Available executions

Execution No.	Material ID	Cylinder No.	Attribute 1: Foundation width	
			STD	NARROW
001	PAAD215698	5	X	
002	PAAD214975	6	X	
003	PAAD273810	7	X	
004	PAAD287859	8	X	

NOTE
The above executions can be configured using the Engine Configurator.
Detailed guidance for the executions is provided within the Marine Installation Manual (MIM). If a specific execution of interest is not shown in the above table, then it may still be under development or not available. For further information or in case of a project-specific request, WinGD must be contacted directly.

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Prod.								
	X52 X52DF	X52DF-1.1 X52DF-2.1	X52DF-A-1.0 X52DF-M-1.0					

Change History

Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code	E	C
–	sna102	mhu019	14.03.2023	CNAA003279	new Design		-	-

Approved

WIN GD
Winterthur Gas & Diesel

ENGINE SEATING/FOUNDATION

MIDS master drawing

separate BOM available

Dimension

Scale	–	NX	Units [mm] [kg]	Basic Material	Net Weight	0.001
Main Design			Design Group	9710	Q-Code XXXXX	Standard WDS
Qty per			A4	Item ID PTAA025302	Drawing Page/s	1/1

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SEQ NO	QTY	Item ID	Item Name / Dimension	Standard-ID	Basic Material	Net Weight
6	44	107.246.051.001	SPHERICAL ROUND NUT M48		34CrMo4	1.2
7	38	107.343.352.001	SEATING WASHER		34CrMo4 SCM 435	1.8
8	38	107.401.838.001	BUSH		34CrMo4 SCM 435	7.8
11	38	107.401.837.001	PIN		Rubber750	0.2
001	1	107.398.394.500	EPOXY RESIN			0.001
002	44	107.401.786.001	ELASTIC BOLT		34CrMo4 SCM 435	4.4
003	44	107.345.876.008	ROUND NUT M48		W-FA-42CrMo-QT	1.42
004	6	107.401.785.001	SLEEVE		34CrMo4 SCM 435	8.3
005	6	PAAD286932	BUSH		W-FA-34CrMo-QT	10.1
009	1	107.367.119.001	SEALING PIECE			0.001
010	6	107.401.836.001	JOINT DISC		Rubber750	0.05
012	2	PAAD214749	ENGINE SIDE STOPPER			20.3
013	2	PAAD214952	ENGINE SIDE STOPPER			20.3
016	4	107.325.275.001	FLAT BAR 45x25x450		St 37-2	3.8
017	1	PAAD216050	RIB		W-FU-235-J0	33.9
018	1	107.401.839	FITTING INSTRUCTIONS			

Prod.			
5 X52 5 X52DF	5 X52DF-1.1 5 X52DF-2.1	5 X52DF-A-1.0 5 X52DF-M-1.0	

Change History

Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code	E	C
E	sjo101	mhu019	12.02.2024	CNAA005240	Drawing updated	Approved	4	3
D	sna102	mhu019	07.11.2022	CNAA002687	Main Design/Drawing Introduced		4	3
C	sde101	mhu019	08.04.2019	EAAD090483	Legacy information. See corresponding ChangeNotice		4	3
-	20045800	bha009	23.12.2015	EAAD779402	-		-	-

WIN GD
Winterthur Gas & Diesel

ENGINE SEATING/FOUNDATION

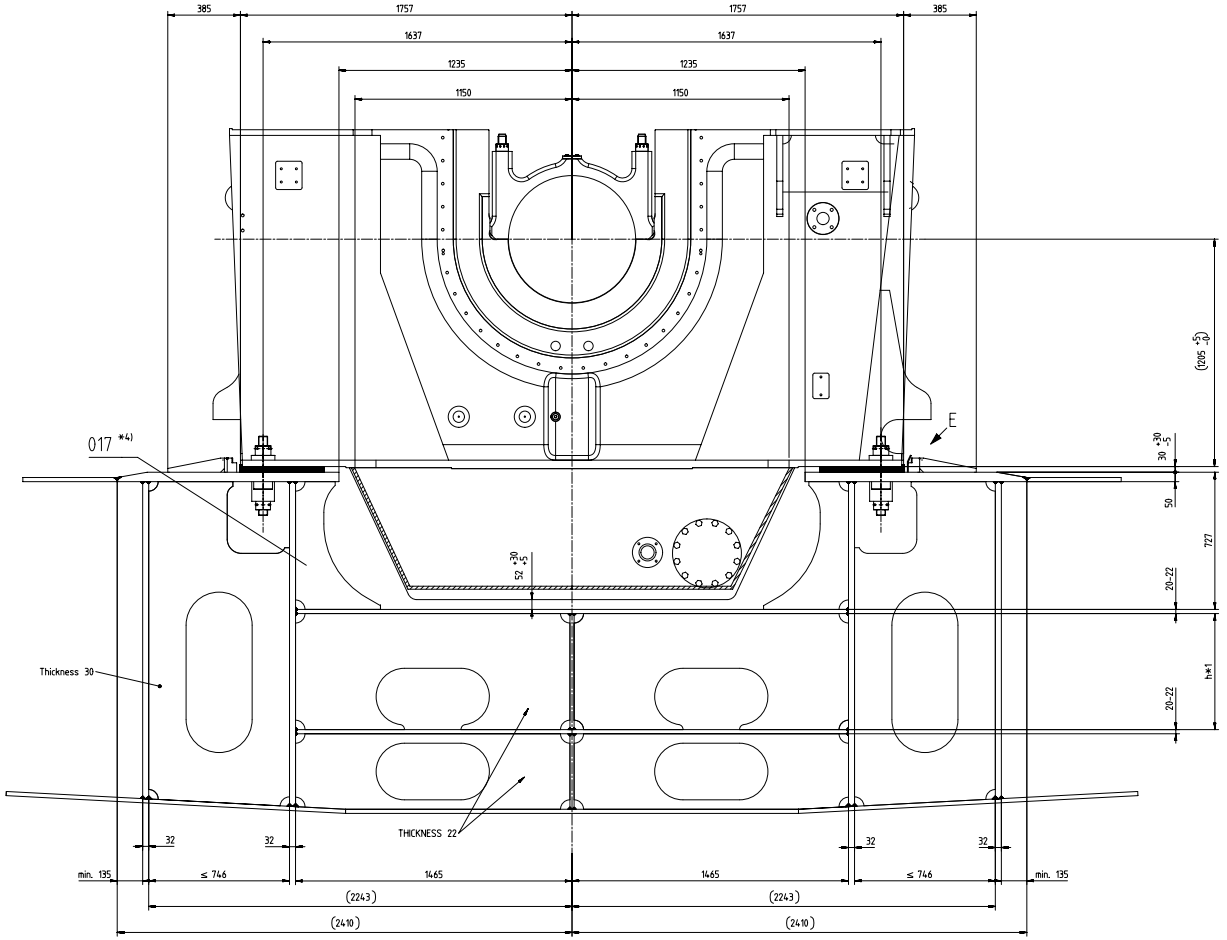
Bill Of Material

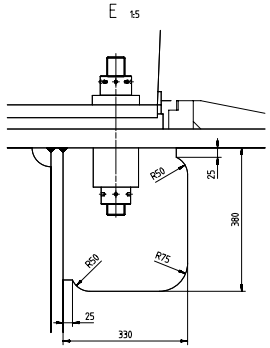
Dimension

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Units	[m] [kg]	Basic Material				Net Weight	922.3
Main Design	Yes	Design Group	9710	Q-Code	X X O	Standard	WDS
Qty per	Engine	A4	Item ID	PAAD215698		BOM Page/s	01/01

A–A 1:10
DRIVING END





REMARKS:

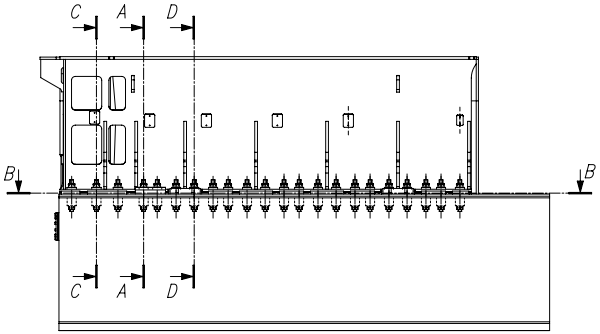
*1) HEIGHT TO BE DETERMINED BY SHIPYARD. FOR DIMENSIONS AND LAYOUT OF LUB. OIL DRAIN TANK AND DRAINS REFER TO DESIGN GROUP 9722

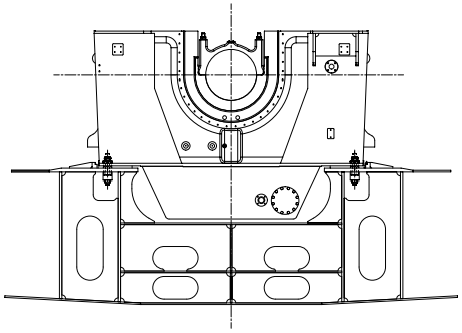
*2) CHOCK THICKNESS 30^{+30}_{-5} mm

- FINAL CHOCK THICKNESS TO BE DETERMINED BY SHIPYARD

*3) FINAL DISTANCES ACCORDING TO APPROPRIATE RULES

*4) QUANTITY DEPENDING ONSHIPYARD DESIGN





Change Status								
E	sjs101	mhu039	12.02.2024	CNA0035240	Drawing updated	4	3
D	sns102	mhu019	07.11.2022	CNAA002687	Main Design/Drawing introduced	4	3
C	sde101	mhu019	08.04.2019	EAAD090483	Legacy information. See corresponding ChangeNotice	4	3
–	20045898	mhu069	23.12.2015	EAAD779402	–	–	–

SX52 | SX52DF | SX52DF-A-1.0 | SX52DF-A1-1.0 | SX52DF-A2-1.0 | SX52DF-A3-1.0

Rev. | Creation | Approved | Approval Date | Change Nr. | Change Synopsis | Approved | Activity Code | #

WIN GD Winterthur Gas & Diesel

ENGINE SEATING/FOUNDATION

separate BOM available | Dimension

Scale 1:25 | NX | Units [mm] [kg] | Basic Material | Net Weight 922.3

Main Design Yes | Design Group 9710 | GoCode X X 0 | Standard WDS

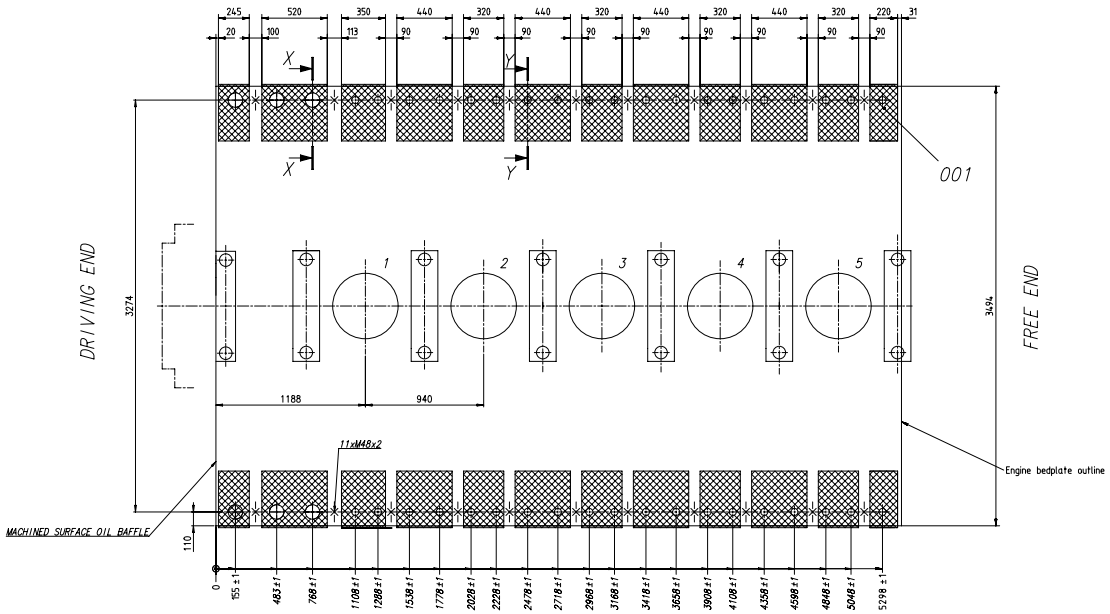
Qty per Engine A0 | Item ID PAAD215698 | Drawing Pagers 1/3

SURFACE PROTECTION SEE GROUP 9344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

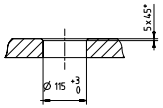
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B-B

CHOCK AND DRILLING PLAN FOR FOUNDATION BOLTS



X-X 1:5



Y-Y 1:5



REMARKS:

*1) For the layout is taken into consideration:
- A max. permissible static load of 0,8 N/mm².
- Engine holding down studs fully tightened according to fitting instructions
- Engine mass (incl. net engine mass, vibration damper, flywheel, water and oil)

*2) The max. permissible mean surface pressure of the epoxy resin chocks is to be determined by the shipyard in accordance with the relevant classification society/rules.

*3) Referring to a standardized chock thickness of 25 up to 60mm.

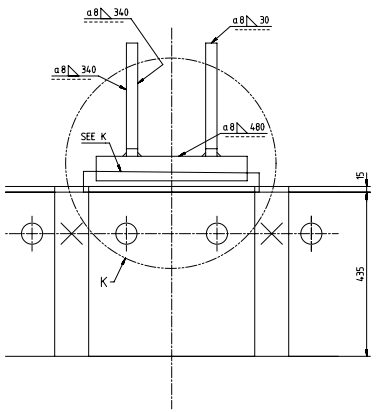
*4) with X marked positions represent jacking screws

TABLE : DIMENSIONS OF EPOXY RESIN CHOCKS *1)

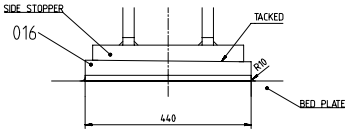
NO. OF CYLS.	MAX. PERM. MEAN SURFACE PRESSURE OF CHOCK *2)	TOTAL CHOCK LENGTH PER SIDE	TOTAL NET CHOCKING AREA	REQUIRED QUANTITY OF EPOXY RESIN MATERIAL *3)	
	N/mm²	mm	cm²	dm³ min.	dm³ max.
5	5	4355	36176	90	217

NO. OF CYLS.	TOTAL NO. OF HOLES	NO. OF THRUST SLEEVES
5	44	6

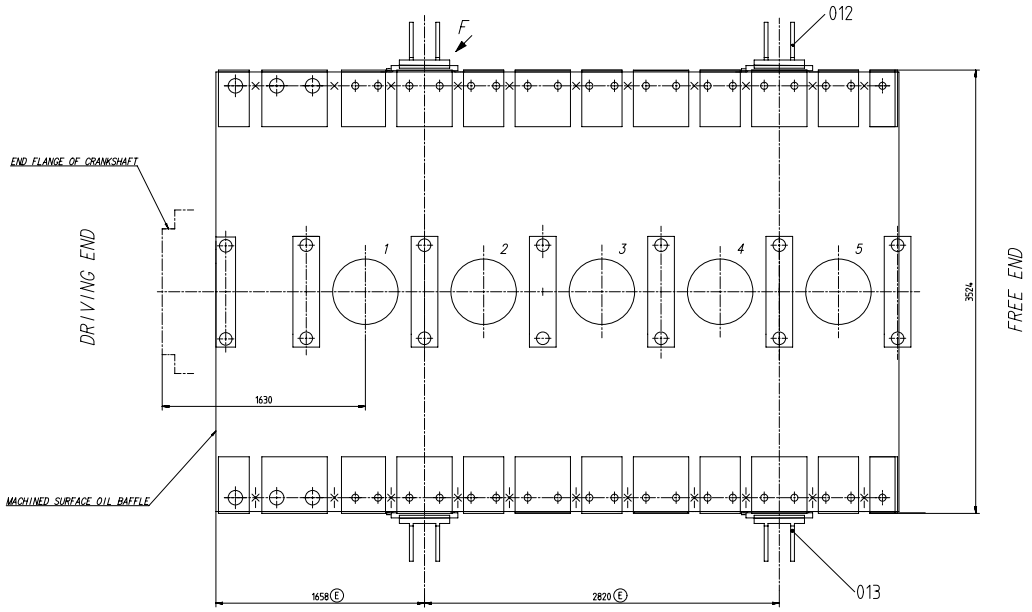
F 1:5



DETAIL K
SCALE 1:5



B-B



* SHOWN ON DRAWING
WELD QUALITY LEVEL D (SEE 4-107.345.444)

SURFACE PROTECTION SEE GROUP 6344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

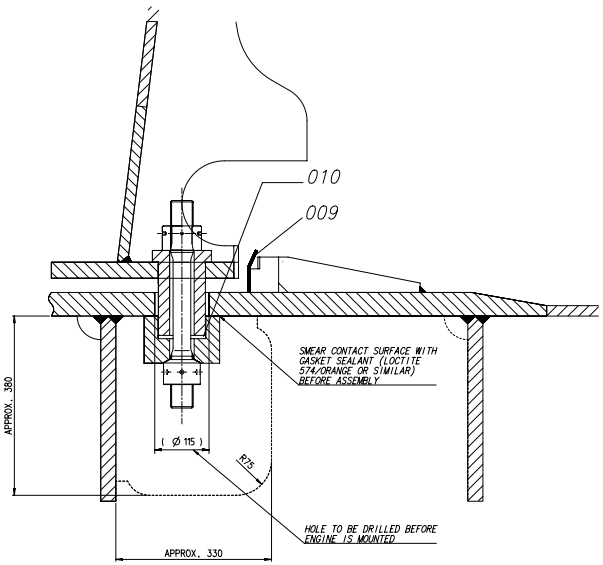
Index	Modification	Date	Drawing updated
E	sjp101	12.02.2020	

Drawing Number PAAD215698 | Drawing Pages 2/3 | Item ID | A0 | 1:25 | [mm] [kg] | NX

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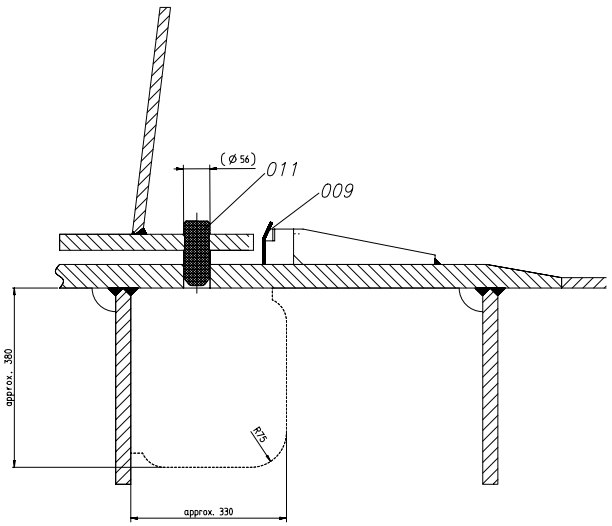
C-C

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOCK



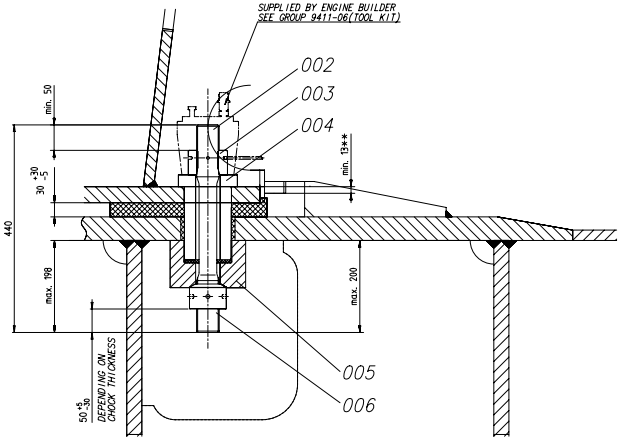
D-D

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOCK



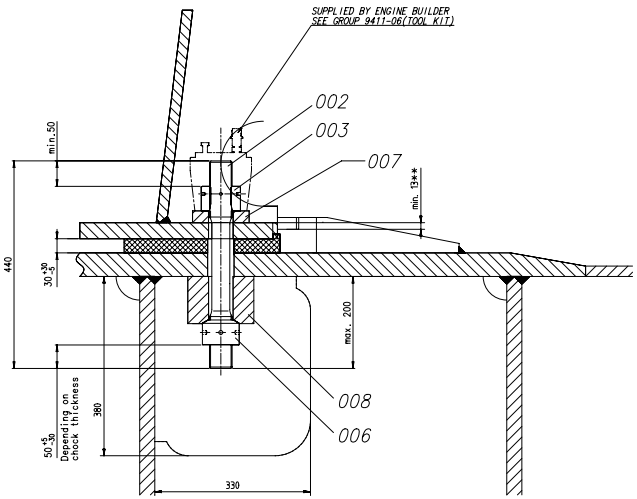
C-C

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOCK



D-D

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOCK



POS. 001-008 : THESE PARTS COVER A STANDARDIZED CHOCK THIKNESS FROM 25MM UP TO 60MM.
POS. 009-011: MATERIAL AND DESIGN DETERMINED BY SHIPYARD.

** contact surface between wedge and engine bedplate

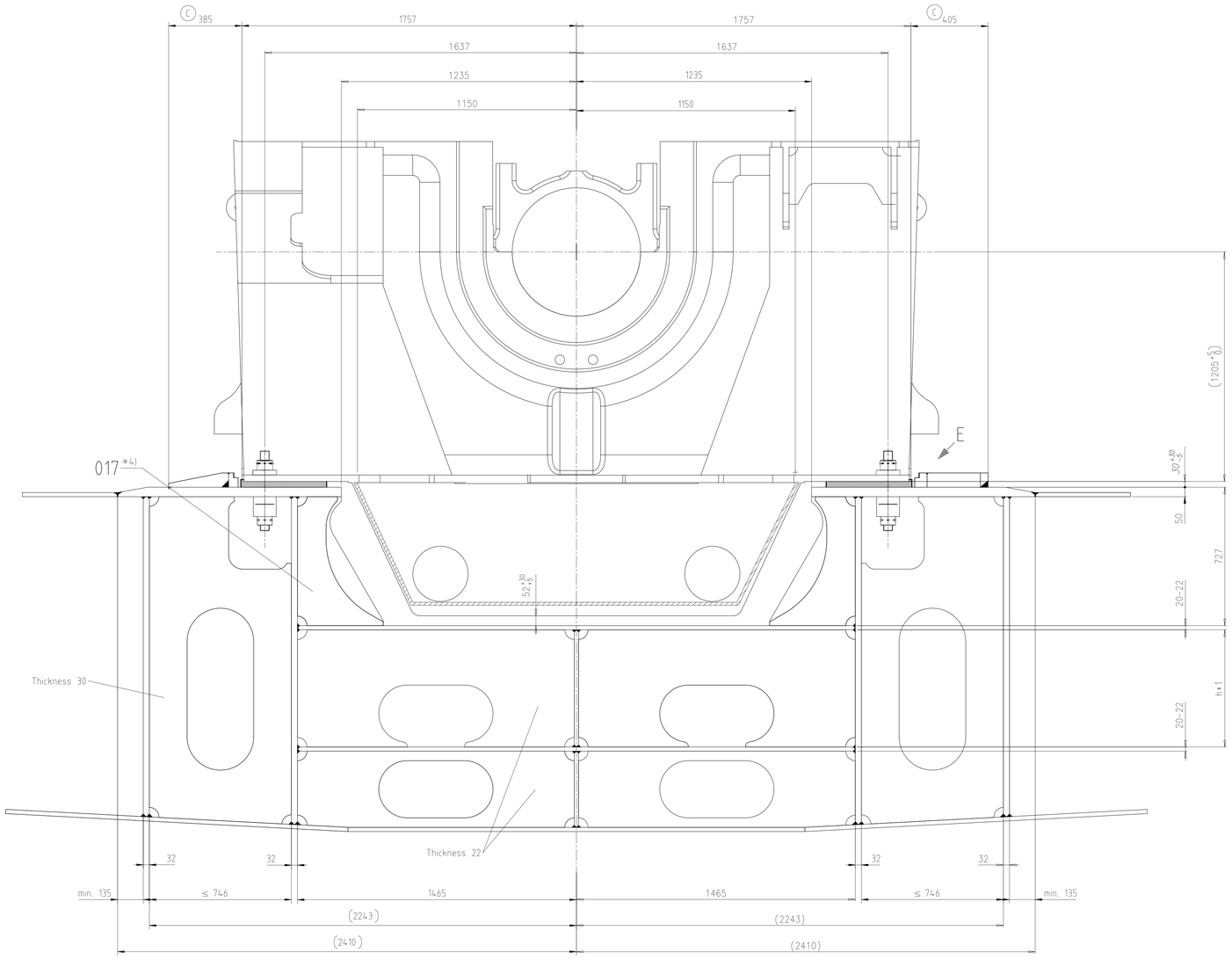
	3	E	ujp101	ahud.lib	12.03.2020	Drawing updated	4 3
	2					Change Remarks	Approved Activity Code K K
	1						

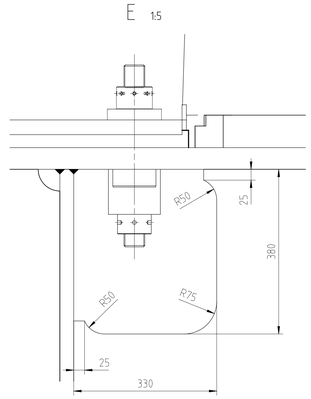
SURFACE FINISH according to PROTECTION SYSTEM GROUP 3344
TOLERANCE according to ISO 8015
GENERAL GENERAL STANDARDS according to DOC700-MK

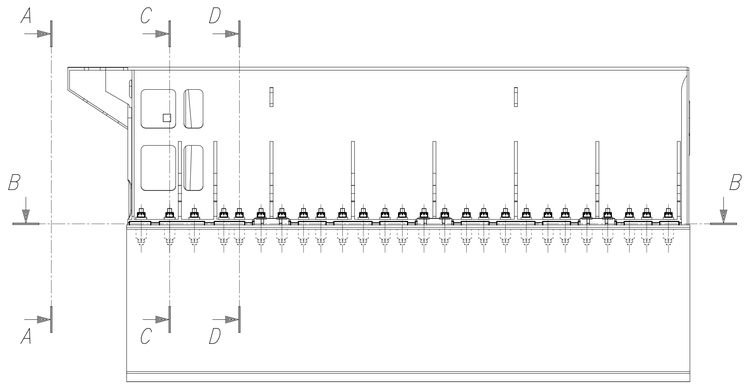
[mm] [kg] 1:25 | NX | A0 | Item ID | PAAD215698 | Drawing Page 3/3

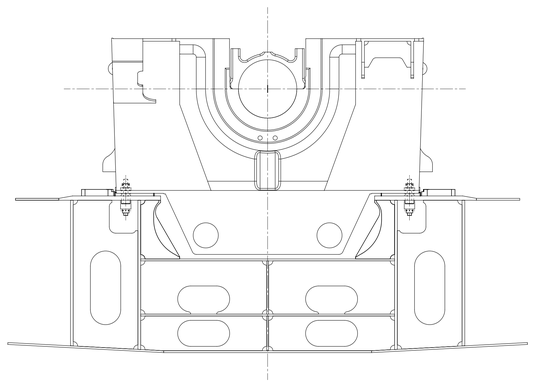
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A–A 1:10
DRIVING END









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

PAAD178299	6 Cyl	Execution with side stopper flame-cut type
PAAD214975	6 Cyl	Execution with side stopper welded type

Net Weight 1262	Net Weight 1105	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material Material Standard	Weight GR./NET
1	1	018	107.401.839.500	FITTING INSTRUCTIONS	107.401.839		0,001
1	1	017	PAAD216050	RIB	DAAD074125	W-FU-235-J0	33,9
6	6	016	107.325.275.001	WEDGE 45x25x450	107.325.275	St 37-2	3,8
3	–	015	PAAD214692	ENGINE SIDE STOPPER	DAAD073550	W-FU-235-JR	46,4
3	–	014	PAAD214691	ENGINE SIDE STOPPER	DAAD073549	W-FU-235-JR	46,4
–	3	013	PAAD214952	ENGINE SIDE STOPPER	DAAD073629		20,3
–	3	012	PAAD214749	ENGINE SIDE STOPPER	DAAD073571		20,3
46	46	011	107.401.837.001	PLUG	107.401.837	Rubber750	0,2
6	6	010	107.401.836.001	JOINT DISC	107.401.836	Rubber750	0,05
1	1	009	107.367.119.001	SEALING PIECE	107.367.119		0,001
46	46	008	107.401.838.001	BUSH	107.401.838	34CrMo4,SCM 435	7,8
46	46	007	107.343.352.001	SEATING WASHER	107.343.352	34CrMo4,SCM 435	1,8
52	52	006	107.246.051.001	SPHERICAL ROUND NUT	107.246.051	34CrMo4	1,2
6	6	005	PAAD286932	BUSH	DAAD097455	W-FA-34CrMo-QT	10,1
6	6	004	107.401.785.001	SLEEVE	107.401.785	34CrMo4,SCM 435	8,3
52	52	003	107.345.876.008	ROUND NUT M48	107.345.876	W-FA-42CrMo-QT	1,42
52	52	002	107.401.786.001	ELASTIC BOLT	107.401.786	34CrMo4,SCM 435	4,4
1	1	001	107.398.394.500	EPOXY RESIN	107.398.394		0,001

Quantity PER ENGINE

PAAD214975 / PAAD178299 — Material ID — Free space for ID

Q-Code XXXXX — Standard ISO; JIS — Main Drw. H

Mod	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD086353	18.01.2016	B EAAD087876	04.07.2017	C EAAD088933	28.02.2018		

Approved

WIN GD Winterthur Gas & Diesel

Product W6X52 W6X52DF

ENGINE SEATING/FOUNDATION
vertical and horizontal drain

standard engine seating

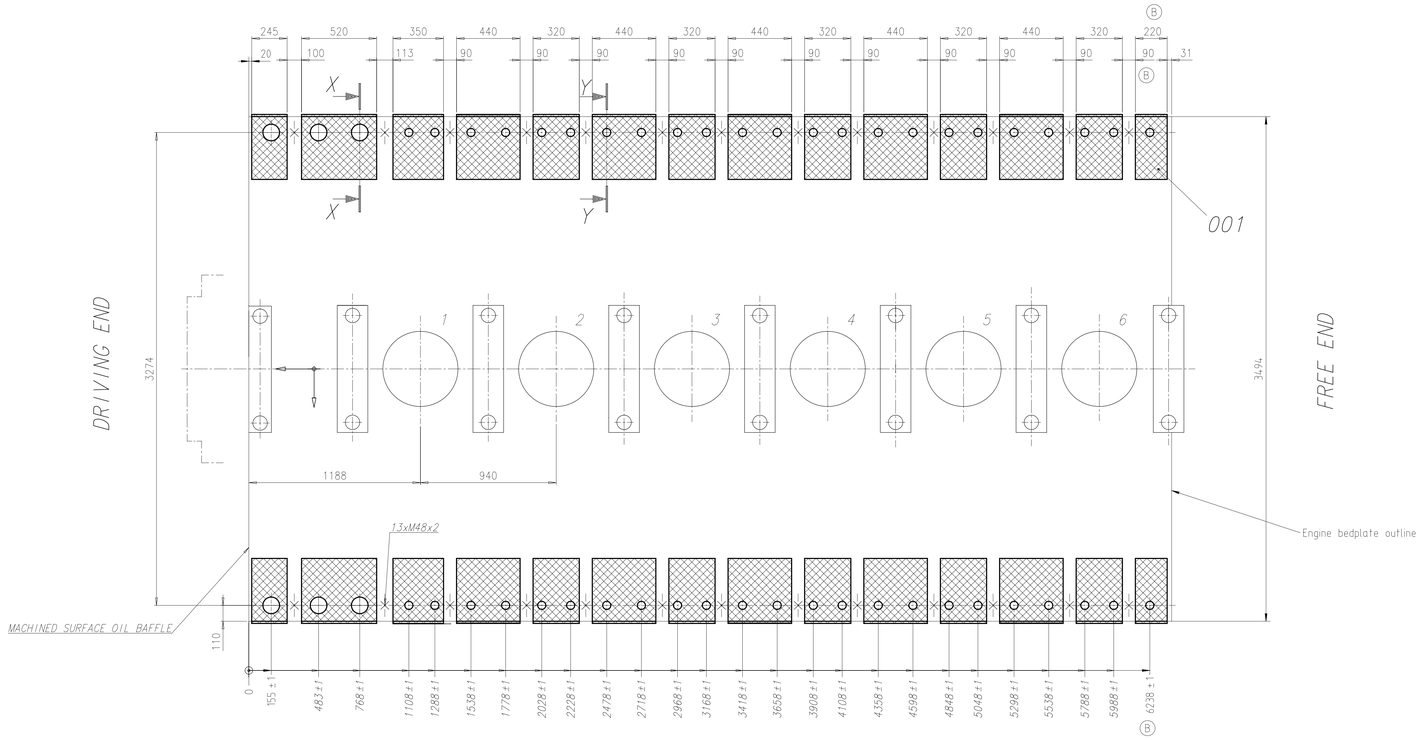
Units	mm kg	NX	Basic Material	Net Weight
Mod	16.12.2014 dkr021 DH.Kim		Scale 1:25	Size A0 Page 1/3 Material ID
Chkd	15.01.2015 mhs019 Hug		Design Group 9710	Drawing ID DAAD061793 Rev. C
Appd	16.01.2015 bha009 Haag			

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

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B-B

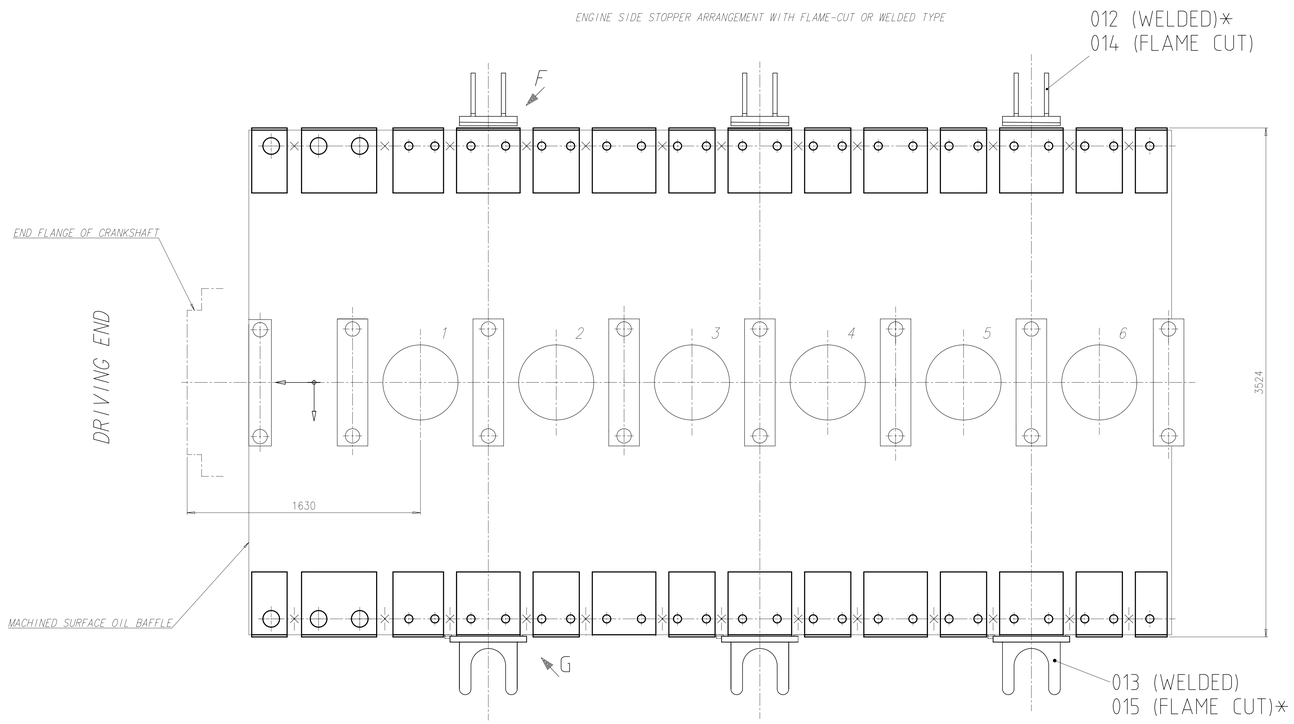
CHOCK AND DRILLING PLAN FOR FOUNDATION BOLTS



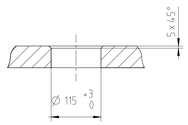
B-B

B-B

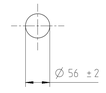
ENGINE SIDE STOPPER ARRANGEMENT WITH FLAME-CUT OR WELDED TYPE



X-X 1:5



Y-Y 1:5



REMARKS:

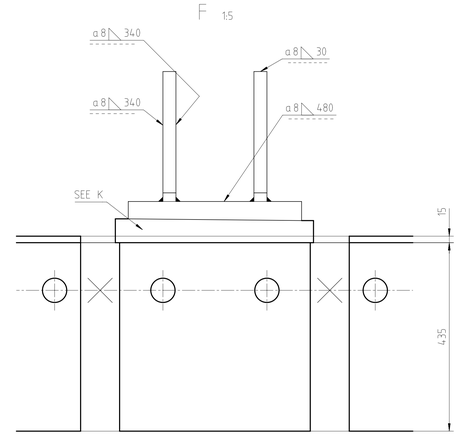
- *1) For the layout is taken into consideration:
  - A max. permissible static load of 0,8 N/mm².
  - Engine holding down studs fully tightened according to fitting instructions
  - Engine mass (incl. net engine mass, vibration damper, flywheel, water and oil)
- *2) The max. permissible mean surface pressure of the epoxy resin chocks is to be determined by the shipyard in accordance with the relevant classification society/rules.
- *3) Referring to a standardized chock thickness of 25 up to 60mm.
- *4) with × marked positions represent jacking screws

TABLE : DIMENSIONS OF EPOXY RESIN CHOCKS *1)

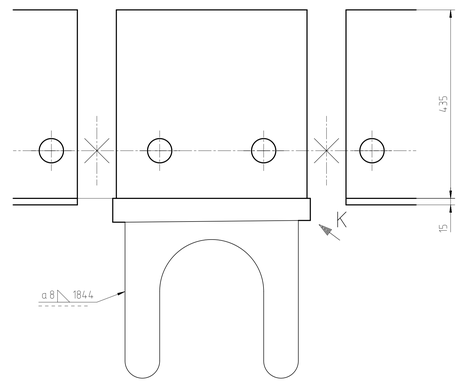
NO. OF CYLS.	MAX. PERM. MEAN SURFACE PRESSURE OF CHOCK *2)	TOTAL CHOCK LENGTH PER SIDE	TOTAL NET CHOCKING AREA	REQUIRED QUANTITY OF EPOXY RESIN MATERIAL *3)	
	N/mm²	mm	cm²	dm³ min.	dm³ max.
6	5	5115	42629	107	256

NO. OF CYLS.	TOTAL NO. OF HOLES	NO. OF THRUST SLEEVES
6	52	6

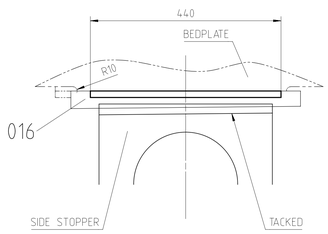
F 1:5



G 1:5



K 1:5



* SHOWN ON DRAWING

WELD QUALITY LEVEL D (SEE 4-107,345,444)

Prev. given for:												Q-Code XXXXX	Main Drw. H
Mod.	A	EAAD086353	18.01.2016	B	EAAD087876	04.07.2017	C	EAAD088933	28.02.2018			Standard ISO; JIS	
	Number		Drawn date	Number		Drawn date	Number		Drawn date	Number		Drawn date	

WIN GD Winterthur Gas & Diesel

Product: W6X52 W6X52DF

ENGINE SEATING/FOUNDATION
vertical and horizontal drain

standard engine seating

Units	mm kg	NX	Basic Material			Net Weight
Made	16.12.2014	dki021 DH.Kim	Scale 1:25	Size A0	Page 2/3	Material ID
Chkd	15.01.2015	mhu019 Hug	Design Group 9710	Drawing ID	DAAD061793	Rev. C
Appd	15.01.2015	bha009 Haag				

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

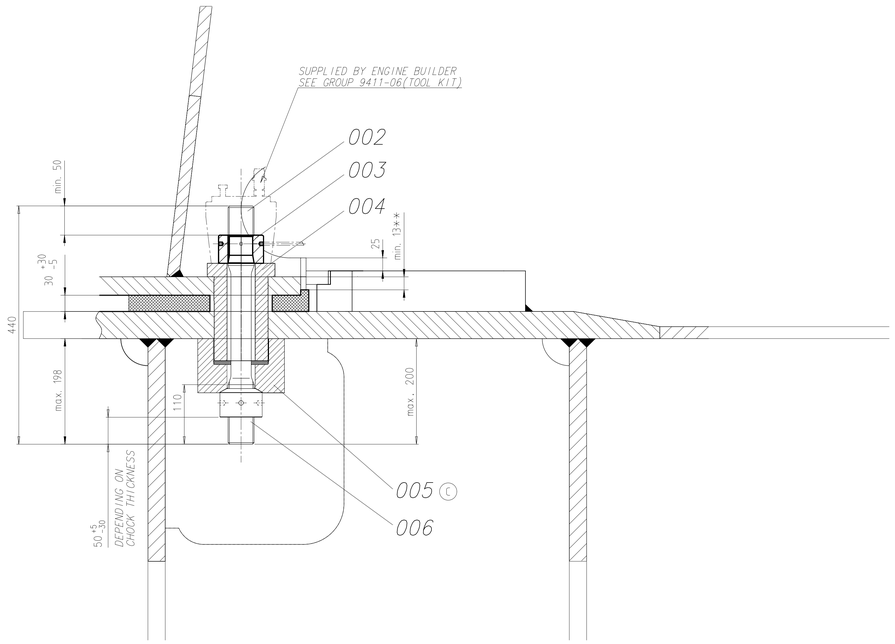
Approved

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ORIGINAL DRAWING - conforming

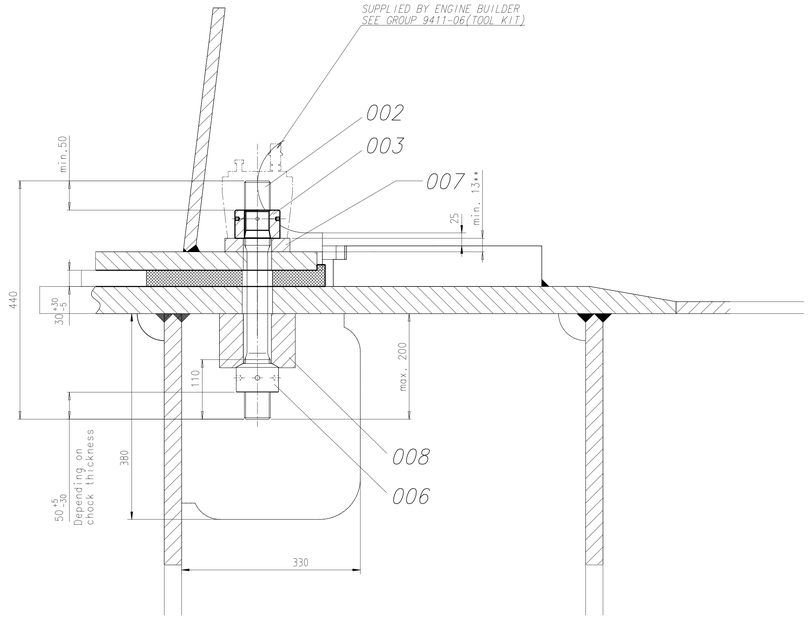
C–C

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOCK



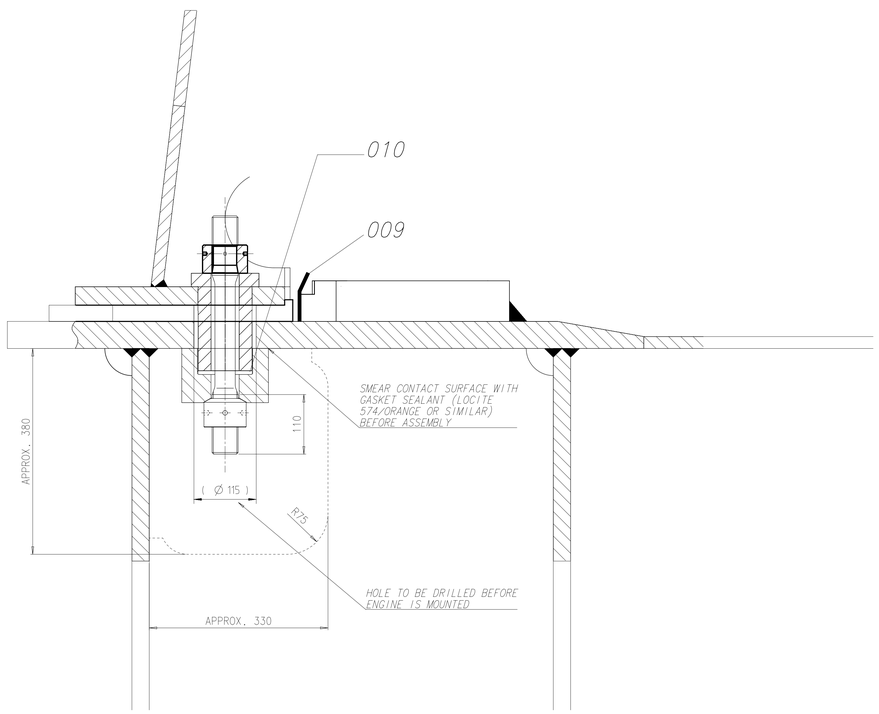
D–D

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOCK



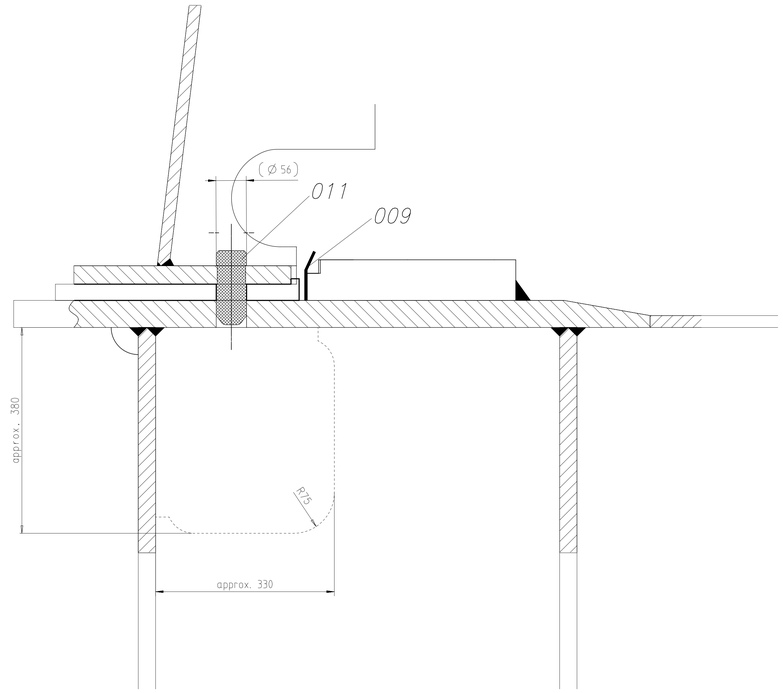
C–C

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOCK



D–D

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOCK



POS. 001-008 : THESE PARTS COVER A STANDARDIZED CHOCK THINKNESS
FROM 25MM UP TO 60MM.
POS. 009-011: MATERIAL AND DESIGN DETERMINED BY SHIPYARD.

** contact surface between
wedge and engine bedplate

Mod	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD086353	18.01.2016	B EAAD087876	04.07.2017	C EAAD088933	28.02.2018		

Prev. given for ...

Q-Code XXXXX
Standard ISO; JIS
Main Drw. H

WIN GD Winterthur Gas & Diesel

Product
W6X52
W6X52DF

ENGINE SEATING/FOUNDATION
vertical and horizontal drain

standard engine seating

Units	mm kg	NX	Basic Material	Net Weight
Made	16.12.2014 dki021 DH.Kim		Scale 1:25	Size A0	Page 3/3	Material
Chkd	15.01.2015 mhu019 Hug		Design Group 9710	Drawing ID DAAD061793	Rev. C
Appd	16.01.2015 bha009 Haag				

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

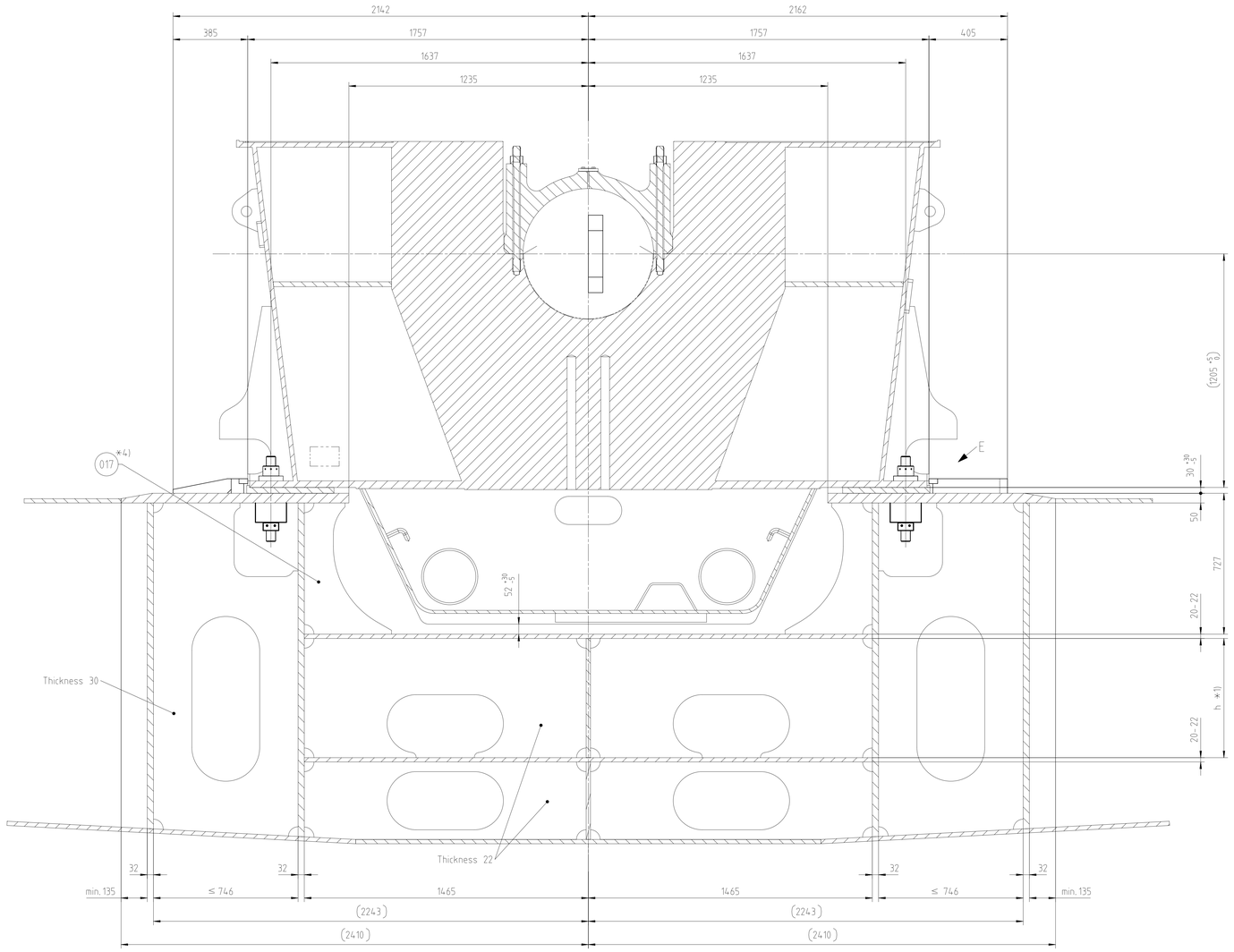
Approved

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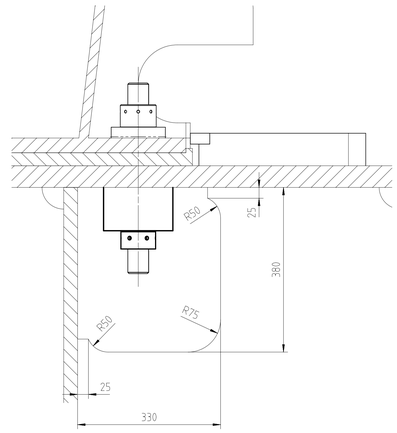
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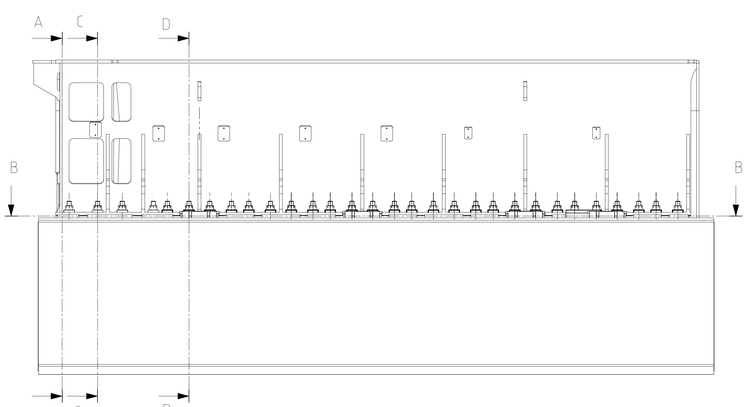
SECTION A-A
SCALE 1:10

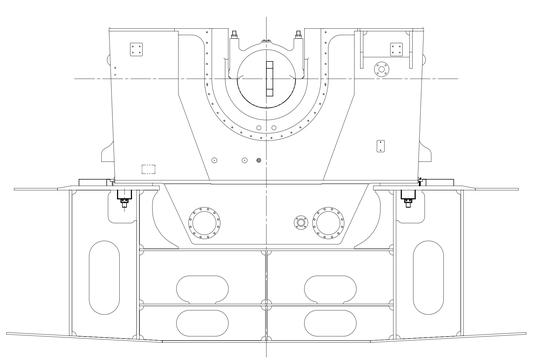
DRIVING END



DETAIL E
SCALE 1:5







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

PAAD273794	7 Cyl	Execution with side stopper flame-cut type
PAAD273810	7 Cyl	Execution with side stopper welded type

Net Weight 1305	Net Weight 1514	SEQ NO	Material ID	Material Name	Standard or Drawing	Basic Material Material Standard	Weight GR.NET
1	1	018	107.401.839.500	FITTING INSTRUCTIONS	107.401.839		0,001
1	1	017	PAAD216050	RIB	DAAD074125	W-FU-235-J0	33,9
8	8	016	107.325.275.001	WEDGE	107.325.275	W-FU-235-JR	3,8
-	4	015	PAAD214692	ENGINE SIDE STOPPER	DAAD073550	W-FU-235-JR	46,4
-	4	014	PAAD214691	ENGINE SIDE STOPPER	DAAD073549	W-FU-235-JR	46,4
4	-	013	PAAD214952	ENGINE SIDE STOPPER	DAAD073629		20,3
4	-	012	PAAD214749	ENGINE SIDE STOPPER	DAAD073571		20,3
52	52	011	107.401.837.001	PLUG	107.401.837		0,2
8	8	010	107.401.836.001	JOINT DISC	107.401.836		0,001
1	1	009	107.367.119.001	SEALING PIECE	107.367.119		0,001
52	52	008	107.401.838.001	BUSH	107.401.838	W-FA-34CrMo-QT	7,8
52	52	007	107.343.352.001	SEATING WASHER	107.343.352	W-FA-34CrMo-QT	1,8
60	60	006	107.246.051.001	SPHERICAL ROUND NUT	107.246.051	W-FA-34CrMo-QT	1,2
8	8	005	PAAD286932	BUSH	DAAD097455	W-FA-34CrMo-QT	10,1
8	8	004	107.401.785.001	SLEEVE	107.401.785	34CrMo4,SCM 435	8,3
60	60	003	107.345.876.008	ROUND NUT M48	107.345.876	W-FA-42CrMo-QT	1,42
60	60	002	107.401.786.001	ELASTIC BOLT	107.401.786	W-FA-34CrMo-QT	4,4
1	1	001	107.398.394.500	EPOXY RESIN	107.398.394		0,001

(A)

Quantity PER ENGINE | Material ID

PAAD273810
PAAD273794

Main Drw. H

Q-Code XXXXX
Standard ISO; JIS

Approved

Mod	Prev. issue for ...	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
	A	EAAD089872	17.09.2018						

WIN GD Winterthur Gas & Diesel

Product W7X52 W7X52DF

ENGINE SEATING/FOUNDATION
vertical and horizontal drains

standard engine seating

Units	mm kg	NX	Basic Material	Net Weight
Made	10.10.2017 dki021 DH.Kim		Scale 1:25	Size A0	Page 1/1	Material ID
Chkd	12.10.2017 wwa008 Wang		Design Group 9710	Drawing ID DAAD092634	Rev. A
Appd	12.10.2017 hdo002 Dörre				

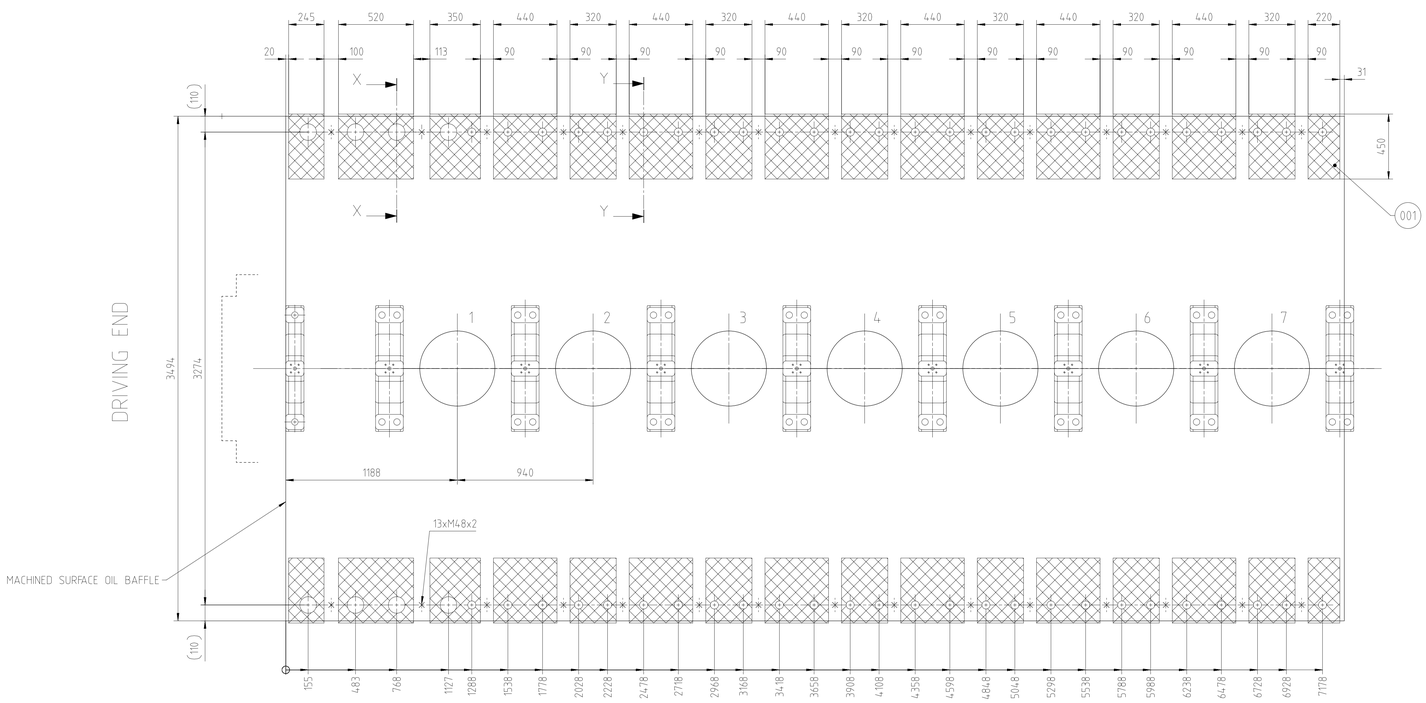
SURFACE PROTECTION SEE GROUP 9344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

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DIGITAL DRAWING - conforming

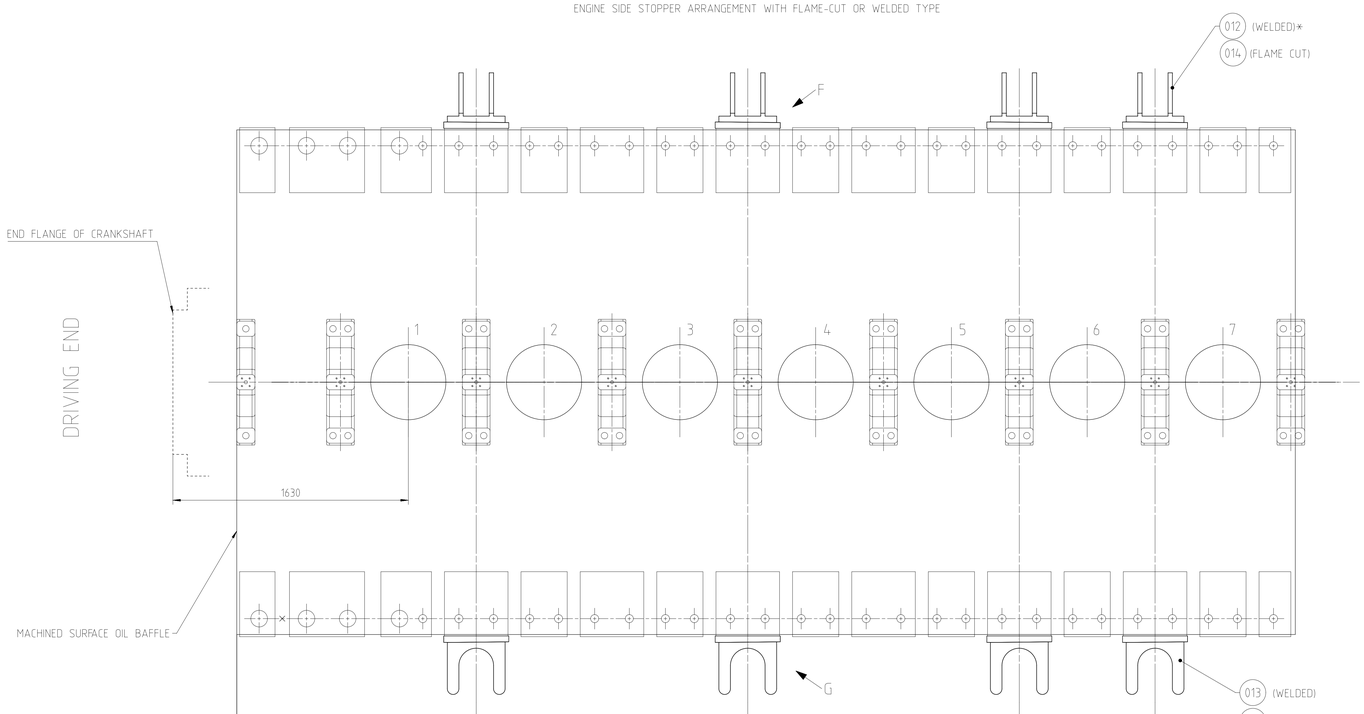
B-B

CHOCK AND DRILLING PLAN FOR FOUNDATION BOLTS



B-B

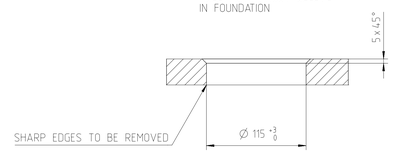
ENGINE SIDE STOPPER ARRANGEMENT WITH FLAME-CUT OR WELDED TYPE



X-X

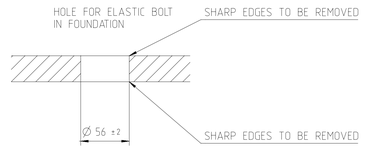
SCALE 1:2.5

HOLE FOR THRUST SLEEVE IN FOUNDATION



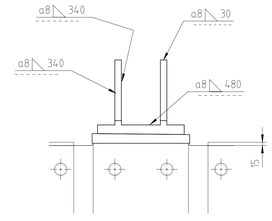
Y-Y

SCALE 1:2.5



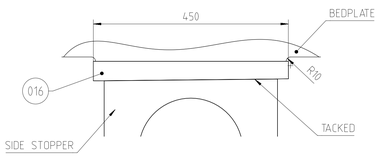
DETAIL F

SCALE 1:10



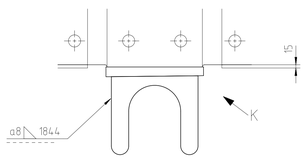
DETAIL K

SCALE 1:5



DETAIL G

SCALE 1:10



REMARKS:

- *1) For the layout is taken into consideration:*
  - *A max. permissible static load of 0,8 N/mm².*
  - *Engine holding down studs fully tightened according to fitting instructions*
  - *Engine mass (incl. net engine mass, vibration damper, flywheel, water and oil)*
- *2) The max. permissible mean surface pressure of the epoxy resin chocks is to be determined by the shipyard in accordance with the relevant classification society/rules.*
- *3) Referring to a standardized chock thickness of 25 up to 60mm.*
- *4) with ✕ marked positions represent jacking screws*

TABLE : DIMENSIONS OF EPOXY RESIN CHOCKS *1)

NO. OF CYLS.	MAX. PERM. MEAN SURFACE PRESSURE OF CHOCK *2)	TOTAL CHOCK LENGTH PER SIDE	TOTAL NET CHOCKING AREA	REQUIRED QUANTITY OF EPOXY RESIN MATERIAL *3)	
	N/mm²	mm	cm²	dm³ min.	dm³ max.
7	5	5895	49038	123	294

NO. OF CYLS.	TOTAL NO. OF HOLES	NO. OF THRUST SLEEVES
7	60	8

✳ SHOWN ON DRAWING

Free space for ...									Q-Code XXXXX	Main Dr. H	
Mod.	A	EAAD089872	17.09.2018						Standard ISO; JIS		
	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date			

WIN GD Winterthur Gas & Diesel

Product: W7X52 W7X52DF

ENGINE SEATING/FOUNDATION
vertical and horizontal drains

standard engine seating

Units mm kg	NX		Basic Material			Net Weight
SURFACE PROTECTION SEE GROUP 0344	Made	10.10.2017	dki021 DH.Kim	Scale 1:15	Size A0	Page 2/3	Material
TOLERANCING PRINCIPLE ISO8015	Chkd	12.10.2017	wwa008 Wang	Design Group 9710	Drawing ID DAAD092634		Rev. A
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	12.10.2017	hdo002 Dörre				

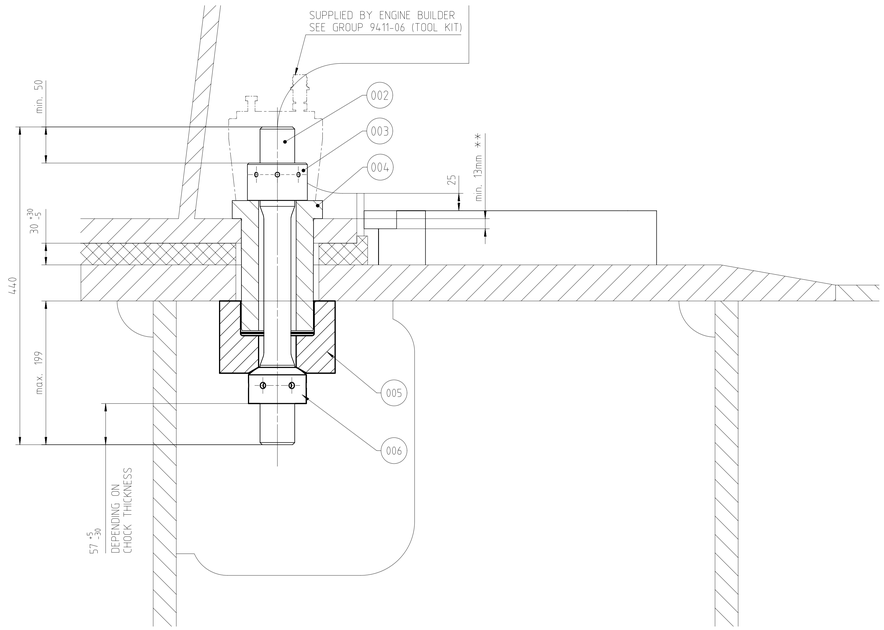
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Approved

DOC-PERSONAL SCHUNG - confidential

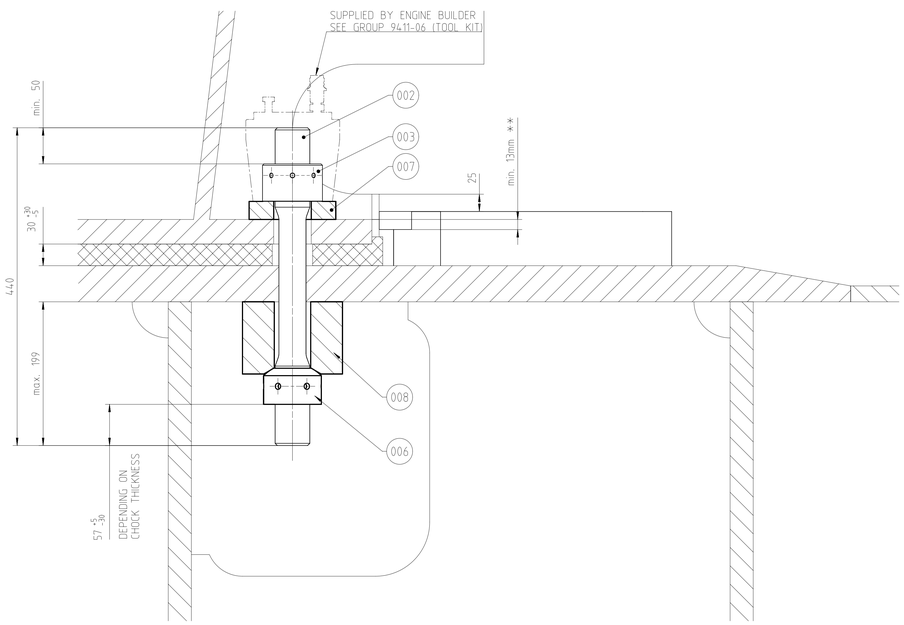
C-C

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOK



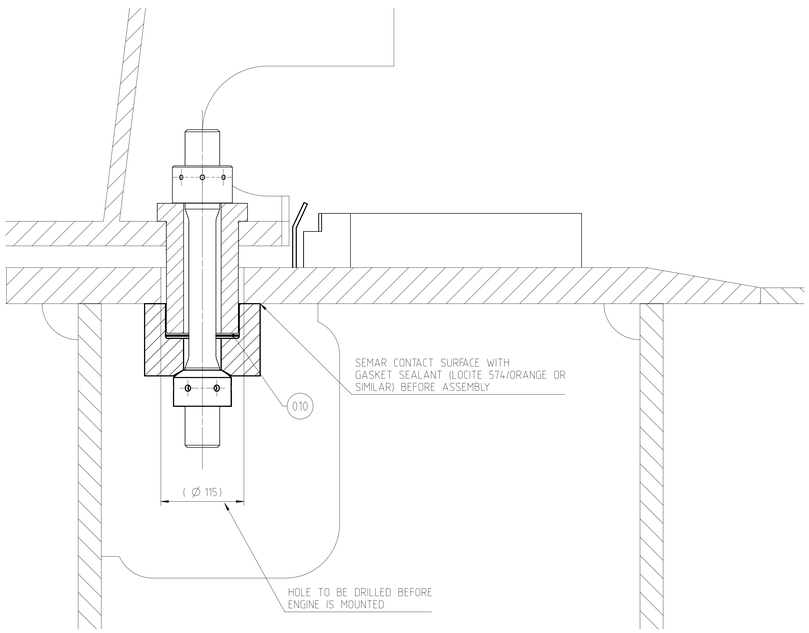
D-D

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOK



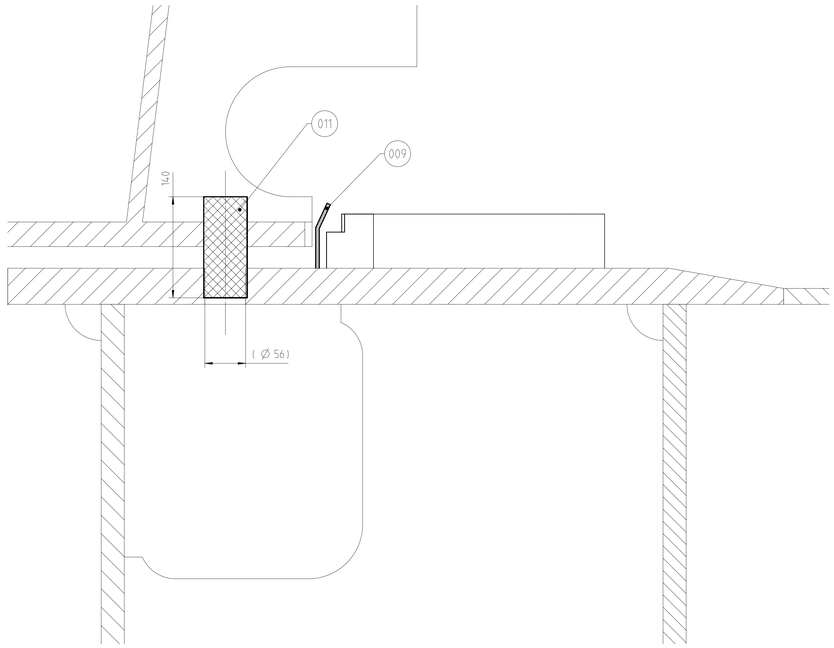
C-C

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOK



D-D

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOK



** CONTACT SURFACE BETWEEN WEDGE AND ENGINE BEDPLATE

Prev. issue for ref.									Q-Code XXXXX		Main Drw. H
Mod.	A	EAAD089872	17.09.2018						Standard ISO; JIS		
	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date			

WIN GD Winterthur Gas & Diesel

Product: W7X52 W7X52DF

ENGINE SEATING/FOUNDATION
vertical and horizontal drains

standard engine seating

Units	mm kg	NX	Basic Material		Net Weight
Made	10.10.2017	dki021 DH.Kim	Scale 1:3	Size A0	Page 3/3
Chkd	12.10.2017	wwa008 Wang	Design Group 9710	Drawing ID DAAD092634	Rev. A
Appd	12.10.2017	hdo002 Dörre			

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

Approved

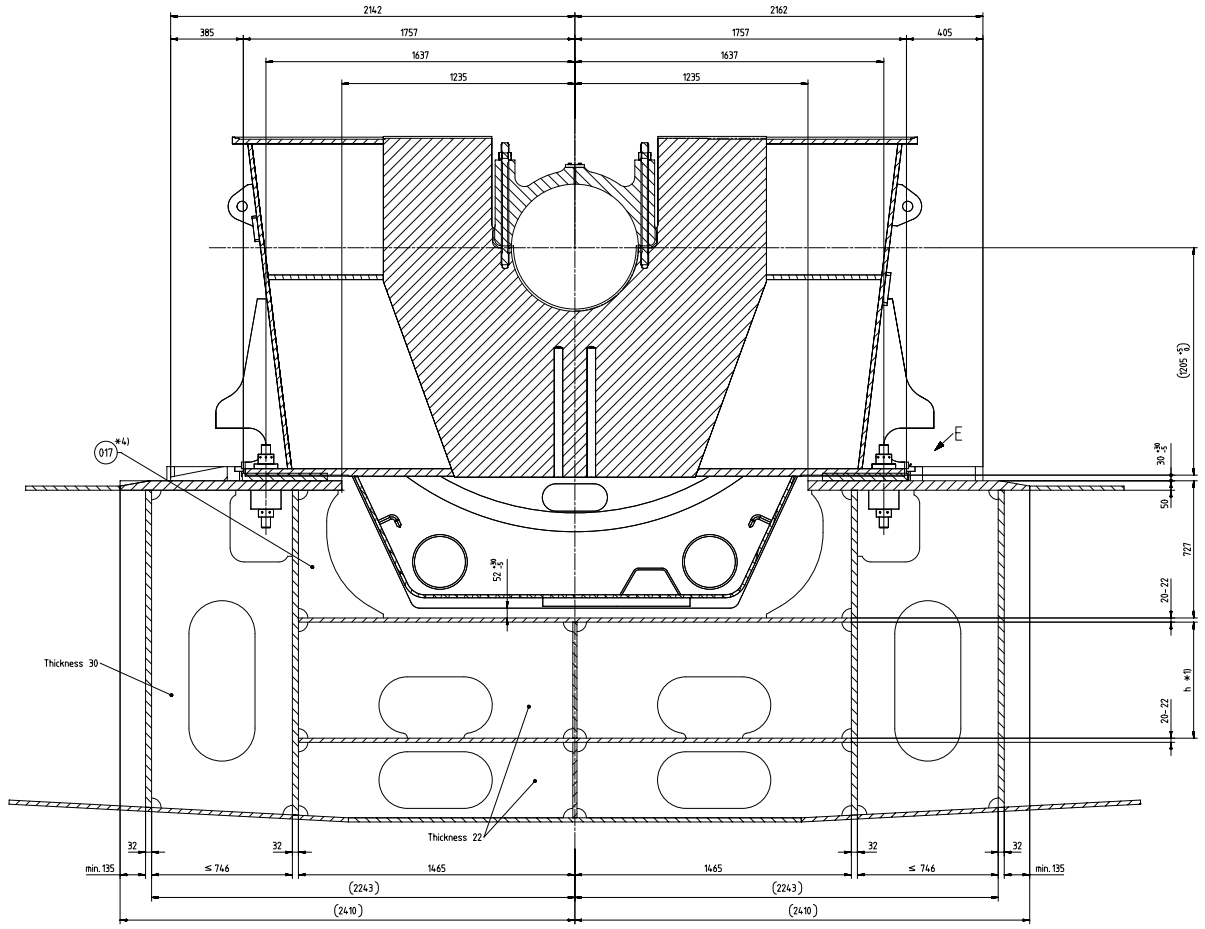
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CONTRACTUAL DRAWING – conforming

SECTION A-A

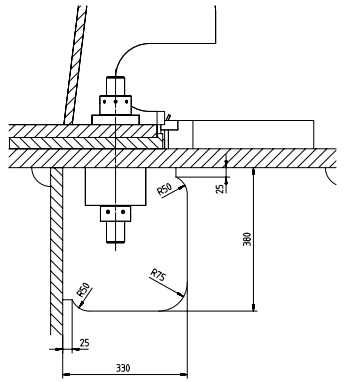
SCALE 1:10

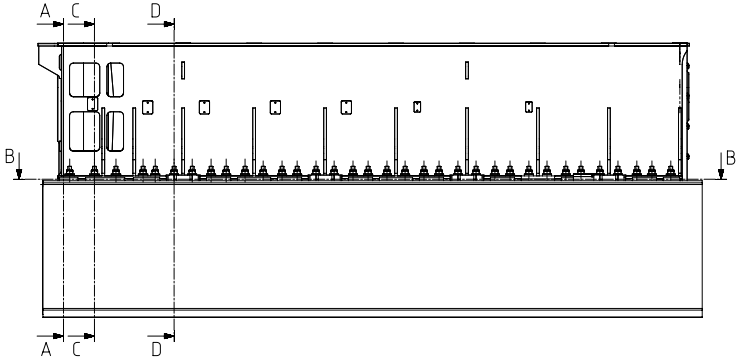
DRIVING END

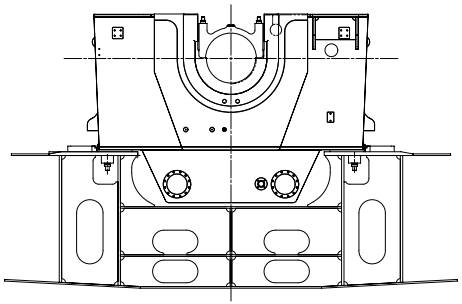


DETAIL E

SCALE 1:5







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*

PAAD287857	8 Cyl	Execution with side stopper flame-cut type
PAAD287859	8 Cyl	Execution with side stopper welded type

Net Weight 1438	1646						
1	1	018	107.401.839.500	FITTING INSTRUCTIONS	107.401.839		0,001
1	1	017	PAAD216050	RIB	DAAD074125	W-FU-235-J0	33,9
8	8	016	107.325.275.001	WEDGE	107.325.275	W-FU-235-JR	3,8
-	4	015	PAAD214692	ENGINE SIDE STOPPER	DAAD073550	W-FU-235-JR	46,4
-	4	014	PAAD214691	ENGINE SIDE STOPPER	DAAD073549	W-FU-235-JR	46,4
4	-	013	PAAD214952	ENGINE SIDE STOPPER	DAAD073629		20,3
4	-	012	PAAD214749	ENGINE SIDE STOPPER	DAAD073571		20,3
52	52	011	107.401.837.001	PLUG	107.401.837		0,2
8	8	010	107.401.836.001	JOINT DISC	107.401.836		0,001
1	1	009	107.367.119.001	SEALING PIECE	107.367.119		0,001
60	60	008	107.401.838.001	BUSH	107.401.838	W-FA-34CrMo-QT	7,8
60	60	007	107.343.352.001	SEATING WASHER	107.343.352	W-FA-34CrMo-QT	1,8
68	68	006	107.246.051.001	SPHERICAL ROUND NUT	107.246.051	W-FA-34CrMo-QT	1,2
8	8	005	107.401.787.001	BUSH	107.401.787	W-FA-34CrMo-QT	10,1
8	8	004	107.401.785.001	SLEEVE	107.401.785	34CrMo4,SEM 435	8,3
68	68	003	107.345.876.008	ROUND NUT M48	107.345.876	W-FA-42CrMo-QT	1,42
68	68	002	107.401.786.001	ELASTIC BOLT	107.401.786	W-FA-34CrMo-QT	4,4
1	1	001	107.398.394.500	EPOXY RESIN	107.398.394		0,001

Quantity PER ENGINE	SEG NO	Material ID	Material Name / Dimension, Qty	Drawing or Drawing	Basic Material Material Standard	Weight GR/NET
					G-Code XXXXX	Main Dim. H
PAAD287859 PAAD287857					Standard ISO, JIS	

Mat. Number / Drawn date / Number / Drawn date / Number / Drawn date / Number / Drawn date

WINGD Winterthur Gas & Diesel

Product W8X52DF W8X52

ENGINE SEATING/FOUNDATION
vertical and horizontal drains

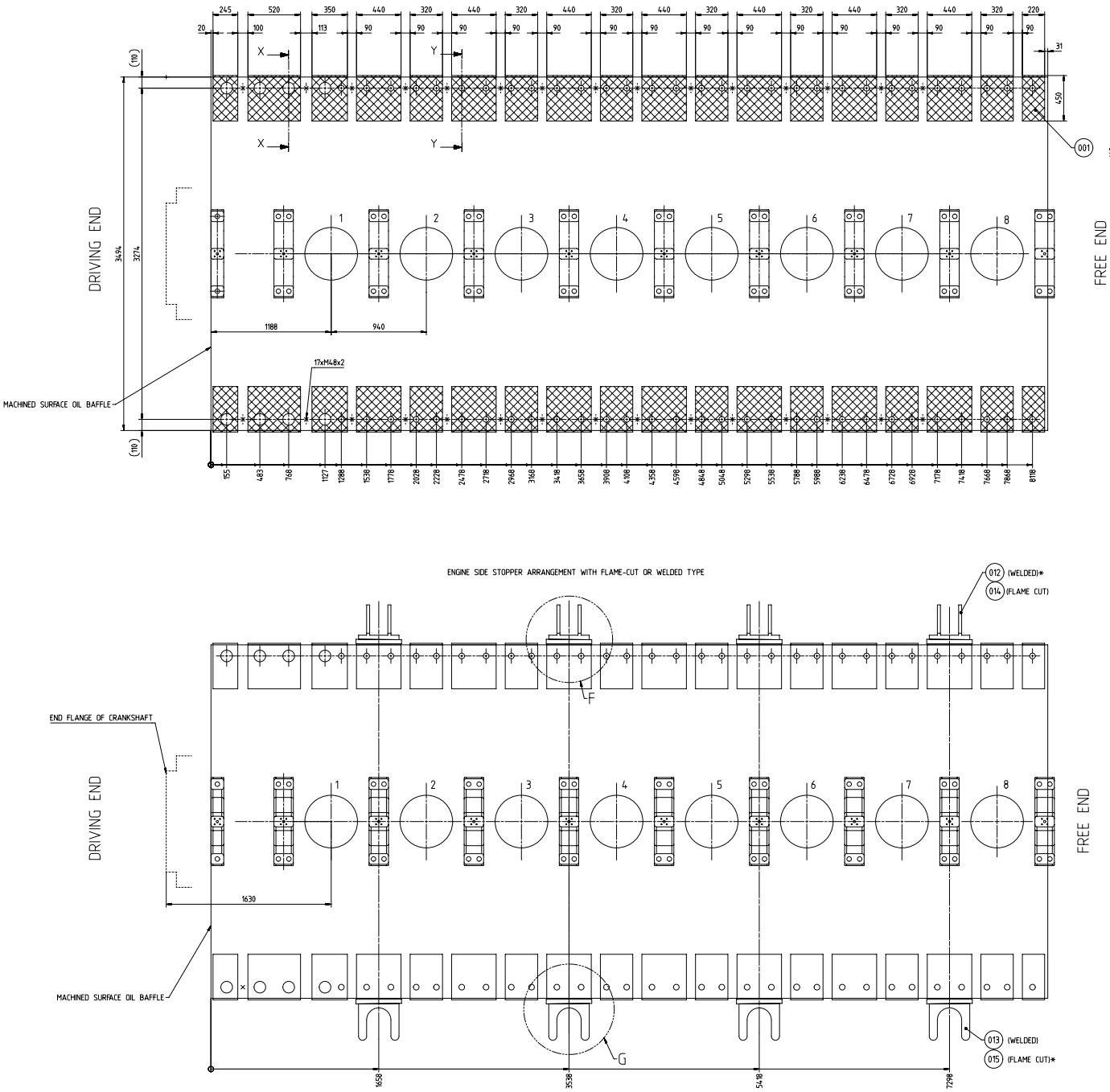
Units mm kg N/K | Basic Material | Net Weight

SURFACE PROTECTION SEE GROUP 9344	Made	09.03.2018 Sudant Deogade	Scale 1:25	Size A0	Page 1/3	Material ID
TOLERANCING PRINCIPLE ISO8015	Chkd	27.04.2018 wwa008 Wang	Design Group ID 9710	Drawing ID DAAD097802		Rev. –
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	03.05.2018 stiu019 Hug				

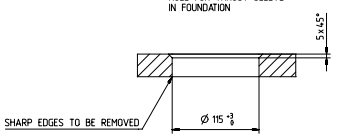
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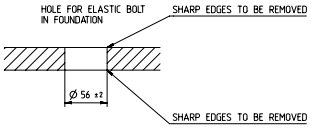
CHOCK AND DRILLING PLAN FOR FOUNDATION BOLTS



SECTION X-X



SECTION Y-Y



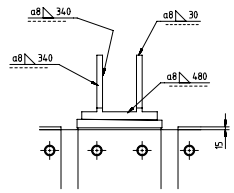
REMARKS:

- *1) For the layout is taken into consideration:
  - A max. permissible static load of 0,8 N/mm².
  - Engine holding down studs fully tightened according to fitting instructions
  - Engine mass (incl. net engine mass, vibration damper, flywheel, water and oil)
- *2) The max. permissible mean surface pressure of the epoxy resin chocks is to be determined by the shipyard in accordance with the relevant classification society/rules.
- *3) Referring to a standardized chock thickness of 25 up to 60mm.
- *4) with ✕ marked positions represent jacking screws

TABLE : DIMENSIONS OF EPOXY RESIN CHOCKS *1)

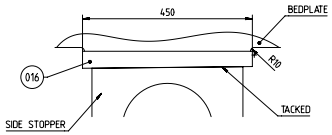
NO. OF CYLS.	MAX. PERM. MEAN SURFACE PRESSURE OF CHOCK *2)	TOTAL CHOCK LENGTH PER SIDE	TOTAL NET CHOCKING AREA	REQUIRED QUANTITY OF EPOXY RESIN MATERIAL *3)	
	N/mm²	mm	cm²	dm³ min.	dm³ max.
8	5	6655	55447	144	345

NO. OF CYLS.	TOTAL NO. OF HOLES	NO. OF THRUST SLEEVES
8	68	8



DETAIL K

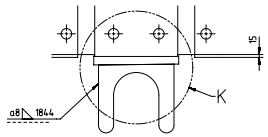
SCALE 1:5



ENGINE SIDE STOPPER ARRANGEMENT WITH FLAME-CUT OR WELDED TYPE

DETAIL G

SCALE 1:10



✱ SHOWN ON DRAWING

Prep. respon. for ¾"		G-Code	Main Dr.*
		XXXXX	H
		Standard	
		ISO, JIS	

Mark	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date

WinGD Winterthur Gas & Diesel

Product: W8X52DF W8X52

ENGINE SEATING/FOUNDATION
vertical and horizontal drains
standard engine seating

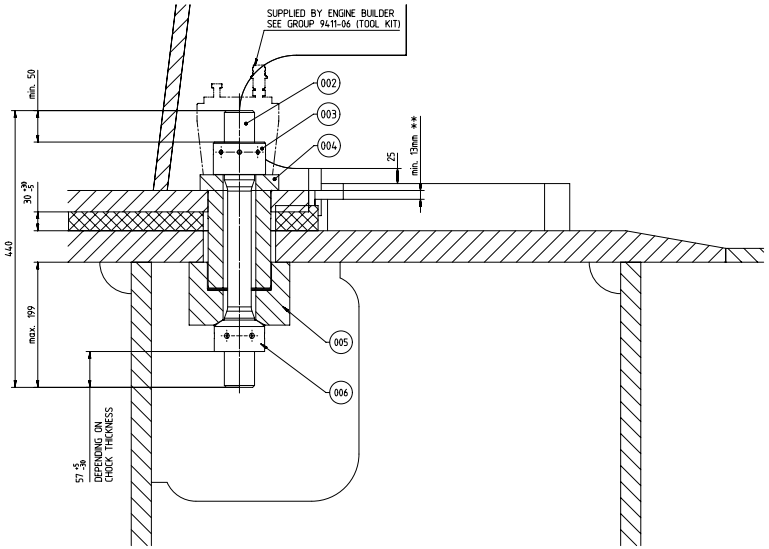
Units	mm kg	NX	Basic Material	Net Weight

SURFACE PROTECTION SEE GROUP 9744	Made	09.03.2018	Sudant Deogade	Scale 1:15	Size A0	Page 2/3
TOLERANCING PRINCIPLE ISO8015	Chkd	27.04.2018	wwa008 Wang	Design Group 9710	Material ID	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	03.05.2018	mlu019 Hug	Drawing ID DAAD097802	Rev.	–

Approved
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INTERNAL WORK

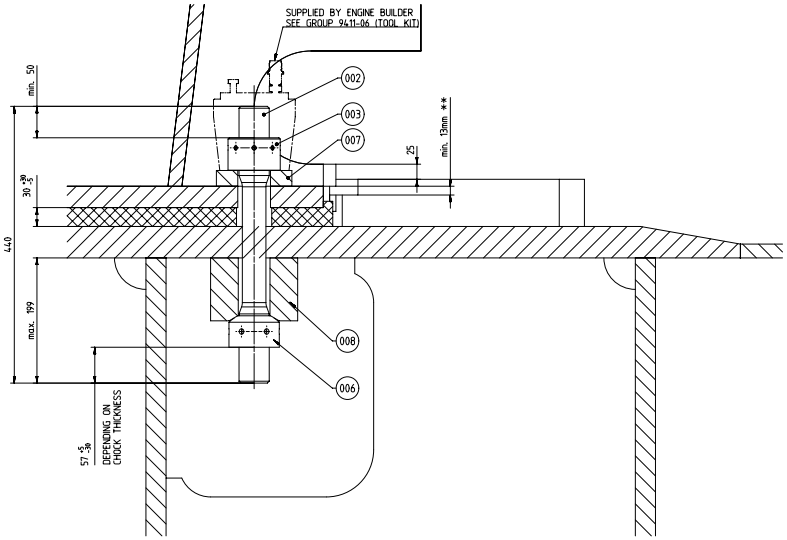
C-C

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOK



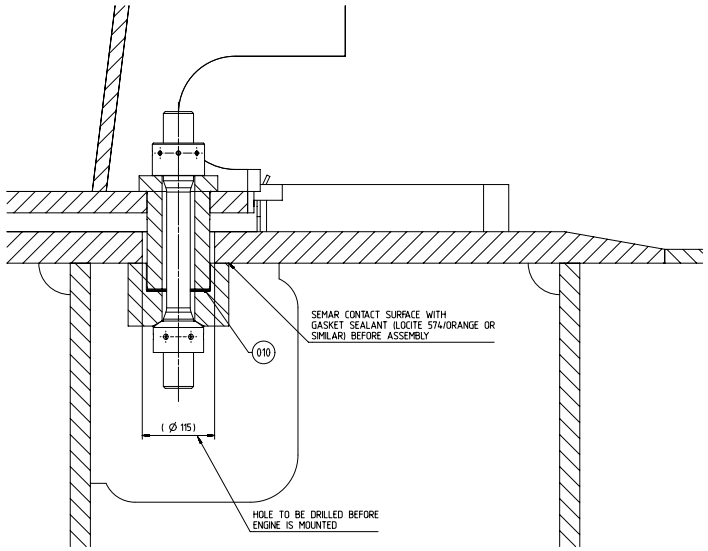
D-D

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOK



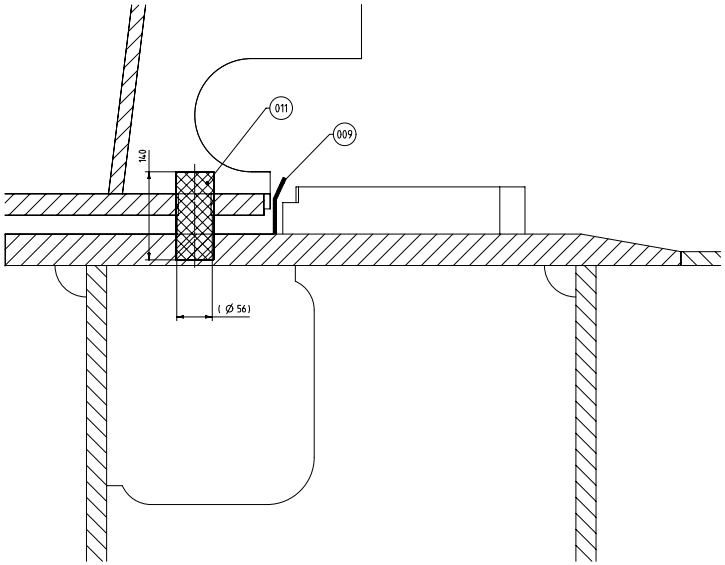
C-C

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOK



D-D

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOK



** CONTACT SURFACE BETWEEN WEDGE AND ENGINE BEDPLATE

Rev. reason for ch.										G-Code XXXXX	Main Drv. H
										Standard ISO, JIS	
Mark		Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date

WINGD Winterthur Gas & Diesel

Product W8X52DF W8X52

ENGINE SEATING/FOUNDATION
vertical and horizontal drains

standard engine seating

Units	mm kg	NX		Basic Material			Net weight
SURFACE PROTECTION SEE GROUP 9344	Made	09.03.2018 Sudant Deogade	Scale	1:3	Size A0	Page 3/3	Material C
TOLERANCING PRINCIPLE ISO8015	Chkd	27.04.2018 wwa008 Wang	Design Group	9710	Drawing ID	DAAD097802	Rev. –
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	03.05.2018 mlu019 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

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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

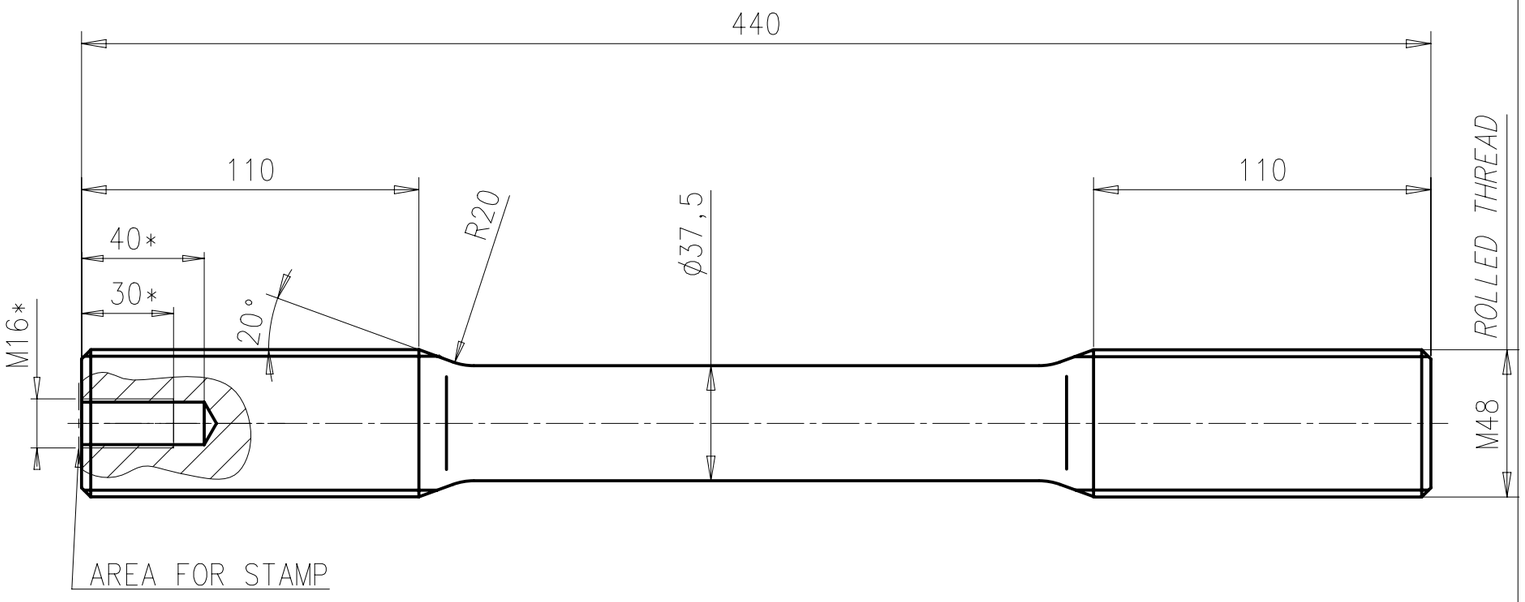
Product: W-2S

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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AREA FOR STAMP

*Optional for installation

Ra3.2

MACHINED BEFORE THREAD ROLLING

Rm = 800 $^{+150}_{0}$ N/mm^2
QUENCH HARDENED AND TEMPERED

Re = min. 550 N/mm^2
YIELD POINT

A(Lo = 5do) = min. 14%
ELONGATION AT BREAK

ISO-V = 45J (Temp. 20°C)
IMPACT ENERGY

* 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

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					EAAD088473	12.10.2017		

WIN GD Winterthur Gas & Diesel

Product: W-2S

ELASTIC BOLT

Dehnbolzen

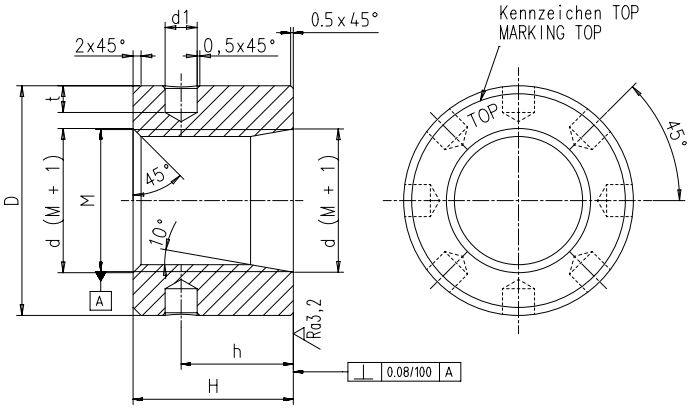
Units	mm kg	NX	Basic Material	Net Weight
			W-FA-34CrMo-QT	4,4

SURFACE PROTECTION SEE GROUP 0344	Made 27.06.2008 M.PRSTEC	Scale 1:2	Size A3	Page 1/1	Material ID 107.401.786.001
TOLERANCING PRINCIPLE ISO8015	Chkd	Design Group 9710	Drawing ID 107.401.786		Rev. C
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd 03.07.2008 MPR002 Prstec				

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POS.	M	D	d	H	h	d1	t
001	M27	47	28	29	20	$6\ ^{+0.2}_{0}$	7
002	M30	52	31	33	23	$6\ ^{+0.2}_{0}$	7
003	M33	57	34	36	25	$6\ ^{+0.2}_{0}$	7
004	M36	62	37	39	27	$6\ ^{+0.2}_{0}$	7
005	M39	67	40	42	29	$6\ ^{+0.2}_{0}$	7
006	M42	73	43	46	32	$6\ ^{+0.2}_{0}$	7
007	M45	78	46	49	34	$6\ ^{+0.2}_{0}$	7
008	M48	83	49	52	36	$6\ ^{+0.2}_{0}$	7
009	M52	90	53	56	39	$6\ ^{+0.2}_{0}$	7
010	M56	97	57	61	43	$9.5\ ^{+0.2}_{0}$	10
011	M60	104	61	65	46	$9.5\ ^{+0.2}_{0}$	10
012	M64	110	65	70	49	$9.5\ ^{+0.2}_{0}$	10
013	M68	117	69	74	52	$9.5\ ^{+0.2}_{0}$	10
014	M72	124	73	78	55	$9.5\ ^{+0.2}_{0}$	10
015	M76	131	77	82	57	$9.5\ ^{+0.2}_{0}$	10
016	M80	138	81	87	61	$14\ ^{+0.2}_{0}$	15
017	M85	146	86	92	64	$14\ ^{+0.2}_{0}$	15
018	M90	155	91	98	69	$14\ ^{+0.2}_{0}$	15
019	M95	164	96	103	72	$14\ ^{+0.2}_{0}$	15
020	M100	172	101	108	76	$14\ ^{+0.2}_{0}$	15

Ra6,3 (Ra3,2)

MATERIAL:	42CrMo4 (ISO)	SCM440 (JIS)
D >40 – ≤100	vergütet Rm = 900–1100 N/mm² HEAT TREATED	
D >100 – ≤160	vergütet Rm = 800–950 N/mm² HEAT TREATED	
D >160 – ≤250	vergütet Rm = 750–900 N/mm² HEAT TREATED	

QTY	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET
1	020	107.345.876.020	ROUND NUT M100	107.345.876	W-FA-42CrMo-QT	13,2
1	019	107.345.876.019	ROUND NUT M95	107.345.876	W-FA-42CrMo-QT	11,4
1	018	107.345.876.018	ROUND NUT M90	107.345.876	W-FA-42CrMo-QT	9,7
1	017	107.345.876.017	ROUND NUT M85	107.345.876	W-FA-42CrMo-QT	8,1
1	016	107.345.876.016	ROUND NUT M80	107.345.876	W-FA-42CrMo-QT	6,8
1	015	107.345.876.015	ROUND NUT M76	107.345.876	W-FA-42CrMo-QT	5,9
1	014	107.345.876.014	ROUND NUT M72	107.345.876	W-FA-42CrMo-QT	5,0
1	013	107.345.876.013	ROUND NUT M68	107.345.876	W-FA-42CrMo-QT	4,2
1	012	107.345.876.012	ROUND NUT M64	107.345.876	W-FA-42CrMo-QT	3,5
1	011	107.345.876.011	ROUND NUT M60	107.345.876	W-FA-42CrMo-QT	2,9
1	010	107.345.876.010	ROUND NUT M56	107.345.876	W-FA-42CrMo-QT	2,36
1	009	107.345.876.009	ROUND NUT M52	107.345.876	W-FA-42CrMo-QT	1,86
1	008	107.345.876.008	ROUND NUT M48	107.345.876	W-FA-42CrMo-QT	1,42
1	007	107.345.876.007	ROUND NUT M45	107.345.876	W-FA-42CrMo-QT	1,2
1	006	107.345.876.006	ROUND NUT M42	107.345.876	W-FA-42CrMo-QT	0,96
1	005	107.345.876.005	ROUND NUT M39	107.345.876	W-FA-42CrMo-QT	0,79
1	004	107.345.876.004	ROUND NUT M36	107.345.876	W-FA-42CrMo-QT	0,63
1	003	107.345.876.003	ROUND NUT M33	107.345.876	W-FA-42CrMo-QT	0,49
1	002	107.345.876.002	ROUND NUT M30	107.345.876	W-FA-42CrMo-QT	0,37
1	001	107.345.876.001	ROUND NUT M27	107.345.876	W-FA-42CrMo-QT	0,25

Free space for Nr.

Q-Code XQXXX

Standard ISO; JIS

Main Drw.

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
	A EAAD700017	13.01.2011	B EAAD084319	06.02.2013	C EAAD087822	12.07.2017		

WIN GD Winterthur Gas & Diesel

Product W-2S

ROUND NUT

ROUND NUT

Units	mm kg	NX	Basic Material	Net Weight

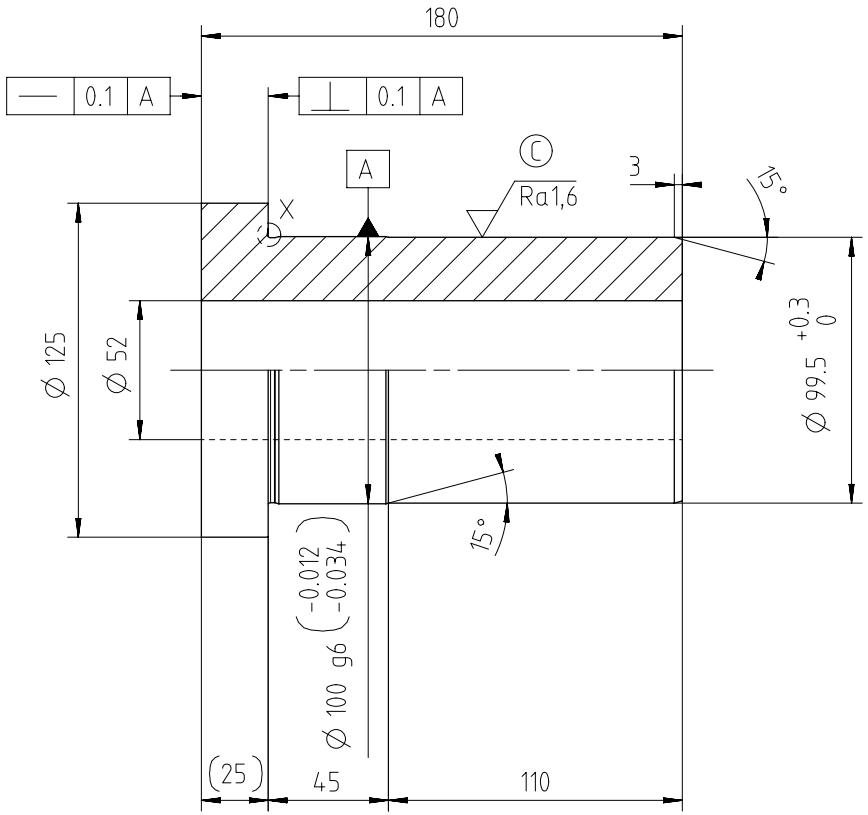
SURFACE PROTECTION SEE GROUP 0344	Made	19.08.2004	pne001 P.Neracher	Scale 1:1	Size A1	Page 1/1
TOLERANCING PRINCIPLE ISO8015	Chkd			Design Group 3306	Drawing ID 107.345.876	Rev. C
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	20.08.2004	PNE001 Neracher			

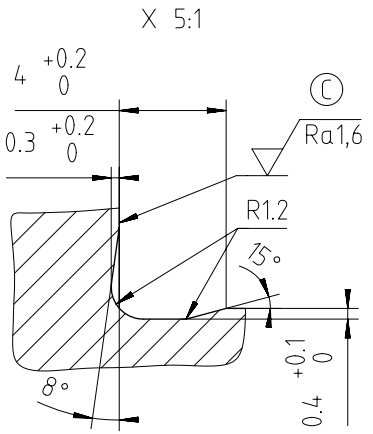
Material ID

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C Ra6,3 (√)

Free space for lic.								Q-Code XXXXX		Main Drw.	
								Standard ISO; JIS			
Modif.	A	7-79.341	16.03.2010	B	EAAD082648	12.07.2011	C	EAAD091567	20.11.2019		
		Number	Drawn date		Number	Drawn date		Number	Drawn date	Number	Drawn date

WIN GD Winterthur Gas & Diesel

Product W-2S

SLEEVE

Huelse

Units mm kg	NX		Basic Material W-FA-34CrMo-QT			Net Weight 8,3
SURFACE PROTECTION SEE GROUP 0344	Made	27.06.2008 M.PRSTEC	Scale 1:2	Size A3	Page 1/1	Material ID 107.401.785.001
TOLERANCING PRINCIPLE ISO8015	Chkd		Design Group 9710	Drawing ID 107.401.785		Rev. C
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	03.07.2008 MPR002 Prstec				

Approved

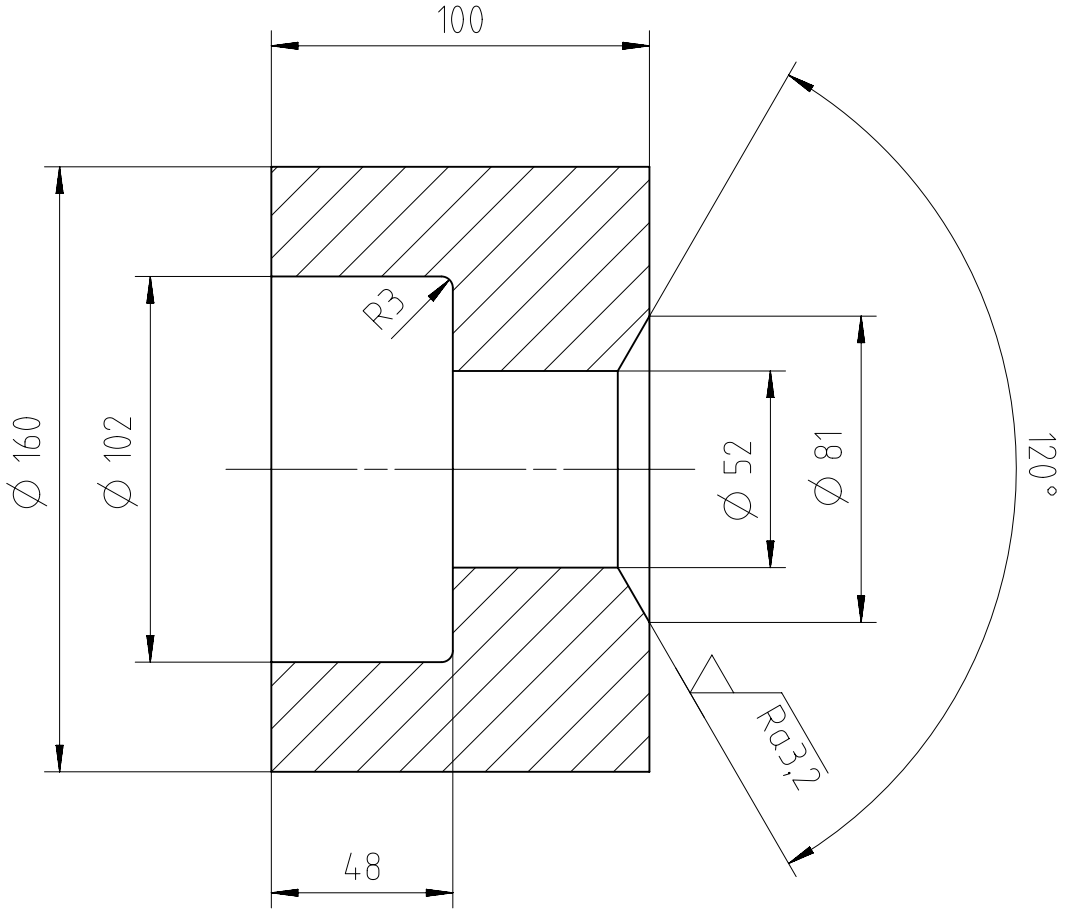
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SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Ra6,3

Kanten gebrochen
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

WIN GD
Winterthur Gas & Diesel

Product: W-2S

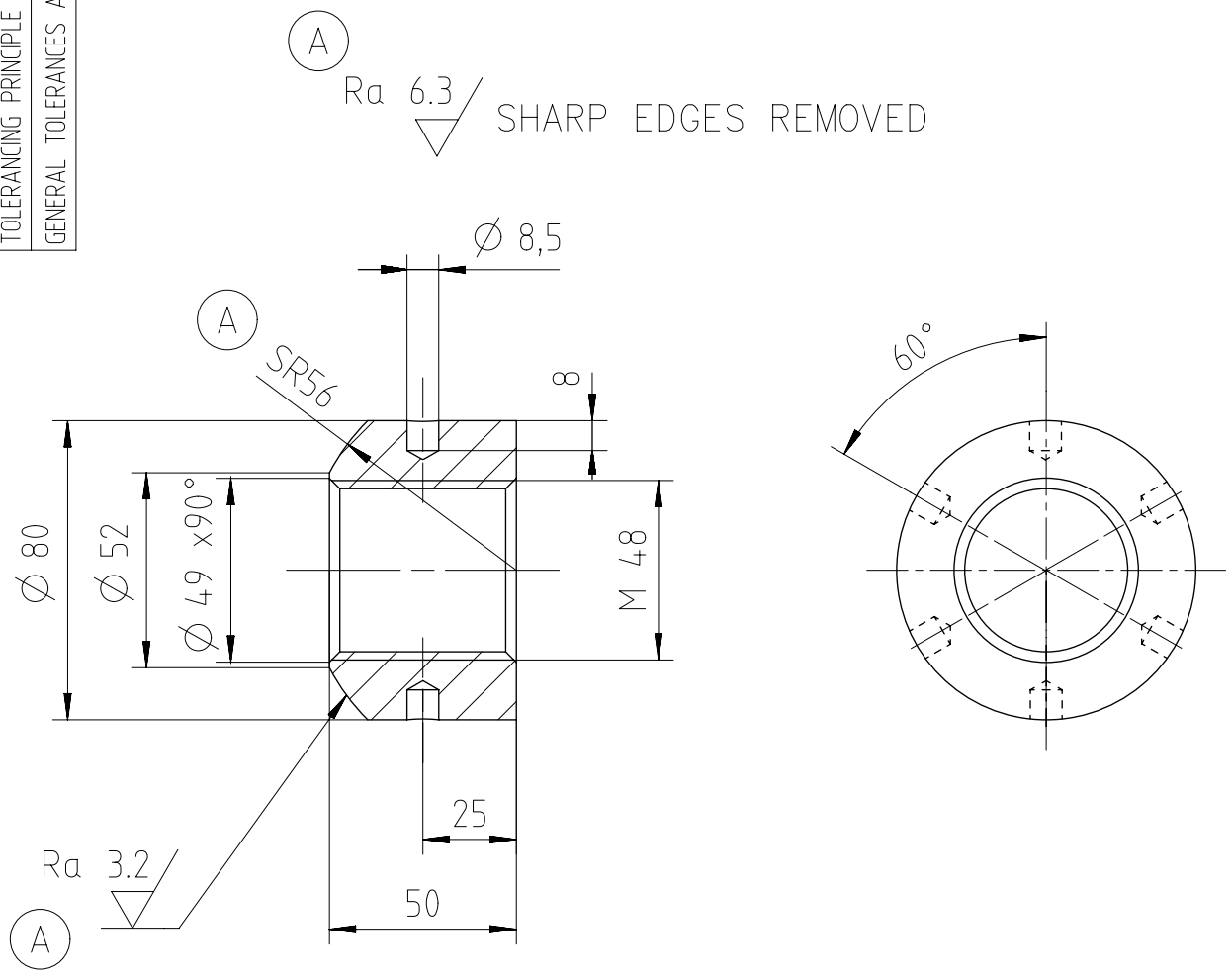
BUSH

Buechse

Units	mm kg	NX	Basic Material	W-FA-34CrMo-QT	Net Weight	10,1
Made	23.02.2018 Yogesh Kulkarni		Scale	1:2	Size A4 / Page 1/1	Material ID PAAD286932
Chkd	07.03.2018 wwa008 Wang		Design Group	9710	Drawing ID DAAD097455	Rev. –
Appd	19.03.2018 mhu019 Hug					

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



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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	EAAD088473	10.10.2017						

WIN G&D Winterthur Gas & Diesel

Product W-2S

SPHERICAL ROUND NUT

Kugelige Rundmutter

Units	mm kg	NX	Basic Material	W-FA-34CrMo-QT	Net Weight	1,2
Made	13.11.1995 R. Nideroest		Scale	1:2	Size A4	Page 1/1
Chkd			Design Group	9710	Material ID	107.246.051.001
Appd	20.11.1995 MLU011 Lüthi				Drawing ID	107.246.051 Rev. A

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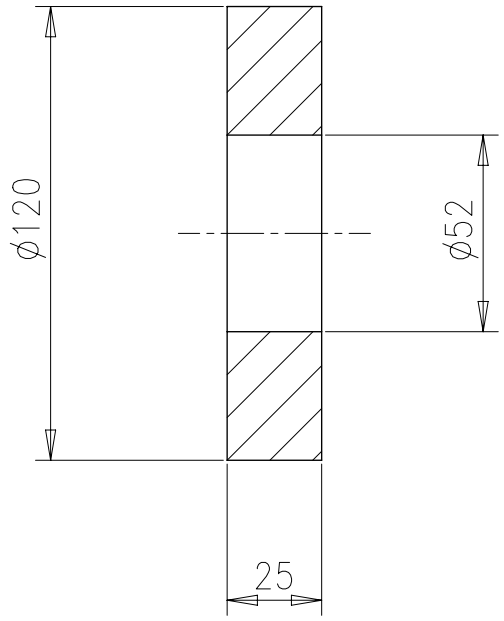
SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

B

Ra6,3 SHARP EDGES REMOVED



Approved

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	7-29.891	29.09.2004	B	EAAD088473	10.10.2017			

WIN G&D Winterthur Gas & Diesel

Product W-2S

SEATING WASHER

Auflagescheibe

Units	mm kg	NX	Basic Material	W-FA-34CrMo-QT	Net Weight	1,8
Made	08.06.2004 S. NATALI		Scale	1:2	Size A4	Page 1/1
Chkd			Design Group	9710	Material ID	107.343.352.001
Appd	26.07.2004 SNA001				Drawing ID	107.343.352
					Rev.	B

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DID - DIMENSIONAL DRAWING - Confidential

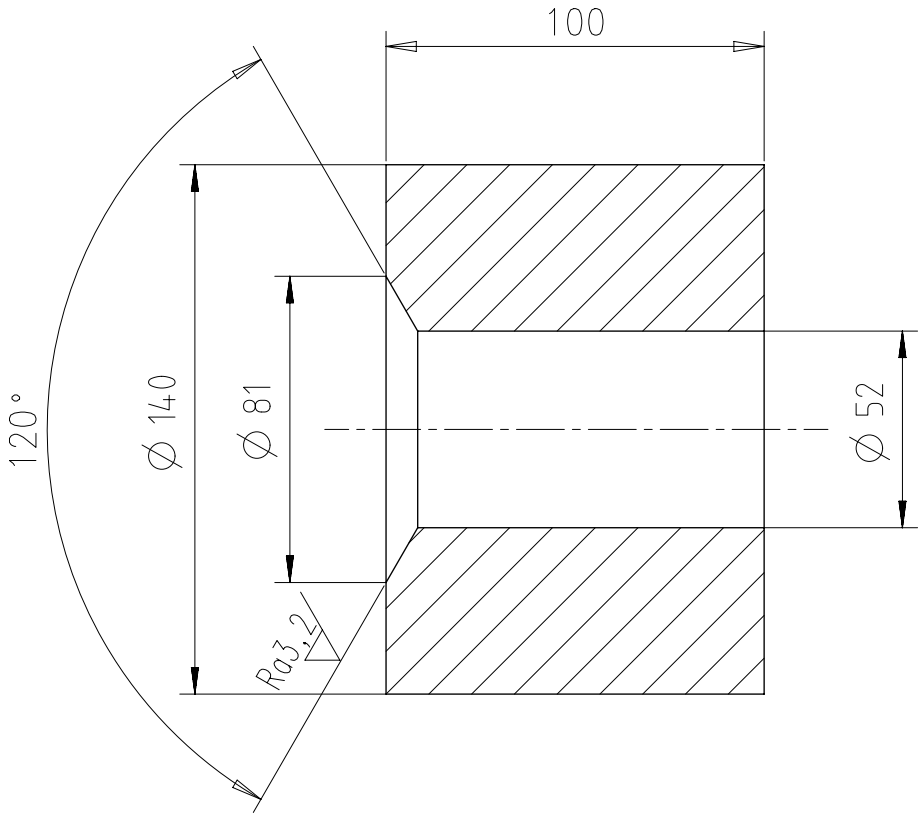
SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Ra6,3

SHARP EDGES REMOVED



Approved

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	EAAD088473	10.10.2017						

WIN GD Winterthur Gas & Diesel

Product W-2S

BUSH

Buechse

Units	mm kg	NX	Basic Material	W-FA-34CrMo-QT	Net Weight	7,8

Made	30.06.2008 M.PRSTEC	Scale	1:2	Size	A4	Page	1/1	Material ID	107.401.838.001
Chkd		Design Group	9710	Drawing ID	107.401.838			Rev.	A
Appd	03.07.2008 MPR002 Prstec								

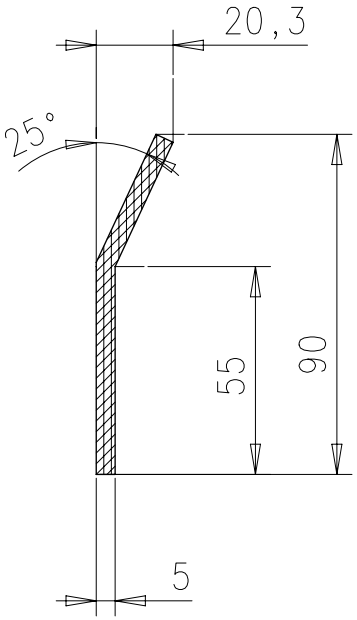
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SURFACE PROTECTION SEE GROUP 0344

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

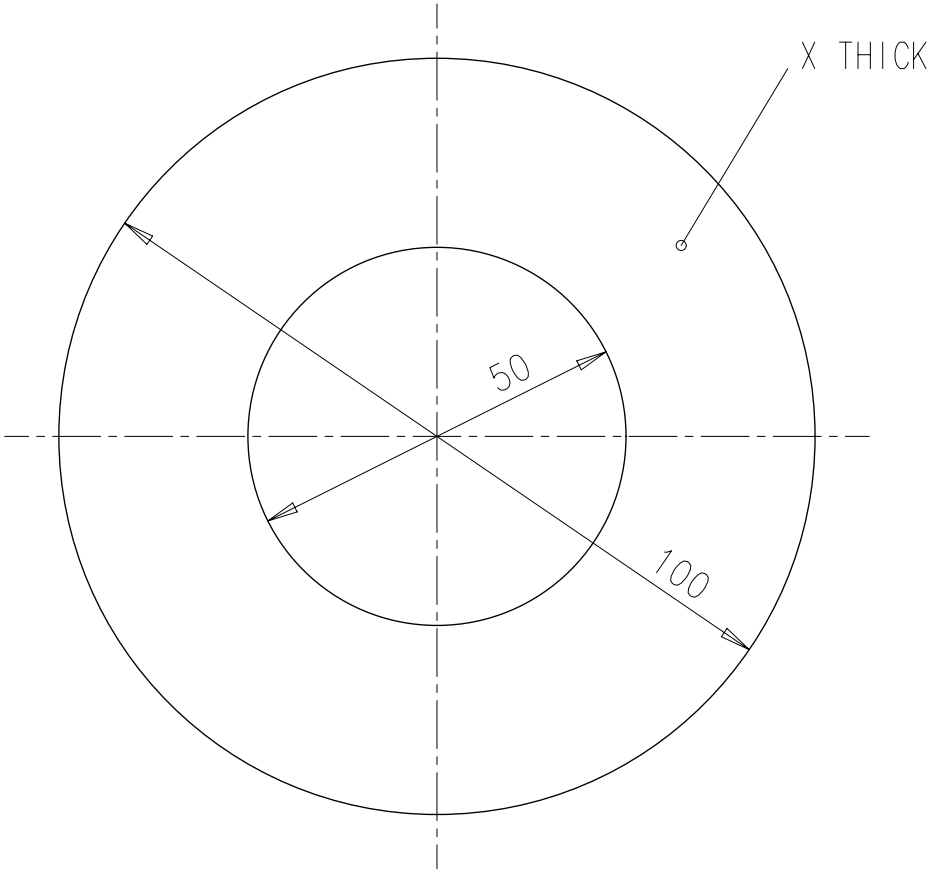
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PD - PRODUCTION DRAWING - Confidential

SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK



(A)

Remarks:

"X" determined during assembly (depends on chock thickness)

* Material according to shipyard experience
  PROPOSAL: Oil resistant NBR rubber with a hardness of 60-70 shore A

Approved

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	EAAD088473	10.10.2017						

WIN GD Winterthur Gas & Diesel

Product W-2S

JOINT DISC

Dichtscheibe

Units	mm kg	NX	Basic Material *	Net Weight 0,001
Made	30.06.2008 M. PRSTEC		Scale 1:1	Size A4 / Page 1/1 / Material ID 107.401.836.001
Chkd			Design Group 9710	
Appd	03.07.2008 MPR002 Prstec			Drawing ID 107.401.836 / Rev. A

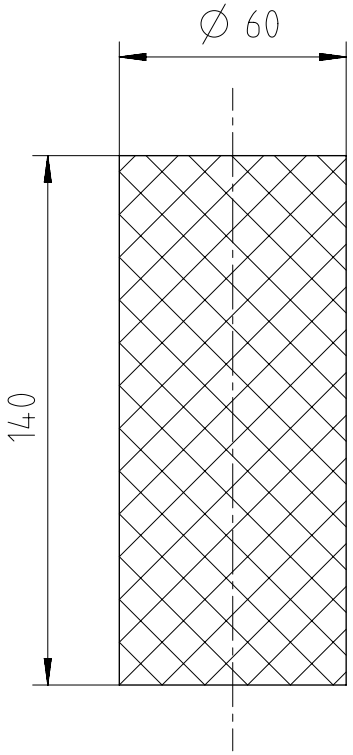
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SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK



(A) Remarks:

Just applied during pouring of the chock

* Material according to shipyard experience

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	EAAD088473	10.10.2017						

WIN GD Winterthur Gas & Diesel

Product W-2S

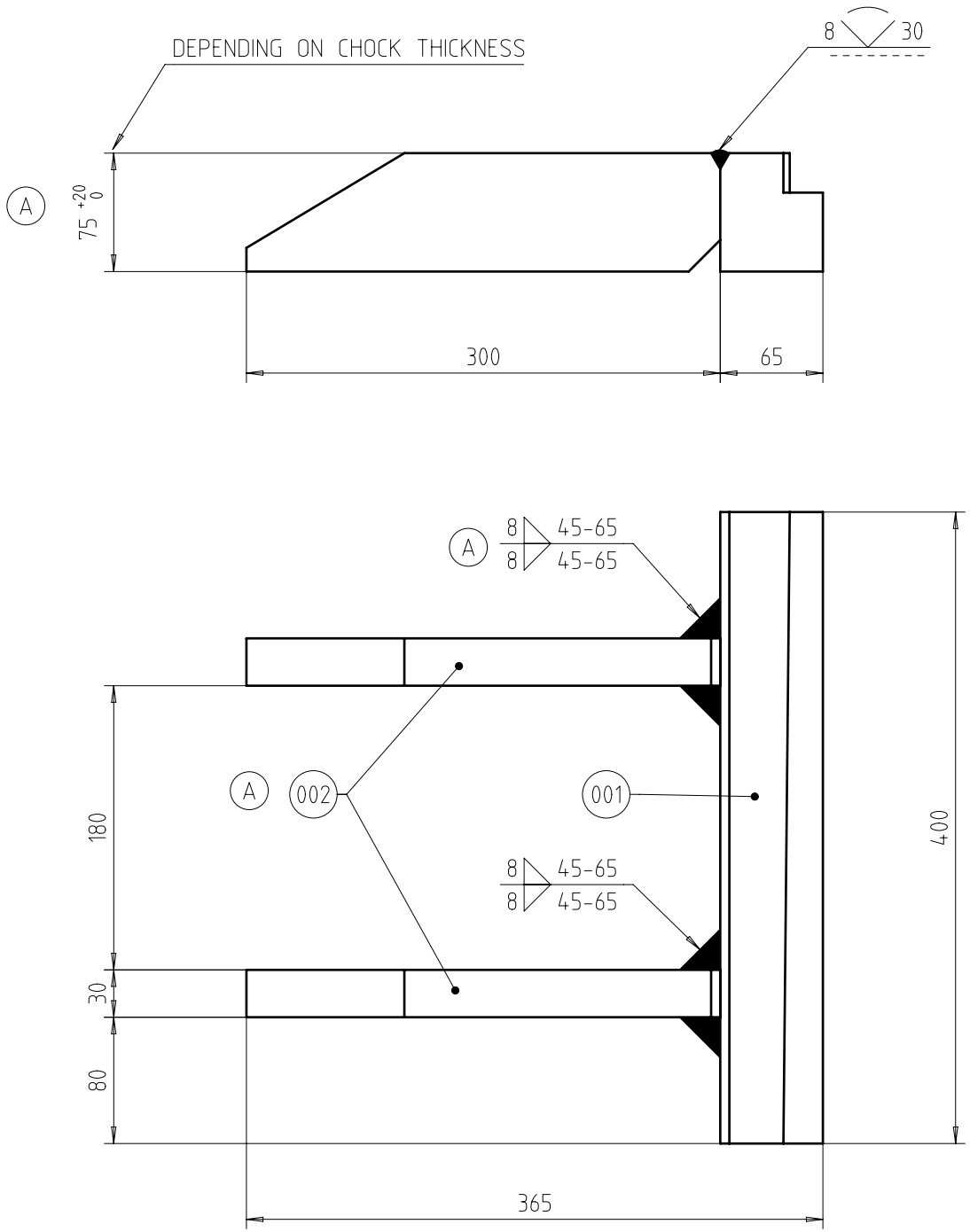
PLUG

Stopfen

Units mm kg	NX	Basic Material *	Net Weight 0,2
Made 30.06.2008 M. PRSTEC		Scale 1:2	Size A4 / Page 1/1 / Material ID 107.401.837.001
Chkd		Design Group 9710	
Appd 03.07.2008 MPR002 Prstec			Drawing ID 107.401.837 / Rev. A

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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	107.402.024.001	FLAT BAR 30xhx300	107.402.024	W-FU-235-JR	4,6
1	001	107.402.023.001	FLAT BAR 65xhx400	107.402.023	S235JR;STKM 12A	14,8

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	23.10.2018						

WIN GD Winterthur Gas & Diesel

Product: W-2S

ENGINE SIDE STOPPER
WELDED TYPE, FUEL SIDE

Motor-Seitenstopper
Geschweisst, Brennstoffseite

Units: mm kg | NX | Basic Material | Net Weight 24

Made	08.12.2015 Kashyap Patel	Scale 1:3	Size A3	Page 1/1	Material ID	PAAD214749
Chkd	23.12.2015 mhu019 Hug	Design Group 9710	Drawing ID	DAAD073571	Rev.	A
Appd	23.12.2015 bha009 Haag					

SURFACE PROTECTION SEE GROUP 0344

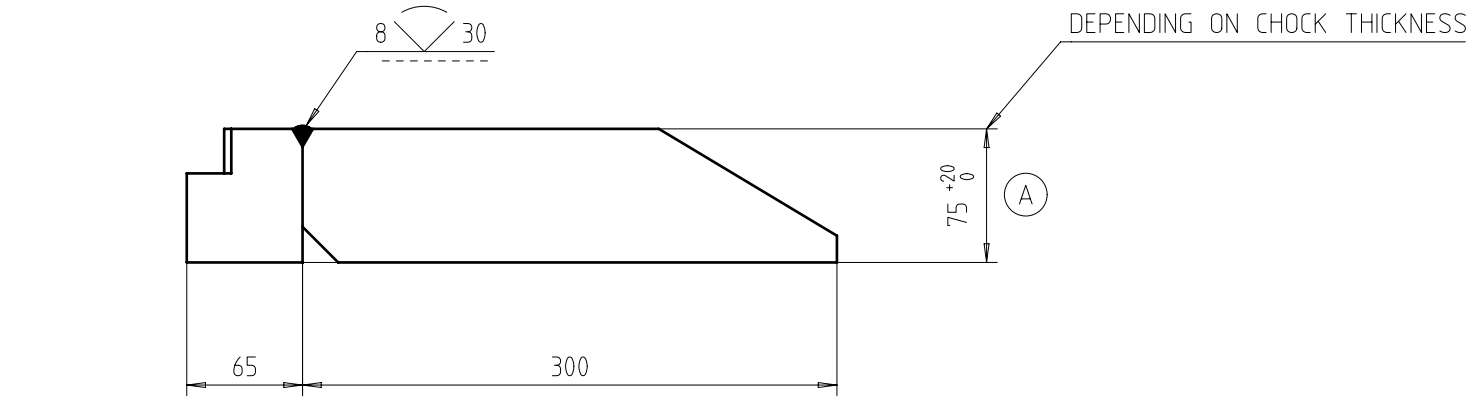
TOLERANCING PRINCIPLE ISO8015

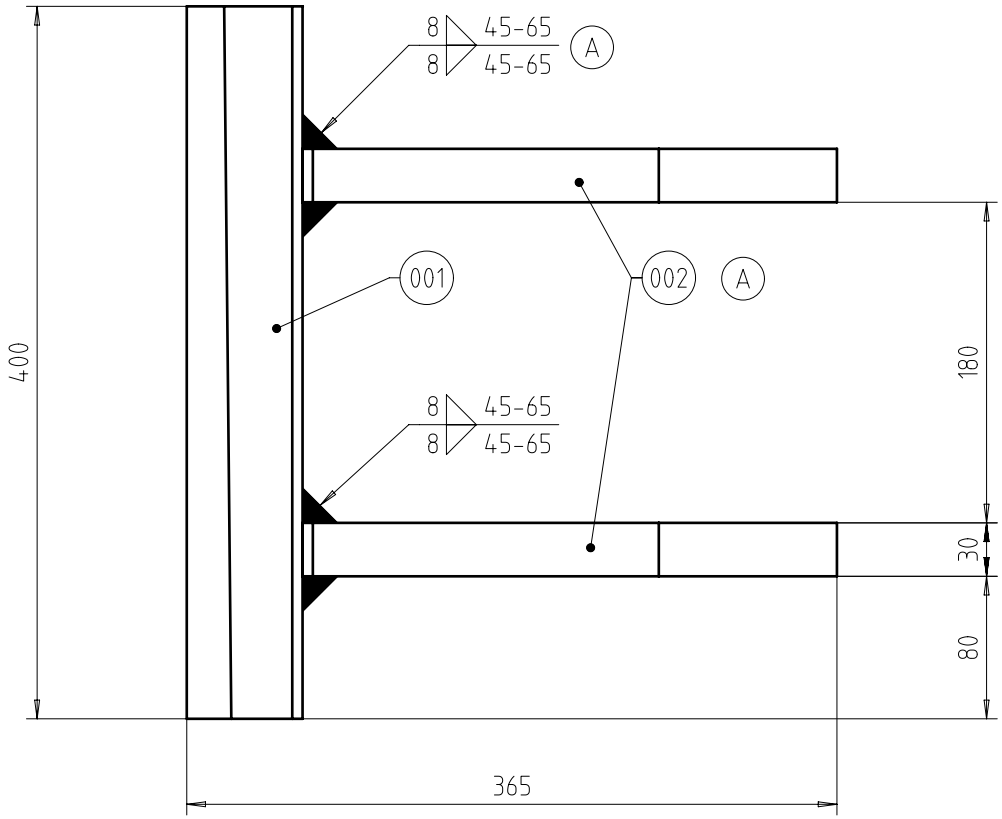
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

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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	107.402.024.001	FLAT BAR 30xhx300	107.402.024	W-FU-235-JR	4,6
1	001	107.402.023.002	FLAT BAR 65xhx400	107.402.023	S235JR;STKM 12A	14,8

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	23.10.2018						

WIN GD Winterthur Gas & Diesel

Product: W-2S

ENGINE SIDE STOPPER
WELDED TYPE, EXHAUST SIDE
Motor-Seitenstopper
Geschweisst, Abgasseite

Units: mm kg | NX | Basic Material | Net Weight 24

SURFACE PROTECTION SEE GROUP 0344	Made	08.12.2015 Kashyap Patel	Scale 1:3	Size A3	Page 1/1	Material ID PAAD214952
TOLERANCING PRINCIPLE ISO8015	Chkd	23.12.2015 mhu019 Hug	Design Group 9710	Drawing ID DAAD073629		Rev. A
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	23.12.2015 bha009 Haag				

Approved

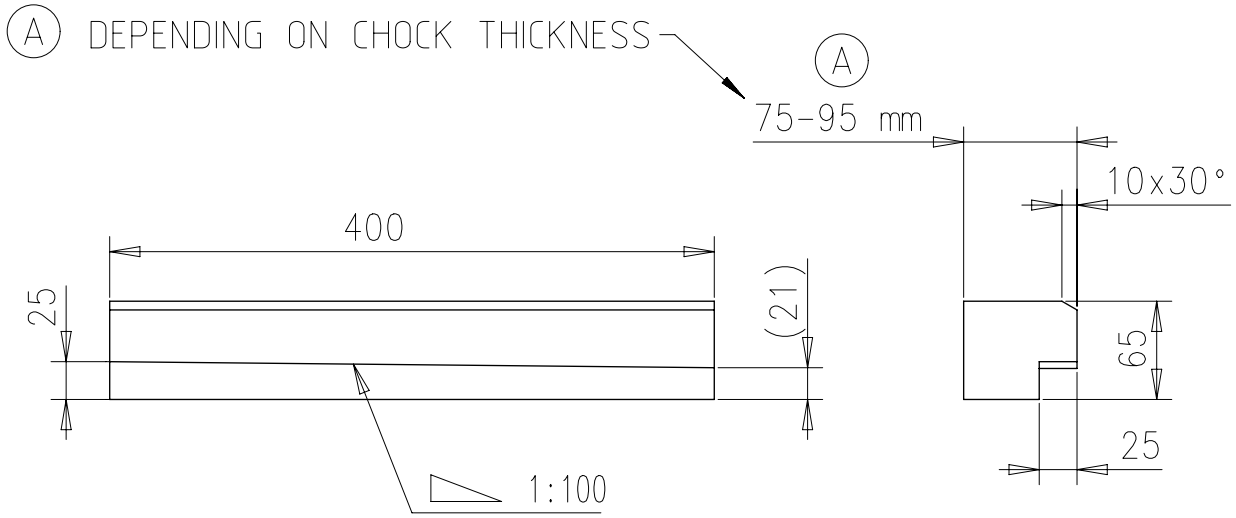
DID - DIMENSIONAL DRAWING - Confidential

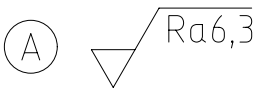
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SURFACE PROTECTION SEE GROUP 0344

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
A	EAAD091567	21.11.2019						

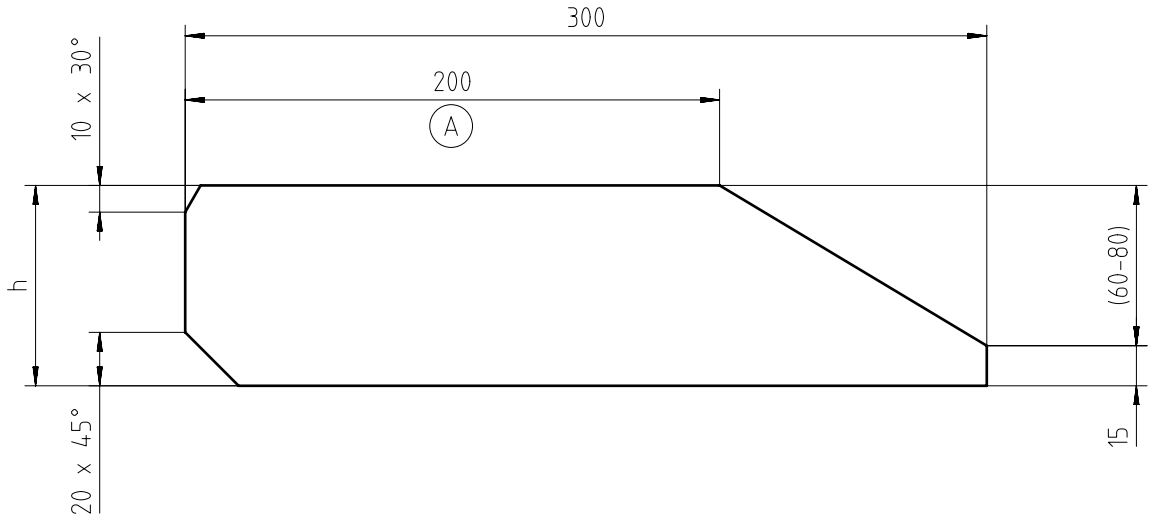
WIN GD Winterthur Gas & Diesel

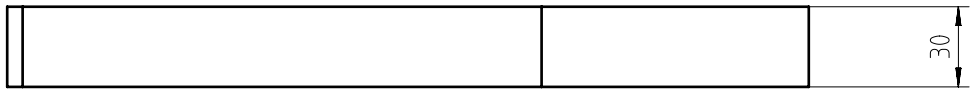
Product: W-2S

FLAT BAR
TO ENGINE SIDE STOPPER
Flachstahl

Units	mm kg	NX	Basic Material	W-FU-235-JR	Net Weight	14,8
Made	02.07.2008 M.PRSTEC		Scale	1:5	Size A4 / Page 1/1	Material ID 107.402.023.001
Chkd			Design Group	9710	Drawing ID 107.402.023	Rev. A
Appd	03.07.2008 MPR002 Prstec					

DID - DIMENSIONAL DRAWING - Confidential





Ra50

SHARP EDGES REMOVED

h = (75 - 95 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	22.10.2018								
		Number	Drawn date	Number		Drawn date	Number	Drawn date	Number		Drawn date

WIN GD Winterthur Gas & Diesel

Product W-2S

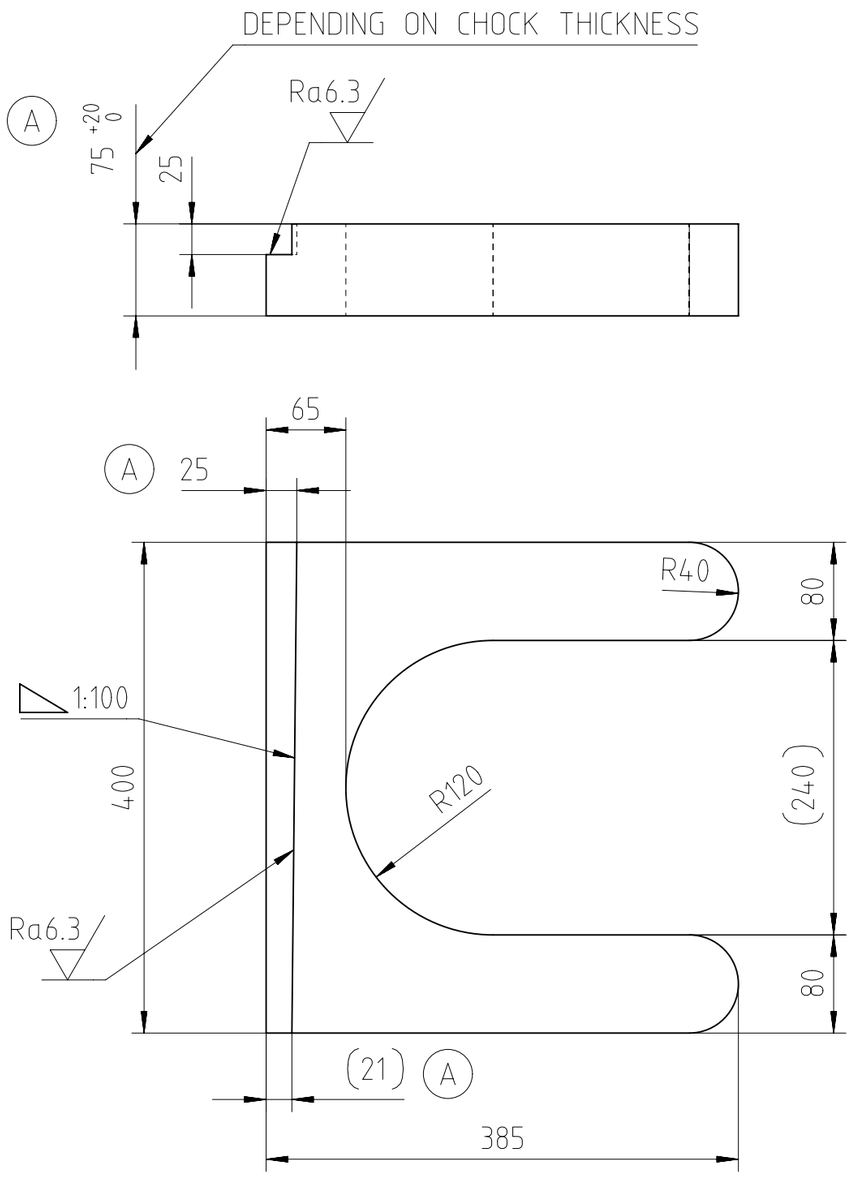
FLAT BAR
TO ENGINE SIDE STOPPER
Flachstahl

Units mm kg	NX		Basic Material W-FU-235-JR		Net Weight 4,6
SURFACE PROTECTION SEE GROUP 0344	Made	02.07.2008 M.PRSTEC	Scale 1:2	Size A3 / Page 1/1	Material ID 107.402.024.001
TOLERANCING PRINCIPLE ISO8015	Chkd		Design Group 9710	Drawing ID 107.402.024	Rev. A
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	03.07.2008 MPR002 Prstec			

Approved

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Ra50 (Ra6.3)

Free space for lic.									Q-Code XXXXX		Main Drw.
									Standard ISO; JIS		
Modif.	A	EAAD088473	25.09.2017								
		Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date		

WIN GD Winterthur Gas & Diesel

Product W-2S

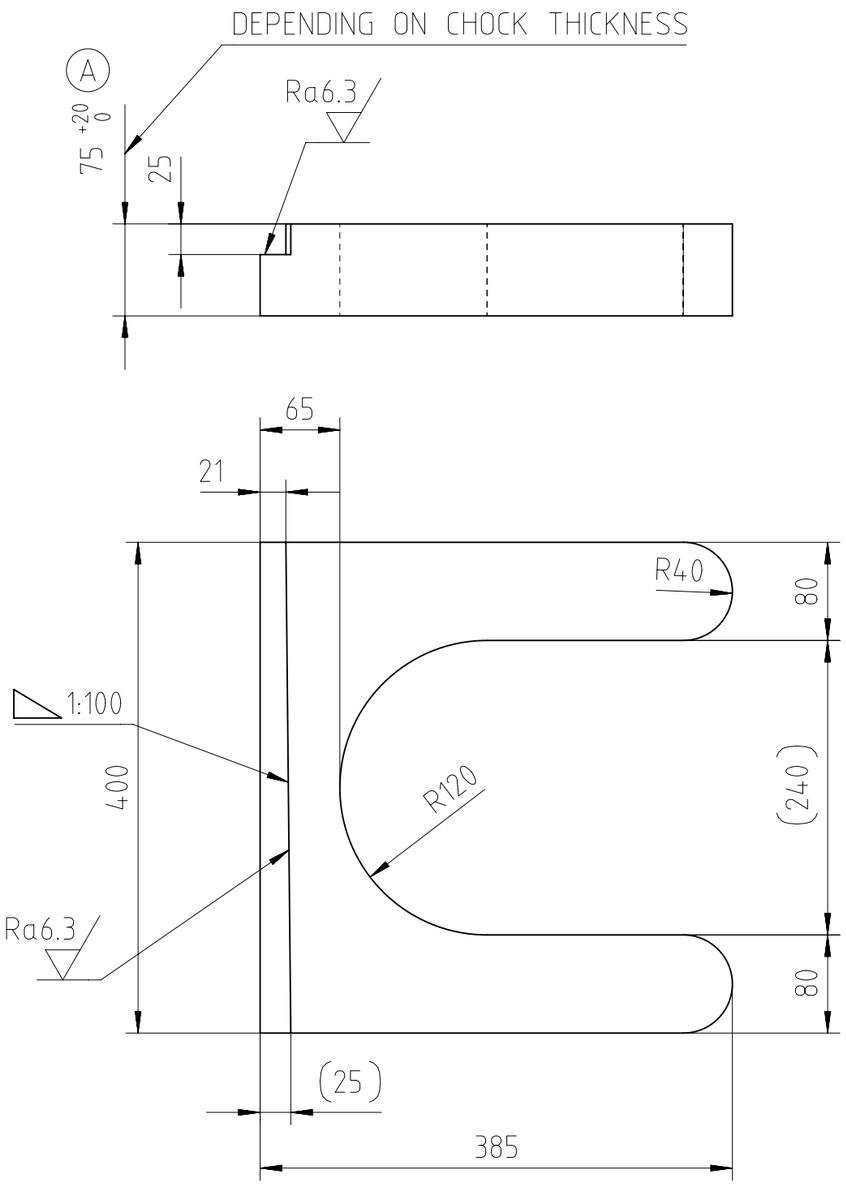
ENGINE SIDE STOPPER
FLAME CUT, FUEL SIDE
Motor-Seitenstopper
Ausgebrannt, Brennstoffseite

Units mm kg	NX		Basic Material W-FU-235-JR			Net Weight 46,4
SURFACE PROTECTION SEE GROUP 0344	Made	08.12.2015 Kashyap Patel	Scale 1:5	Size A3	Page 1/1	Material ID PAAD214691
TOLERANCING PRINCIPLE ISO8015	Chkd	23.12.2015 mhu019 Hug	Design Group 9710	Drawing ID DAAD073549		Rev. A
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	23.12.2015 bha009 Haag				

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Ra50 (Ra6.3)

Free space for lic.									Q-Code XXXXX		Main Drw.
									Standard ISO; JIS		
Modif.	A	EAAD088933	29.01.2018								
		Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date		

WIN GD
Winterthur Gas & Diesel

Product W-2S

ENGINE SIDE STOPPER
FLAME CUT, EXHAUST SIDE
Motor-Seitenstopper
Ausgebrannt, Abgasseite

Units mm kg	NX		Basic Material W-FU-235-JR			Net Weight 46,4
SURFACE PROTECTION SEE GROUP 0344	Made	8.12.2015 Kashyap Patel	Scale 1:5	Size A3	Page 1/1	Material ID PAAD214692
TOLERANCING PRINCIPLE ISO8015	Chkd	23.12.2015 mhu019 Hug	Design Group 9710	Drawing ID DAAD073550		Rev. A
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	23.12.2015 bha009 Haag				

Approved

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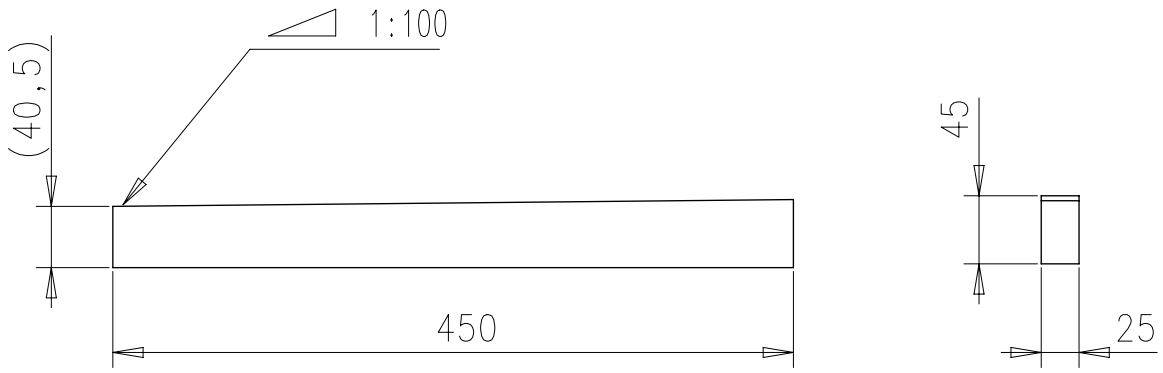
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SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

(A) Ra6.3 SHARP EDGES REMOVED



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	EAAD088473	17.10.2017						

WIN GD Winterthur Gas & Diesel

Product W-2S

WEDGE

Schraeger Keil

Units	mm kg	NX	Basic Material	W-FU-235-JR	Net Weight	3,8
Made	16.01.2002 S.STYLIANOU		Scale	1:5	Size A4 / Page 1/1	Material ID 107.325.275.001
Chkd			Design Group	9710	Drawing ID 107.325.275	Rev. A
Appd	31.01.2002 SNA001					

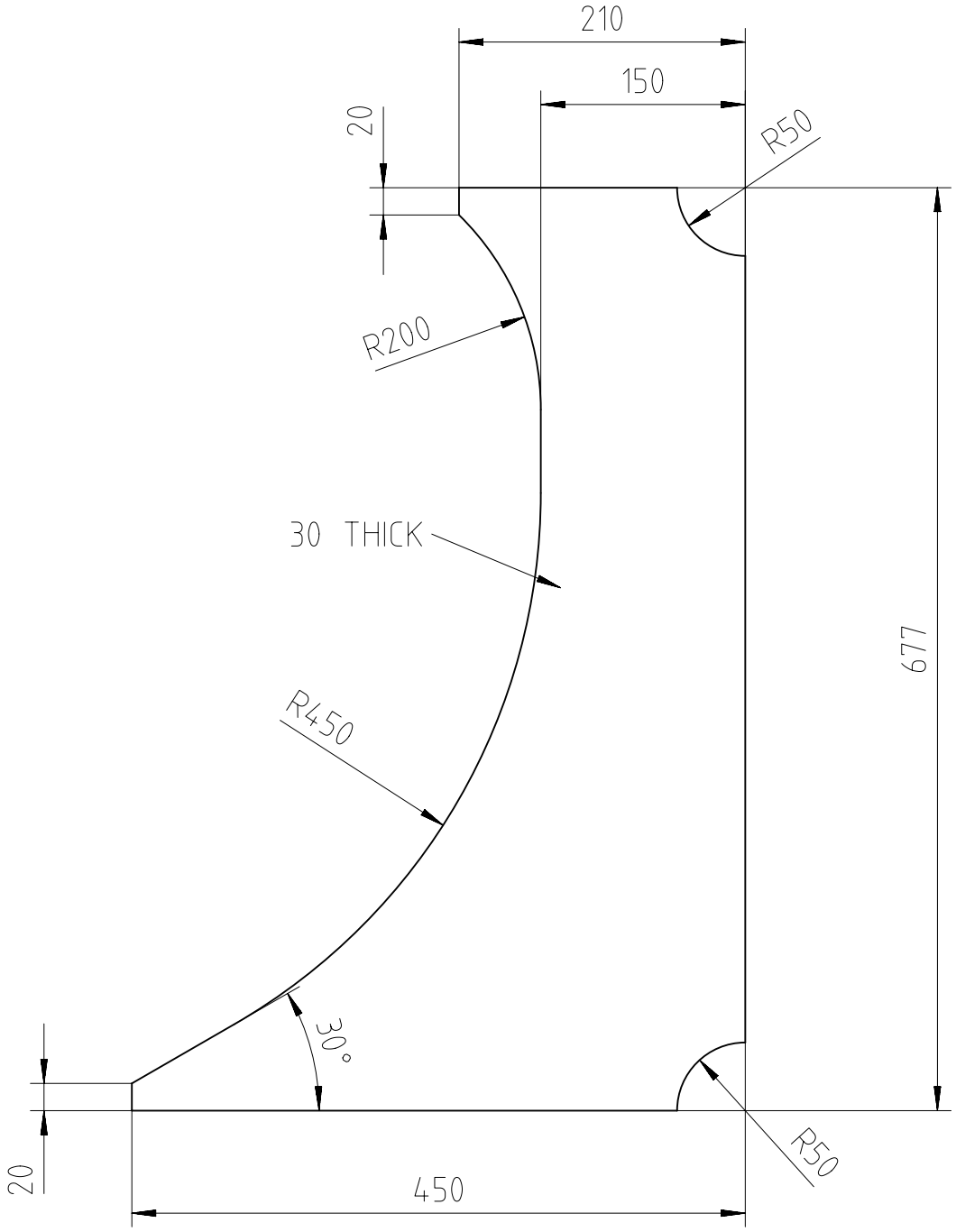
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SURFACE PROTECTION SEE GROUP 0344

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 G&D Winterthur Gas & Diesel

Product W-2S

RIB

Rippe

Units	mm kg	NX	Basic Material	W-FU-235-J0	Net Weight	33,9
Made	19.12.2015 Kashyap Patel		Scale	1:5	Size A4 / Page 1/1 / Material ID	PAAD216050
Chkd	23.12.2015 mhu019 Hug		Design Group	9710	Drawing ID	DAAD074125
Appd	23.12.2015 bha009 Haag				Rev.	–

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MIDS - ENGINE SEATING and FOUNDATION (DG9710)

WinGD X52/DF

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2017-02-13	DRAWING SET	First web upload
2017-08-07	DAAD073944	Foundation drg - new revision
2017-08-07	DAAD061793	Foundation drg - new revision
2017-10-17	107.401.836 107.401.837 DAAD073549 107.246.051.001 107.325.275 107.343.352 107.401.786 107.401.787 107.401.838	Assembly parts drgs – new revisions
2017-10-17	DAAD092634	Foundation drg – new for 7cyl. engine version
2018-03-26	DAAD073944 DAAD061793	Foundation drg – new revision
2018-03-26	107.401.787	Bush drg - replaced by DAAD097455
2018-03-26	DAAD073550	Sidestopper, flamecut, ES drg – new revision
2018-10-18	DAAD092634	Foundation drg – new revision
2019-04-10	DAAD073944 DAAD073357 DAAD073629 107.402.024	Foundation and side stopper drgs – new revision

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2020-09-09	107.398.394 107.345.876 107.401.785 107.367.119 107.402.023	System drgs – new revision
2024-02-15	PAAD215698-E	New revision