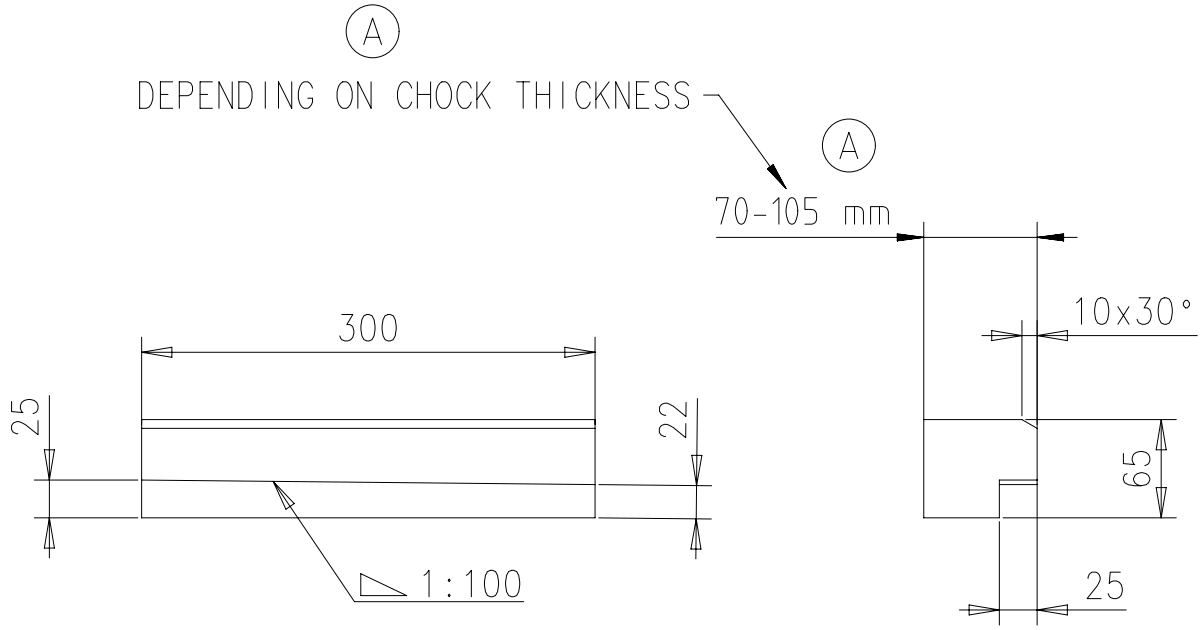
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SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK





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Q-Code: XXXXX

Standard: ISO; JIS

Main Drw.

Modif.		Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
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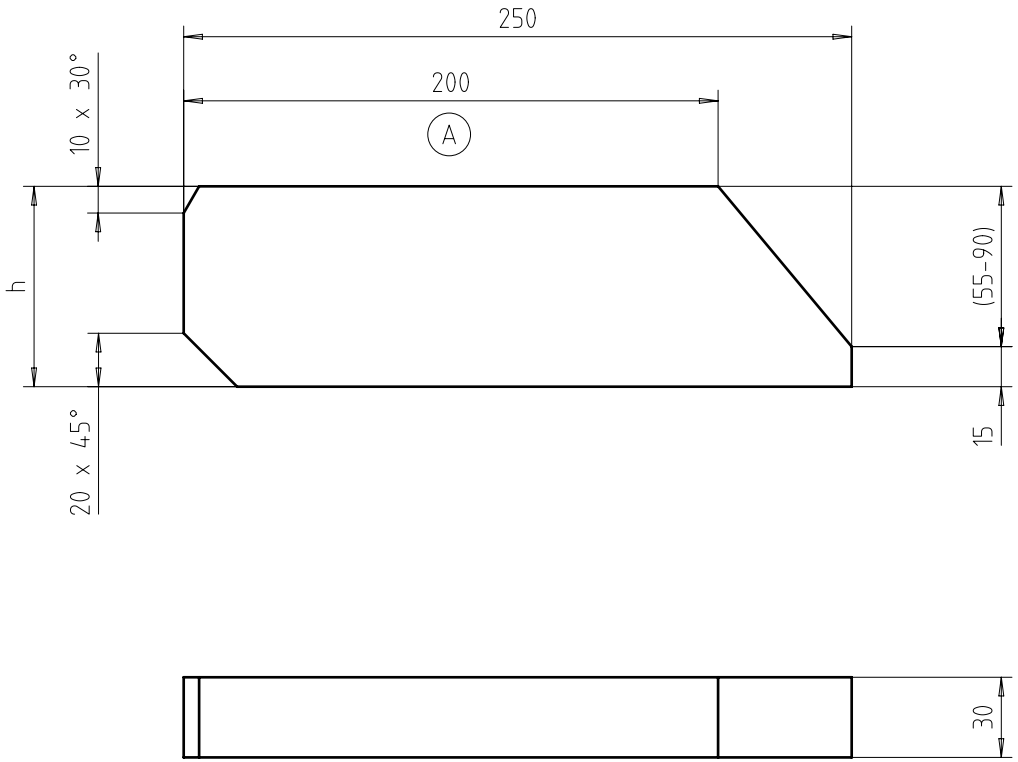
WIN GD Winterthur Gas & Diesel

Product: W-2S

FLAT BAR
TO ENGINE SIDE STOPPER
Flachstahl

Units	mm kg	NX	Basic Material	W-FU-235-JR	Net Weight 10
Made	20.09.2010 jba029 Baumann		Scale 1:5	Size A4 / Page 1/1	Material ID 107.411.231.001
Chkd	23.12.2010 wwr001 Wroblewski		Design Group 9710		
Appd	23.12.2010 dst009 Strödecke			Drawing ID 107.411.231	Rev. A

ILD - INSTALLATION DRAWING - Internal



Ra50
SHARP EDGES REMOVED

h = (70 - 105 mm)
DEPENDING ON CHOCK THICKNESS,
TO BE DETERMINED BY SHIPYARD

Free space for lic.								Q-Code XXXXX		Main Drw.	
								Standard ISO; JIS			
Modif.	A	EAAD089996	19.10.2018								
		Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date		

WIN GD Winterthur Gas & Diesel

Product W-2S

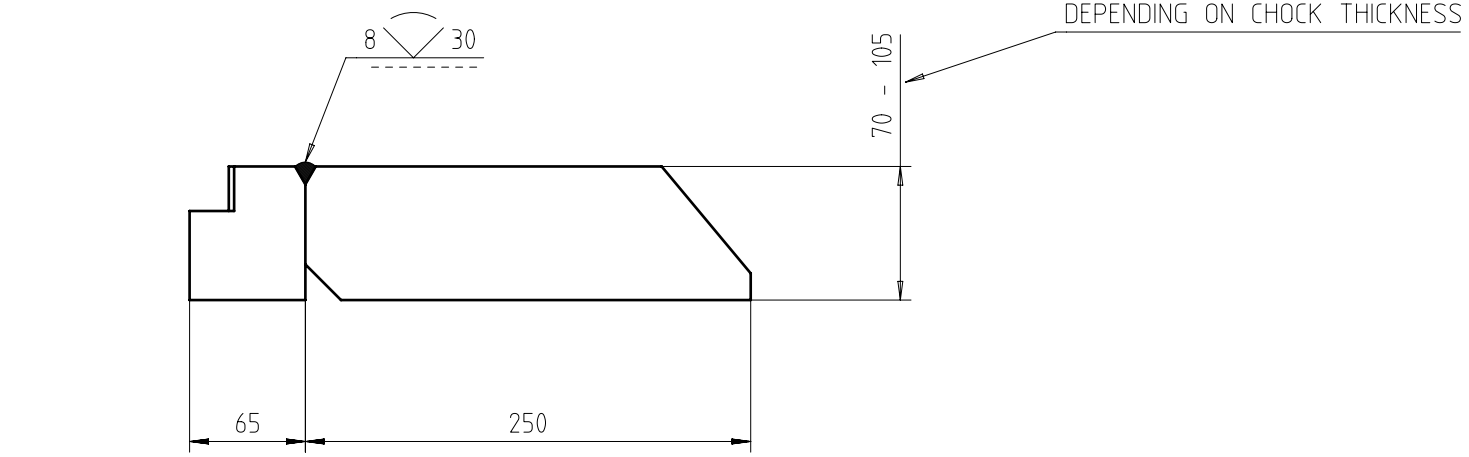
FLAT BAR
TO ENGINE SIDE STOPPER
Flachstahl

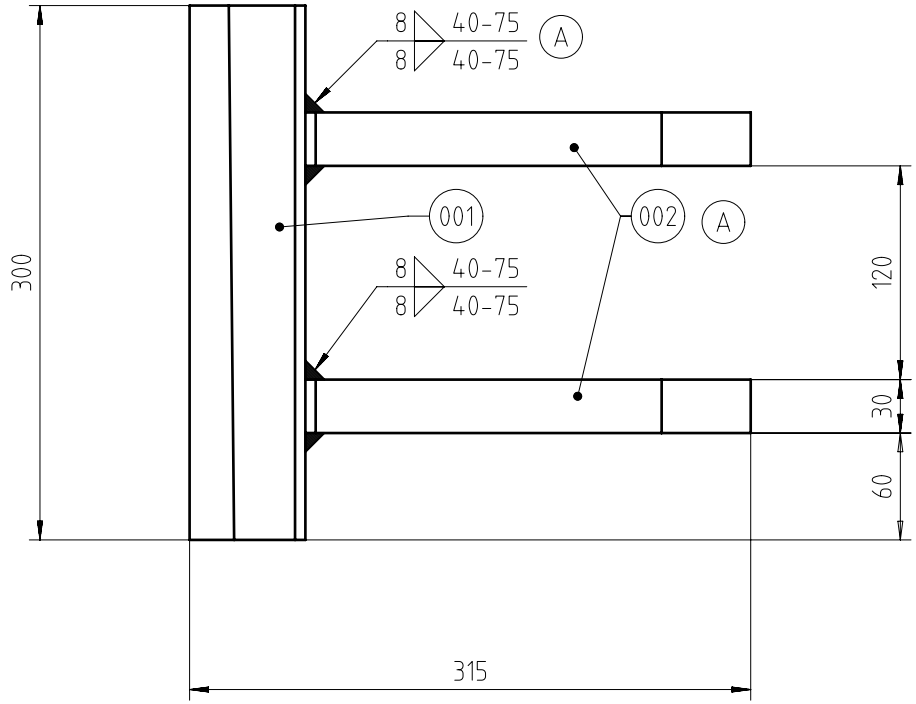
Units mm kg	NX		Basic Material W-FU-235-JR		Net Weight 4
SURFACE PROTECTION SEE GROUP 0344	Made 20.09.2010 jba029 Baumann	Scale 1:2	Size A3	Page 1/1	Material ID 107.411.235.001
TOLERANCING PRINCIPLE ISO8015	Chkd 23.12.2010 wwr001 Wroblewski	Design Group 9710	Drawing ID 107.411.235		Rev. A
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd 23.12.2010 dst009 Strödecke				

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WELD QUALITY LEVEL D (SEE 4-107.345.444)

QTY	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET
2	002	107.411.235.001	FLAT BAR	107.411.235	W-FU-235-JR	4,0
1	001	107.411.232.001	FLAT BAR 65xhx300	107.411.232	S235JR;STKM 12A	10,0

Free space for lic.

Q-Code: XXXXX

Standard: ISO; JIS

Main Drw.

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD089996	12.02.2019						

WIN GD Winterthur Gas & Diesel

Product: W-2S

ENGINE SIDE STOPPER
WELDED TYPE, EXHAUST SIDE
Motor-Seitenstopper

Units: mm kg | NX | Basic Material | Net Weight 18

SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Made	13.09.2011	sth017 S.Thalmann	Scale 1:3	Size A3	Page 1/1	Material ID PAAD060492
Chkd	21.10.2011	mhu019 Hug	Design Group 9710	Drawing ID DAAD020526		Rev. A
Appd	21.10.2011	wwr001 Wroblewski				

Approved

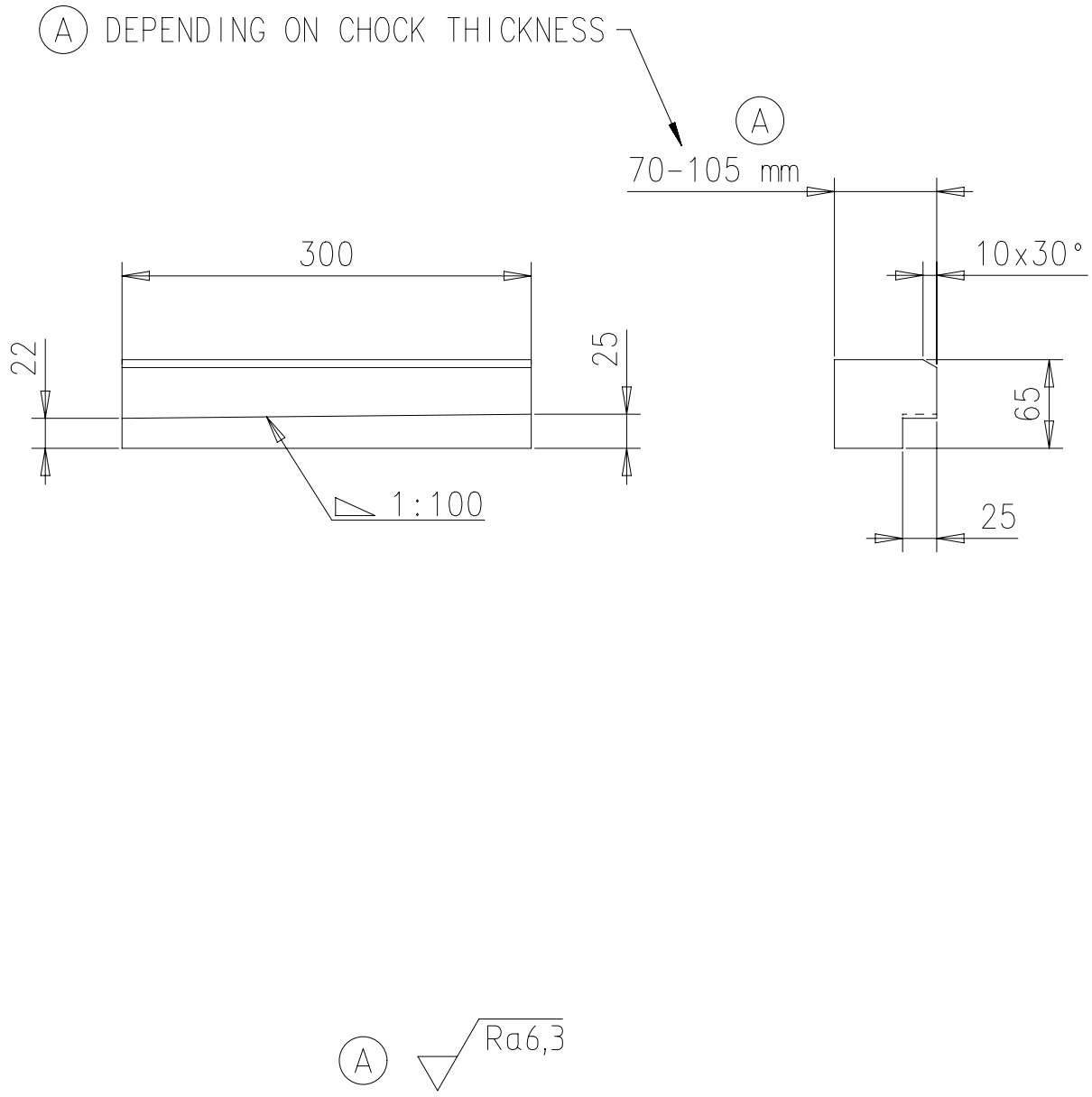
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SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK



A Ra6,3

Approved

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Q-Code	Main Drw.
XXXXX	
Standard	
ISO; JIS	

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD091567	23.11.2019						

WIN GD
Winterthur Gas & Diesel

Product
W-2S

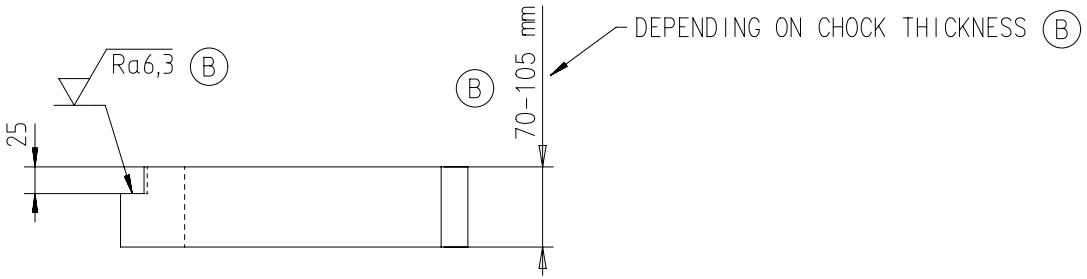
FLAT BAR
TO ENGINE SIDE STOPPER
Flachstahl

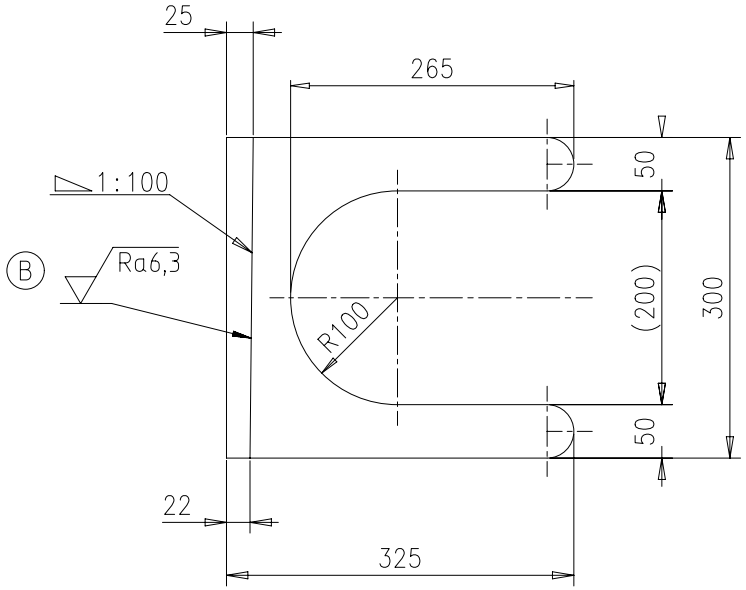
Units	mm kg	NX	Basic Material	W-FU-235-JR	Net Weight	10

Made	20.09.2010 jba029 Baumann	Scale	1:5	Size A4	Page 1/1	Material ID 107.411.232.001
Chkd	23.12.2010 wwr001 Wroblewski	Design Group	9710	Drawing ID 107.411.232		Rev. A
Appd	23.12.2010 dst009 Strödecke					

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ILD - INSTALLATION DRAWING - Internal





B Ra50 (Ra6,3)

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								Standard ISO; JIS			
Modif.	A	EAAD083260	30.09.2011	B	EAAD091567	23.11.2019					
		Number	Drawn date		Number	Drawn date		Number	Drawn date	Number	Drawn date

WIN GD Winterthur Gas & Diesel

Product W-2S

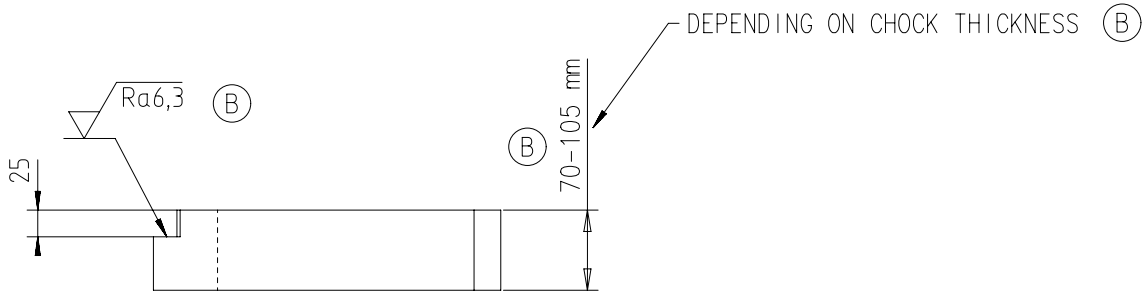
ENGINE SIDE STOPPER
EXECUTION "FLAME CUT"
Motor-Seitenstopper

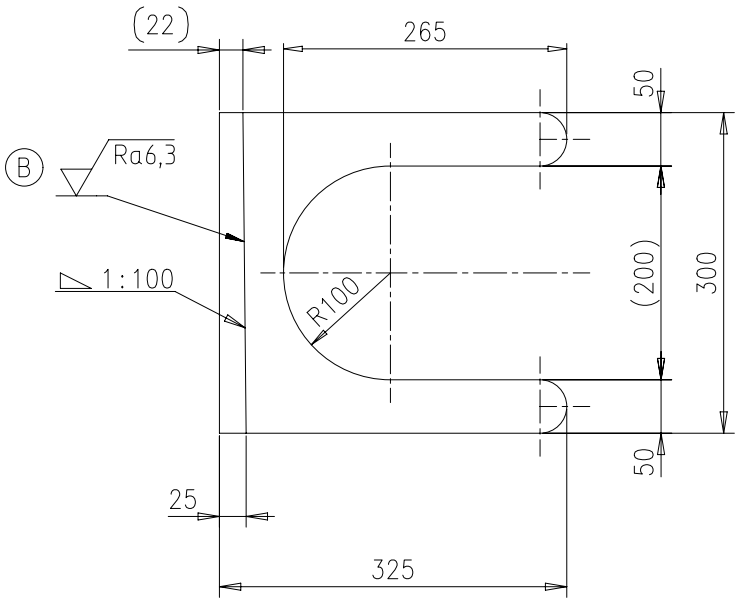
Units mm kg	NX		Basic Material W-FU-235-JR			Net Weight 27
SURFACE PROTECTION SEE GROUP 0344	Made	20.09.2010 jba029 Baumann	Scale 1:5	Size A3	Page 1/1	Material ID 107.411.244.001
TOLERANCING PRINCIPLE ISO8015	Chkd	23.12.2010 wwr001 Wroblewski	Design Group 9710	Drawing ID 107.411.244		Rev. B
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	23.12.2010 dst009 Strödecke				

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B Ra50 (Ra6,3)

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								Standard ISO; JIS			
Modif.	A	EAAD083260	30.09.2011	B	EAAD091567	23.11.2019					
		Number	Drawn date		Number	Drawn date		Number	Drawn date	Number	Drawn date

WIN GD Winterthur Gas & Diesel

Product W-2S

ENGINE SIDE STOPPER
EXECUTION "FLAME CUT"
Motor-Seitenstopper

Units mm kg	NX		Basic Material W-FU-235-JR			Net Weight 27
Made 20.09.2010 jba029 Baumann		Scale 1:5	Size A3	Page 1/1	Material ID 107.411.245.001	
Chkd 23.12.2010 wwr001 Wroblewski		Design Group 9710	Drawing ID 107.411.245			Rev. B
Appd 23.12.2010 dst009 Strödecke						

SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Approved

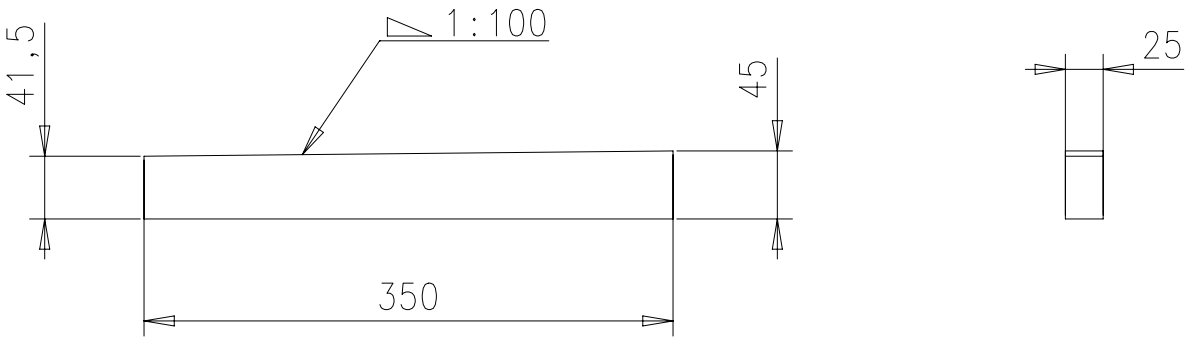
ILD - INSTALLATION DRAWING - Internal

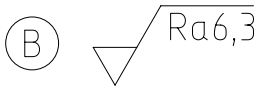
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SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK





Approved

Free space for lic.		Q-Code XXXXX	Main Drw.
		Standard ISO; JIS	

Modif.		Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date
	A	EAAD083260	30.09.2011	B	EAAD091567	23.11.2019						

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WIN GD
Winterthur Gas & Diesel

Product
W-2S

WEDGE
TO ENGINE SIDE STOPPER
Schraeger Keil

Units	mm kg	NX		Basic Material	W-FU-235-JR	Net Weight	3
Made	20.09.2010	jba029 Baumann		Scale	1:5	Size A4	Page 1/1
Chkd	23.12.2010	wwr001 Wroblewski		Design Group	9710	Material ID	107.411.233.001
Appd	23.12.2010	dst009 Strödecke				Drawing ID	107.411.233
						Rev.	B

ILD - INSTALLATION DRAWING - Internal

MIDS - WinGD X35-B - Engine Seating and Foundation (DG9710)

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2017-02-17	DRAWING SET	First web upload
2017-08-18	107.410.789	Spherical round nut drg - new revision
2019-05-22	107.411.235 DAAD020526 DAAD020531 DAAD076652 DAAD081136	Engine side stopper drgs – new revision Assembly drgs with horizontal drains - removed
2020-09-07	DAAD084090 DAAD084080 107.398.394 107.380.159 107.410.782 107.410.785 107.410.786 107.410.788 107.410.787 107.367.119 107.410.829 DAAD011552 107.411.231 107.411.232 107.411.244 107.411.245 107.411.233	Main and system drgs – new revision

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