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.

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	E	C
–	sna102	mhu019	14.03.2023	CNAA003279	new Design	-	-

Approved | Activity Code

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

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		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	-		-	-

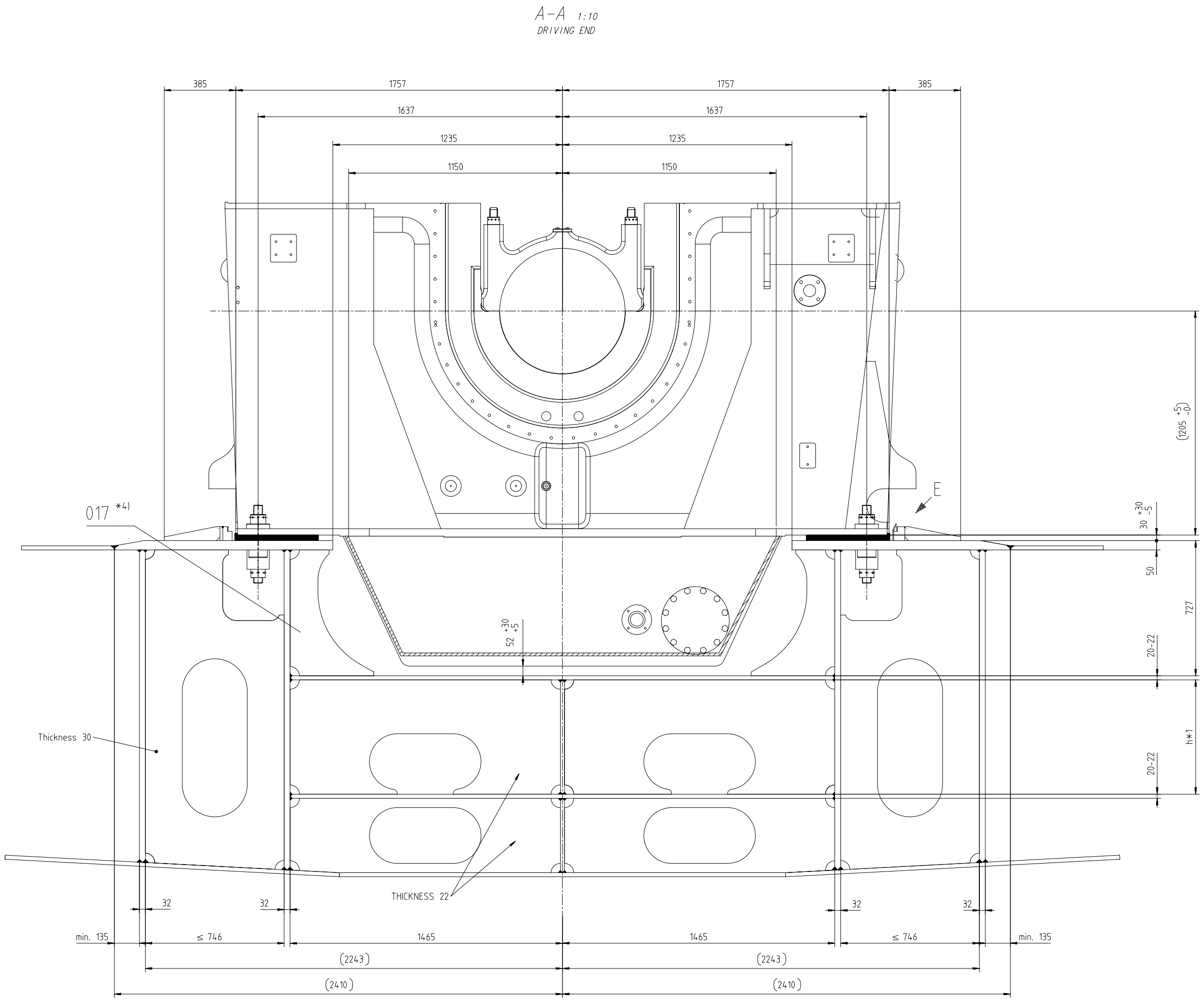
Approved

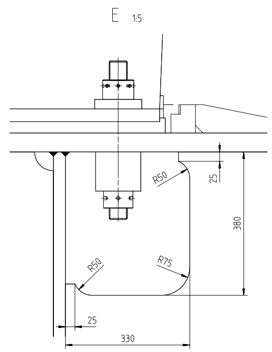
WIN GD
Winterthur Gas & Diesel

ENGINE SEATING/FOUNDATION

Bill **O**f **M**aterial

Dimension							
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





REMARKS:

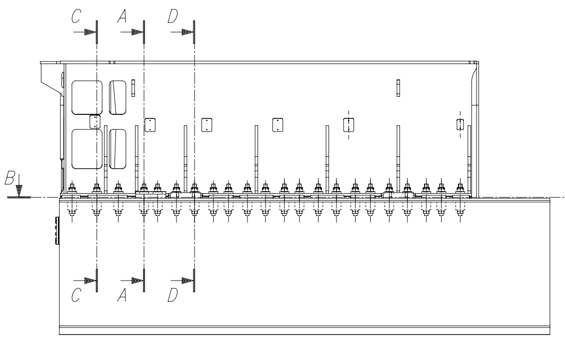
*1) HEIGHT TO BE DETERMINED BY SHIPYARD. FOR DIMENSIONS AND LAYOUT OF LUB. OIL DRAIN TANK AND DRAINS REFER TO DESIGN GROUP 9722

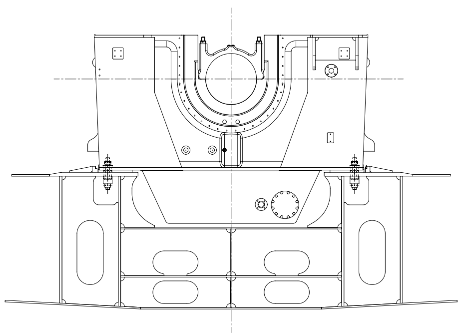
*2) CHOCK THICKNESS 30^{+30}_{-5}mm

- FINAL CHOCK THICKNESS TO BE DETERMINED BY SHIPYARD

*3) FINAL DISTANCES ACCORDING TO APPROPRIATE RULES

*4) QUANTITY DEPENDING ONSHIPYARD DESIGN





Prod.	5X52 5X52DF	5X52DF-1.1 5X52DF-2.1	5X52DF-A-1.0 5X52DF-M-1.0					
Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved / Activity Code	E	C
E	sjo101	mhu019	12.02.2024	CNAA005240	Drawing updated		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
-	20045890	bha009	23.12.2015	EAAD779402	-		-	-

WIN GD
Winterthur Gas & Diesel

ENGINE SEATING/FOUNDATION

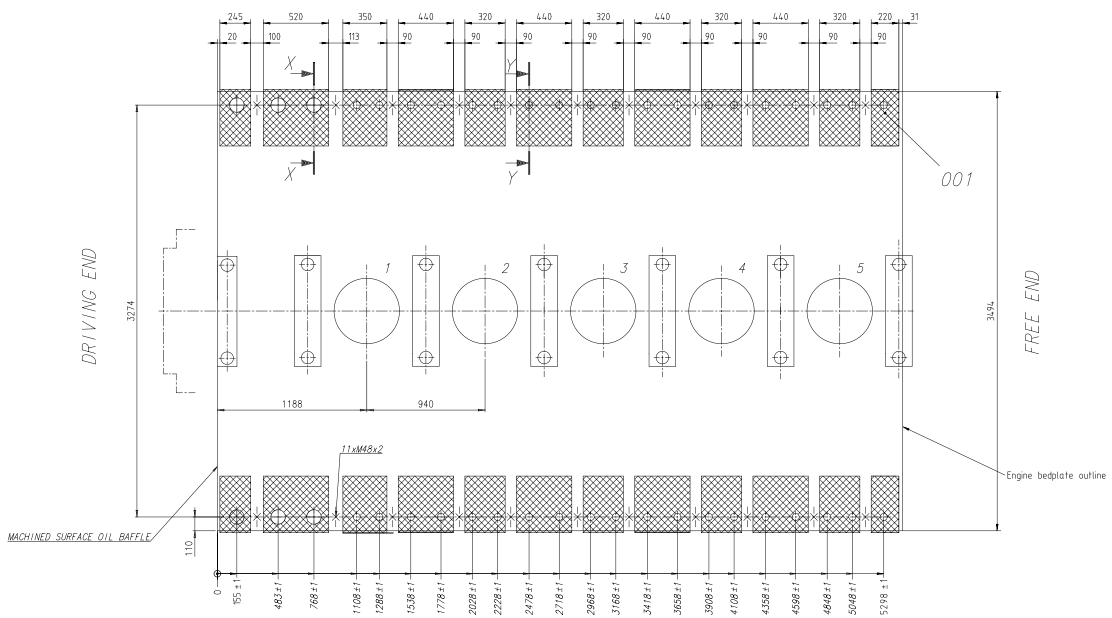
separate BOM available

Scale 1:25	NX	Dimension			
		Units [mm] [kg]	Basic Material		Net Weight 922.3
		Main Design Yes	Design Group 9710	Q-Code X X 0	Standard WDS
		Qty per Engine	A0	Item ID PAAD215698	Drawing Page/s 1/3

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

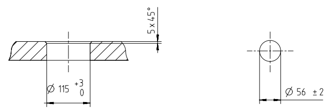
B–B

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.

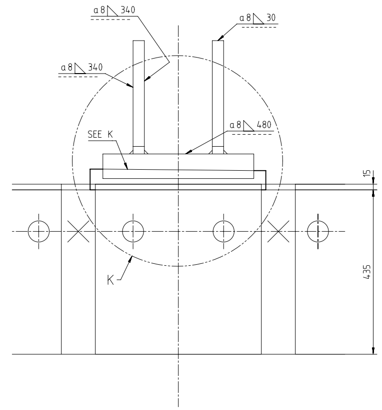
*4) with X marked positions represent jacking screws

TABLE : DIMENSIONS OF EPOXY RESIN CHOCKS *1)

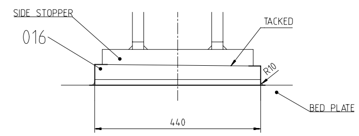
NO. OF CYLS.	MAX. PERM. MEAN SURFACE PRESSURE OF CHOCK *2)	TOTAL CHOCK LENGTH PER SIDE	TOTAL NET CHOCKING AREA	REQUIRED QUANTITY OF EPOXY RESIN MATERIAL *3)	
	N/mm^2	mm	cm^2	dm^3 min.	max.
5	5	4355	36176	90	217

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

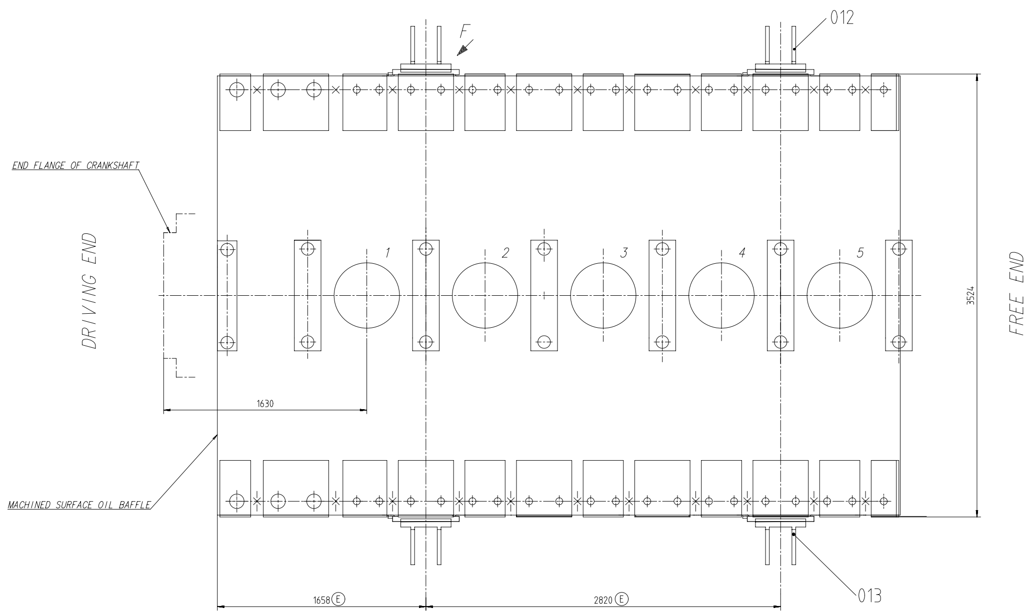
F 1:5



DETAIL K
SCALE 1:5



B–B



✱ SHOWN ON DRAWING

WELD QUALITY LEVEL D (SEE 4-107.345.444)

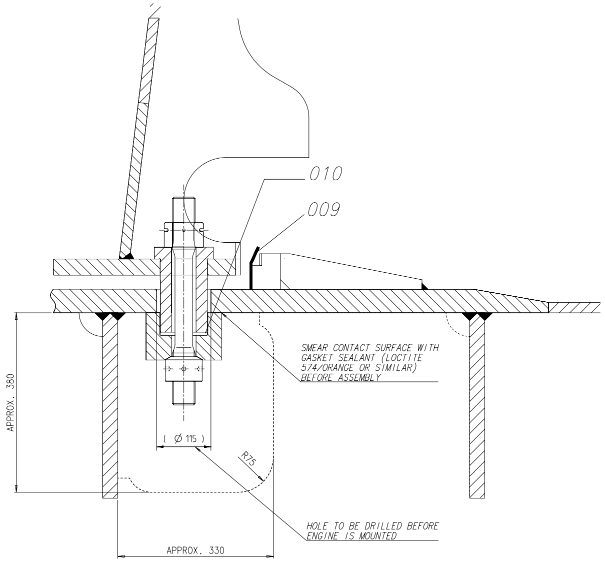
Change	E	sjo101	mhu019	12.02.2024	CNAA005240	Drawing updated		4	3
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved Activity Code	E	C

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

[mm] [kg] 1:25 NX A0 Item ID PAAD215698 Drawing Page/s 2/3

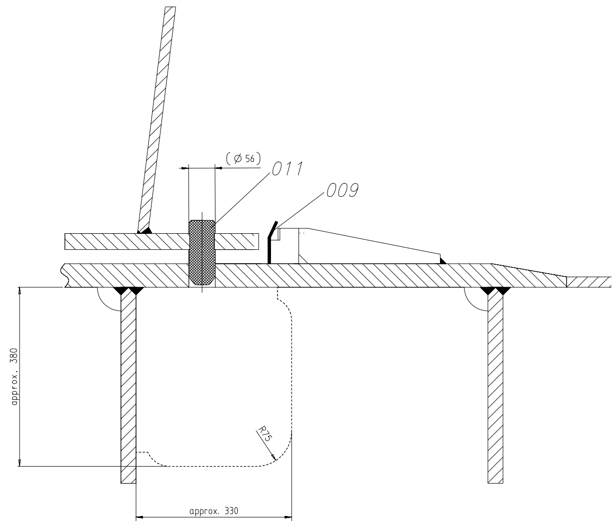
C-C

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOCK



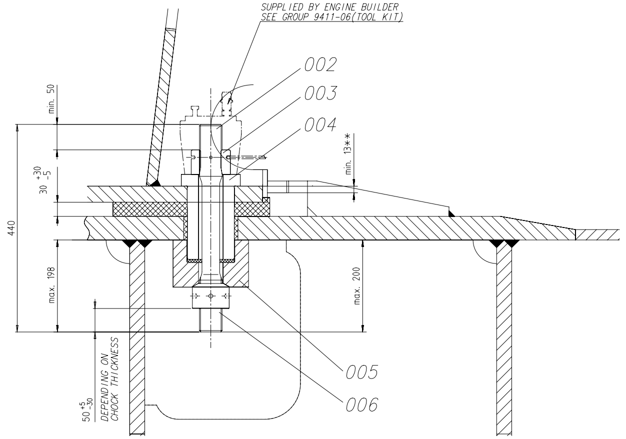
D-D

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOCK



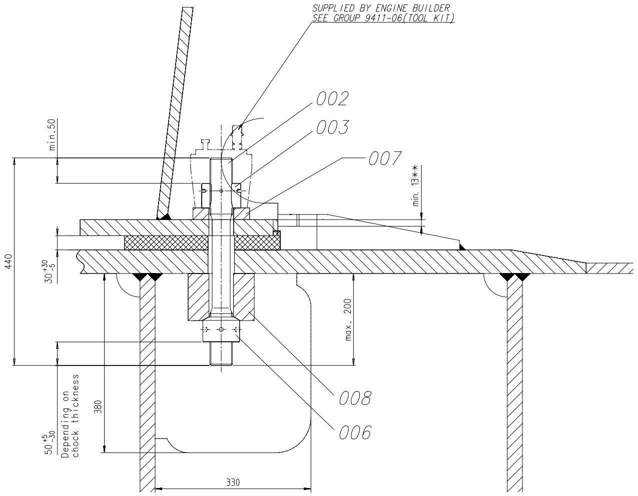
C-C

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

SURFACE PROTECTION SEE GROUP 0344	Change	E	sjo101	mhu019	12.02.2024	CNAA005240	Drawing updated	4	3
		Rev.	Creator 16.12.2014	Approver dki021	Approval Date DH.Kim	Change ID	Change Synopsis Approved	Activity Code E	C
TOLERANCING PRINCIPLE ISO8015						[mm] [kg]	1:25	A0	Item ID PAAD215698
GENERAL TOLERANCES ACCORDING TO ISO2768-mK							NX		Drawing Page/s 3/3

SEQ NO	QTY	Item ID	Item Name / Dimension	Standard-ID	Basic Material	Net Weight
001	1	107.398.394.500	EPOXY RESIN			0.001
002	52	107.401.786.001	ELASTIC BOLT		34CrMo4 SCM 435	4.4
003	52	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
006	52	107.246.051.001	SPHERICAL ROUND NUT M48		34CrMo4	1.2
007	46	107.343.352.001	SEATING WASHER		34CrMo4 SCM 435	1.8
008	46	107.401.838.001	BUSH		34CrMo4 SCM 435	7.8
009	1	107.367.119.001	SEALING PIECE			0.001
010	6	107.401.836.001	JOINT DISC		Rubber750	0.05
011	46	107.401.837.001	PIN		Rubber750	0.2
012	3	PAAD214952	ENGINE SIDE STOPPER			20.3
013	3	PAAD214749	ENGINE SIDE STOPPER			20.3
016	6	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.			
	6 X52 6 X52DF	6 X52DF-1.1 6 X52DF-2.1	6 X52DF-A-1.0 6 X52DF-M-1.0

Change History

Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved / Activity Code	E	C
C	sjo101	mhu019	18.04.2024	CNAA005392	Drawing updated		4	3
B	20045800	mhu019	26.03.2018	EAAD088933	Legacy information. See corresponding ChangeNotice		4	3
A	dki021	rsc001	04.07.2017	EAAD087876	Legacy information. See corresponding ChangeNotice		4	3
-	20045800	bha009	18.01.2016	EAAD086353	Legacy information. See corresponding ChangeNotice		4	3

WIN GD
Winterthur Gas & Diesel

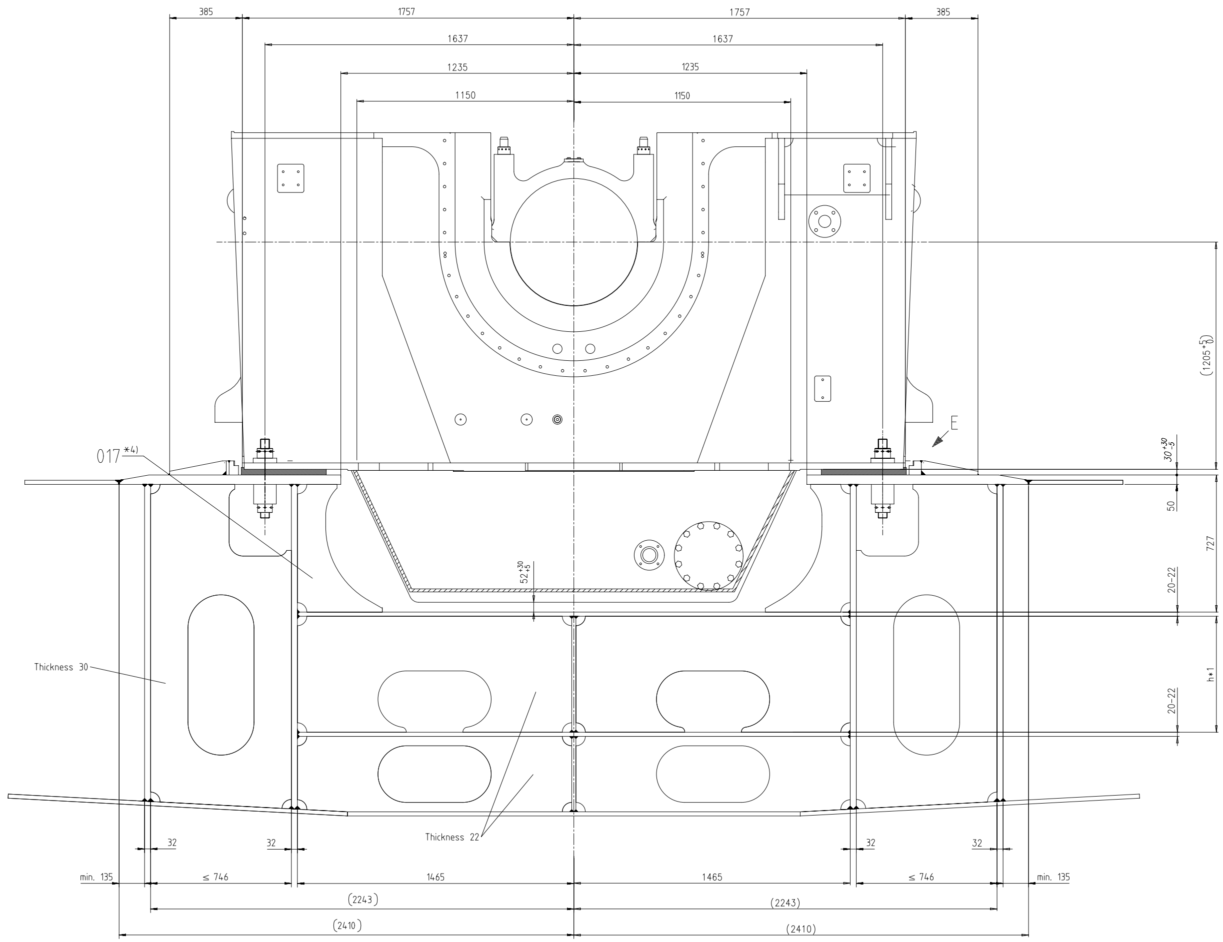
ENGINE SEATING/FOUNDATION

Foundation: STANDARD

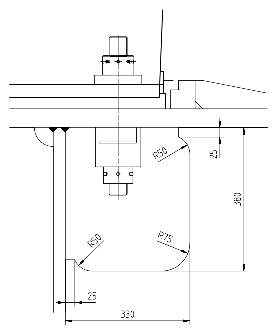
Bill **O**f **M**aterial

Dimension					
Units	[m] [kg]	Basic Material		Net Weight	1105
Main Design	Yes	Design Group 9710	Q-Code X X O	Standard	WDS
Qty per	Engine	A4	Item ID PAAD214975	BOM Page/s	01/01

A–A 1:10
DRIVING END



E 1:5



REMARKS:

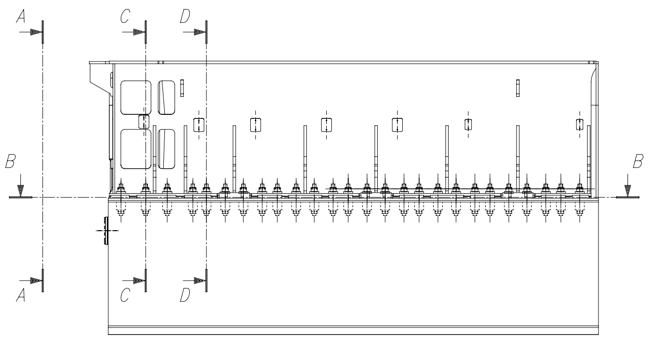
*1) HEIGHT TO BE DETERMINED BY SHIPYARD. FOR DIMENSIONS AND LAYOUT OF LUB. OIL DRAIN TANK AND DRAINS REFER TO DESIGN GROUP 9722

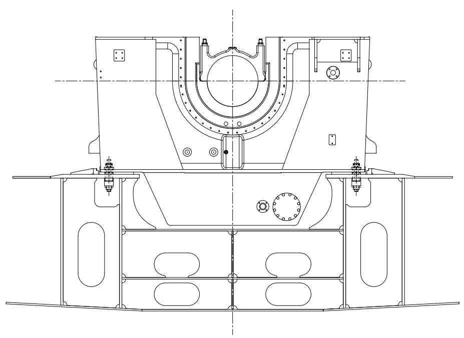
*2) CHOCK THICKNESS 30^{+30}_{-5} MM

- FINAL CHOCK THICKNESS TO BE DETERMINED BY SHIPYARD

*3) FINAL DISTANCES ACCORDING TO APPROPRIATE RULES

*4) QUANTITY DEPENDING ON SHIPYARD DESIGN





Prod.	6X52 6X52DF				6X52DF-1.1 6X52DF-2.1	6X52DF-A-1.0 6X52DF-M-1.0		
Change History	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	E	C
	C	sjo101	mhu019	18.04.2024	CNAA005392	Drawing updated	4	3
	B	20045890	mhu019	26.03.2018	EAAD088933	Legacy information. See corresponding ChangeNotice	4	3
	A	dki021	rsc001	04.07.2017	EAAD087876	Legacy information. See corresponding ChangeNotice	4	3
	–	20045890	bha009	18.01.2016	EAAD086353	Legacy information. See corresponding ChangeNotice	4	3

Approved | Activity Code

WIN GD Winterthur Gas & Diesel

ENGINE SEATING/FOUNDATION

Foundation: STANDARD

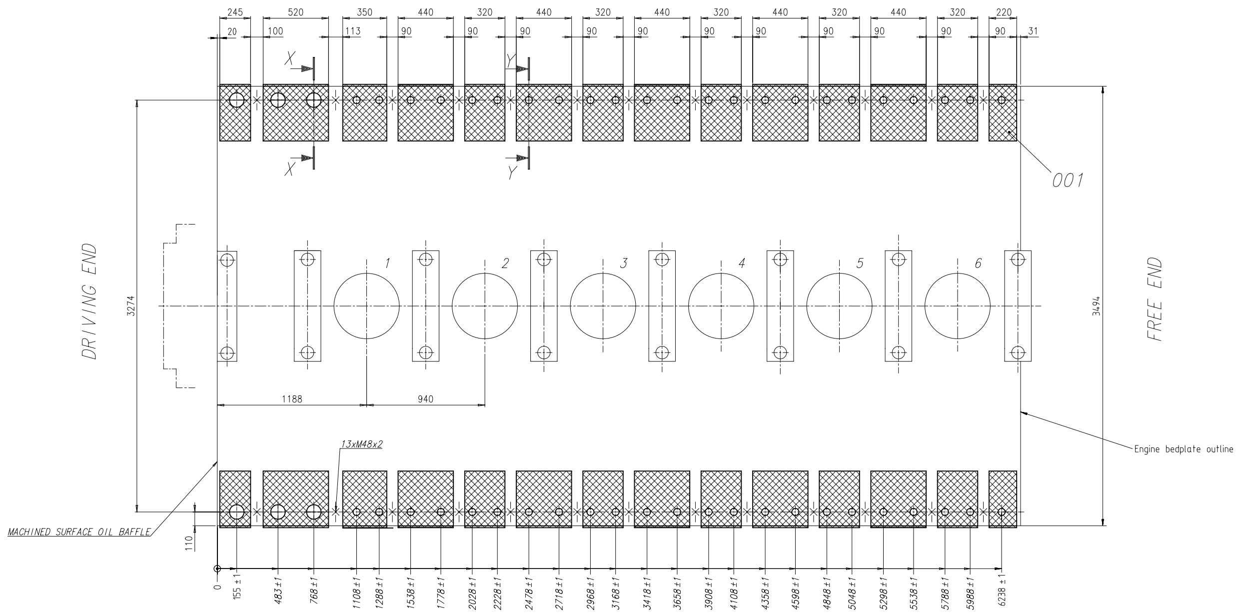
separate BOM available | Dimension

Scale 1:25	NX	Units [mm] [kg]	Basic Material	Net Weight	1105
Main Design	Yes	Design Group 9710	Q-Code X X 0	Standard	WDS
Qty per	Engine	A0	Item ID PAAD214975	Drawing Page/s	1/3

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

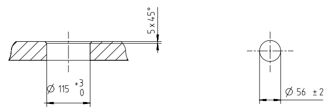
B-B

CHOCK AND DRILLING PLAN FOR FOUNDATION BOLTS

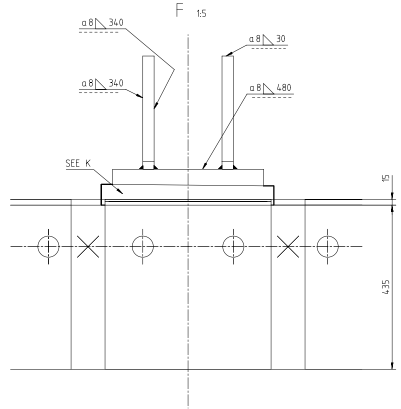


X-X 1:5

Y-Y 1:5

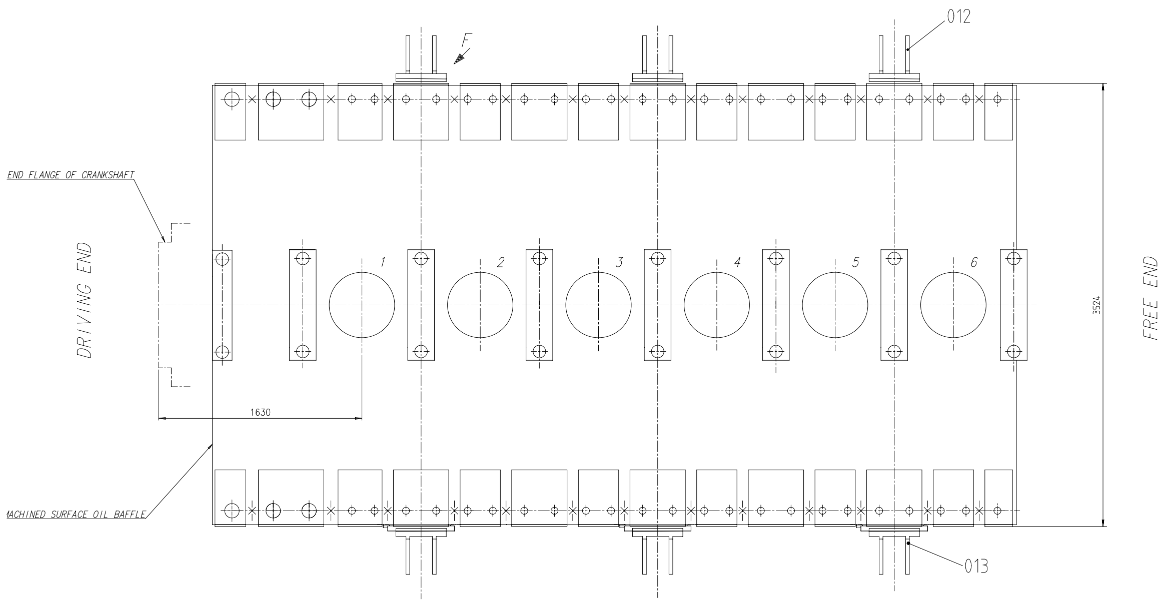


F 1:5



B-B

ENGINE SIDE STOPPER ARRANGEMENT WITH WELDED TYPE



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

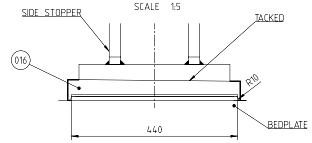
TABLE : DIMENSIONS OF EPOXY RESIN CHOCKS *1)

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.	max.
6	5	5115	42629	107	256

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

VIEW K

SCALE 1:5



✳ SHOWN ON DRAWING

WELD QUALITY LEVEL D (SEE 4-107.345.444)

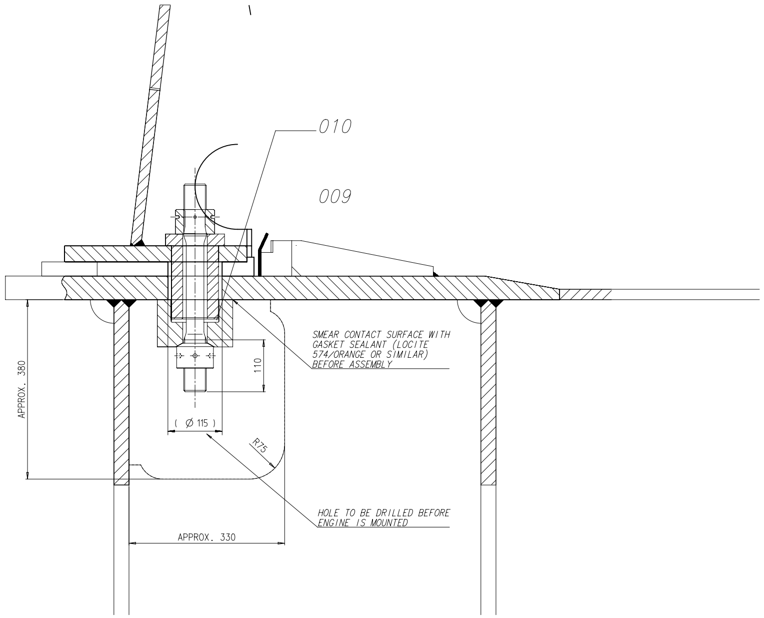
SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Change	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code		
	C	sjo101	mhu019	18.04.2024	CNAA005392	Drawing updated		4	3
						Approved		E	C

[mm] [kg] 1:25 NX A0 Item ID PAAD214975 Drawing Page/s 2/3

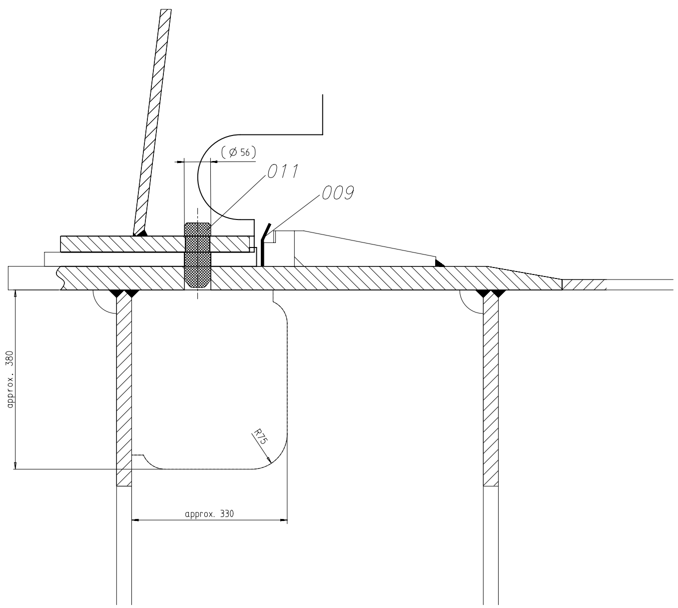
C-C

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOCK



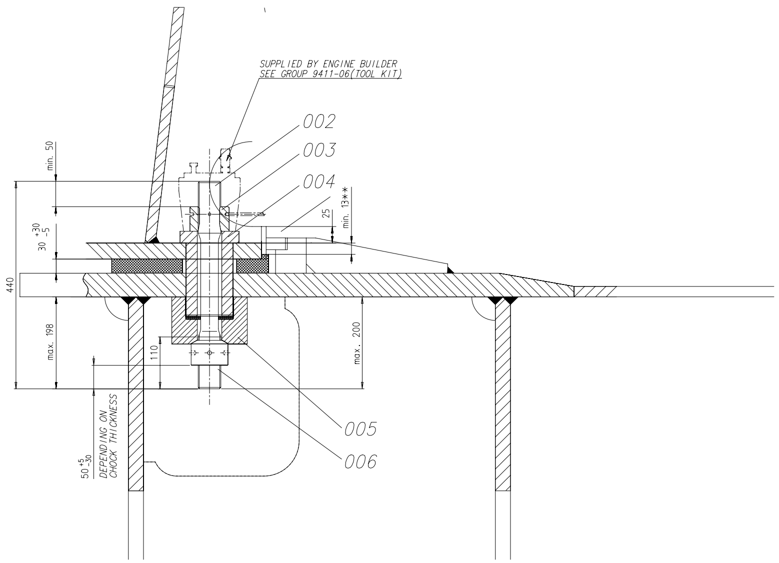
D-D

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOCK



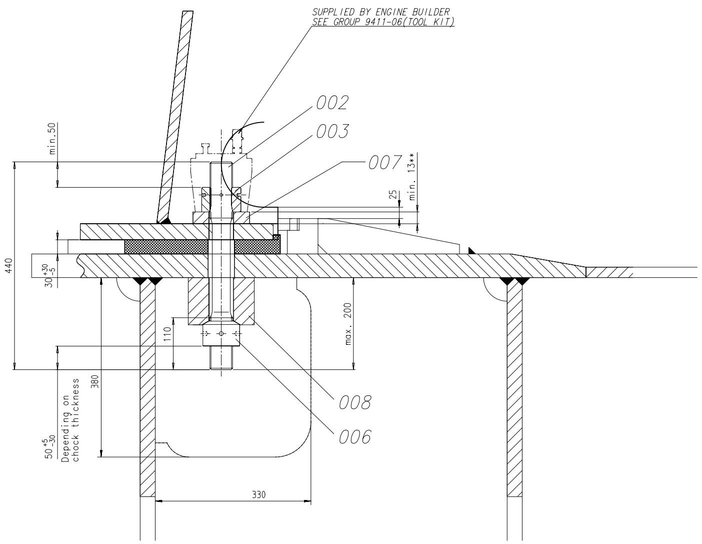
C-C

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 THINKNESS FROM 25MM UP TO 60MM.
POS. 009-011: MATERIAL AND DESIGN DETERMINED BY SHIPYARD.

** contact surface between
wedge and engine bedplate

Change	C	sjo101	mhu019	18.04.2024	CNAA005392	Drawing updated	4	3
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis Approved Activity Code	E	C

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

[mm] [kg] 1:25 NX A0 Item ID PAAD214975 Drawing Page/s 3/3

SEQ NO	QTY	Item ID	Item Name / Dimension	Standard-ID	Basic Material	Net Weight
1	1	107.398.394.500	EPOXY RESIN			0.001
2	60	107.401.786.001	ELASTIC BOLT		W-FA-34CrMo-QT	4.4
3	60	107.345.876.008	ROUND NUT M48		W-FA-42CrMo-QT	1.42
4	8	107.401.785.001	SLEEVE		34CrMo4 SCM 435	8.3
5	8	PAAD286932	BUSH		W-FA-34CrMo-QT	10.1
6	60	107.246.051.001	SPHERICAL ROUND NUT		W-FA-34CrMo-QT	1.2
7	52	107.343.352.001	SEATING WASHER		W-FA-34CrMo-QT	1.8
8	52	107.401.838.001	BUSH		W-FA-34CrMo-QT	7.8
9	1	107.367.119.001	SEALING PIECE			0.001
10	8	107.401.836.001	JOINT DISC			0.001
11	52	107.401.837.001	PLUG			0.2
12	4	PAAD214749	ENGINE SIDE STOPPER			20.3
13	4	PAAD214952	ENGINE SIDE STOPPER			20.3
16	8	107.325.275.001	WEDGE 45x25x450		W-FU-235-JR	3.8
17	1	PAAD216050	RIB		W-FU-235-J0	33.9
18	1	107.401.839.500	FITTING INSTRUCTIONS			0.001

Prod.				
	7 X52 7 X52DF	7 X52DF-2.1		

Change History

Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved / Activity Code	E	C
B	sna102	mhu019	07.11.2022	CNAA002687	Main Design/Drawing Introduced		4	3
A	dki021	mhu019	19.10.2018	EAAD089872	Legacy information. See corresponding ChangeNotice		4	-
-	dki021	hdo002	12.10.2017		-		-	-

WIN GD
Winterthur Gas & Diesel

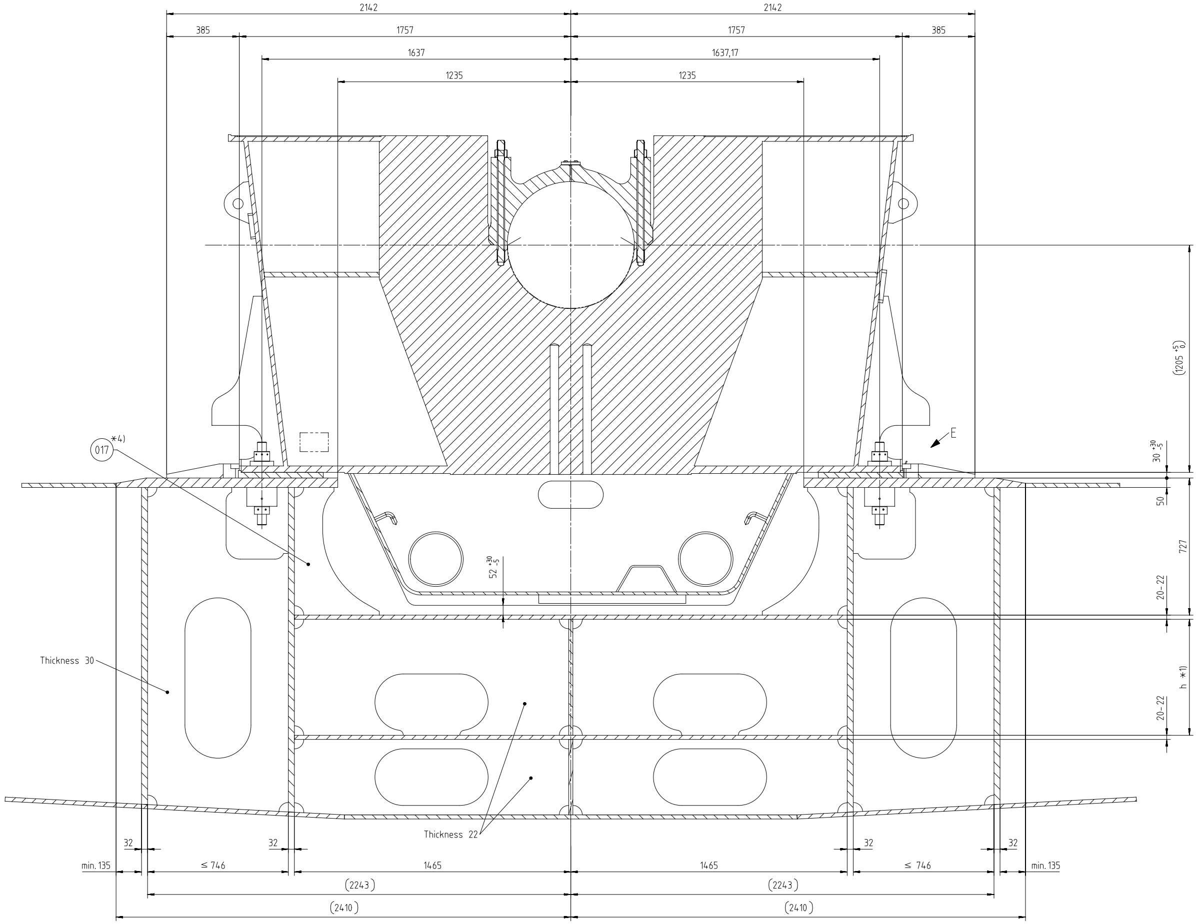
ENGINE SEATING/FOUNDATION

Bill **O**f **M**aterial

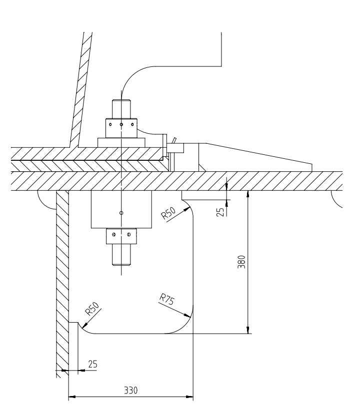
Dimension					
Units	[m] [kg]	Basic Material		Net Weight	1305
Main Design	Yes	Design Group	9710	Q-Code XXXXX	Standard WDS
Qty per	Engine	A4	Item ID PAAD273810	BOM Page/s	01/01

SECTION A-A
SCALE 1:10

DRIVING END



DETAIL E
SCALE 1:5



REMARKS:

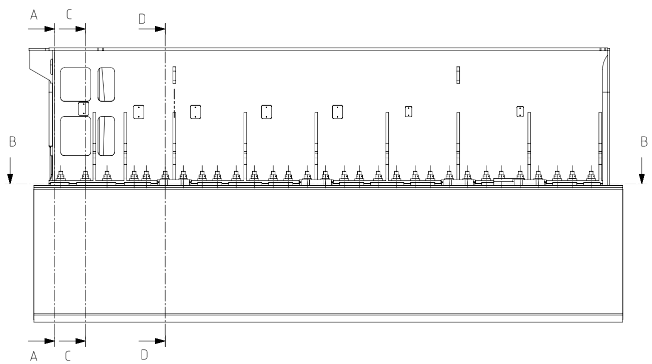
*1) HEIGHT TO BE DETERMINED BY SHIPYARD. FOR DIMENSIONS AND LAYOUT OF LUB. OIL DRAIN TANK AND DRAINS REFER TO DESIGN GROUP 9722

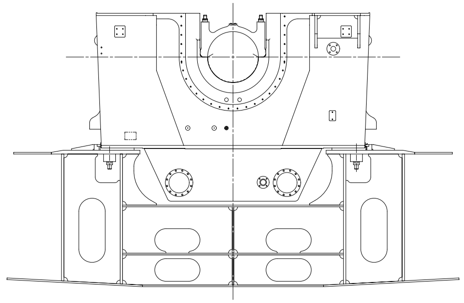
*2) CHOCK THICKNESS 30^{+30}_{-5}MM

- FINAL CHOCK THICKNESS TO BE DETERMINED BY SHIPYARD

*3) FINAL DISTANCES ACCORDING TO APPROPRIATE RULES

*4) QUANTITY DEPENDING ON SHIPYARD DESIGN





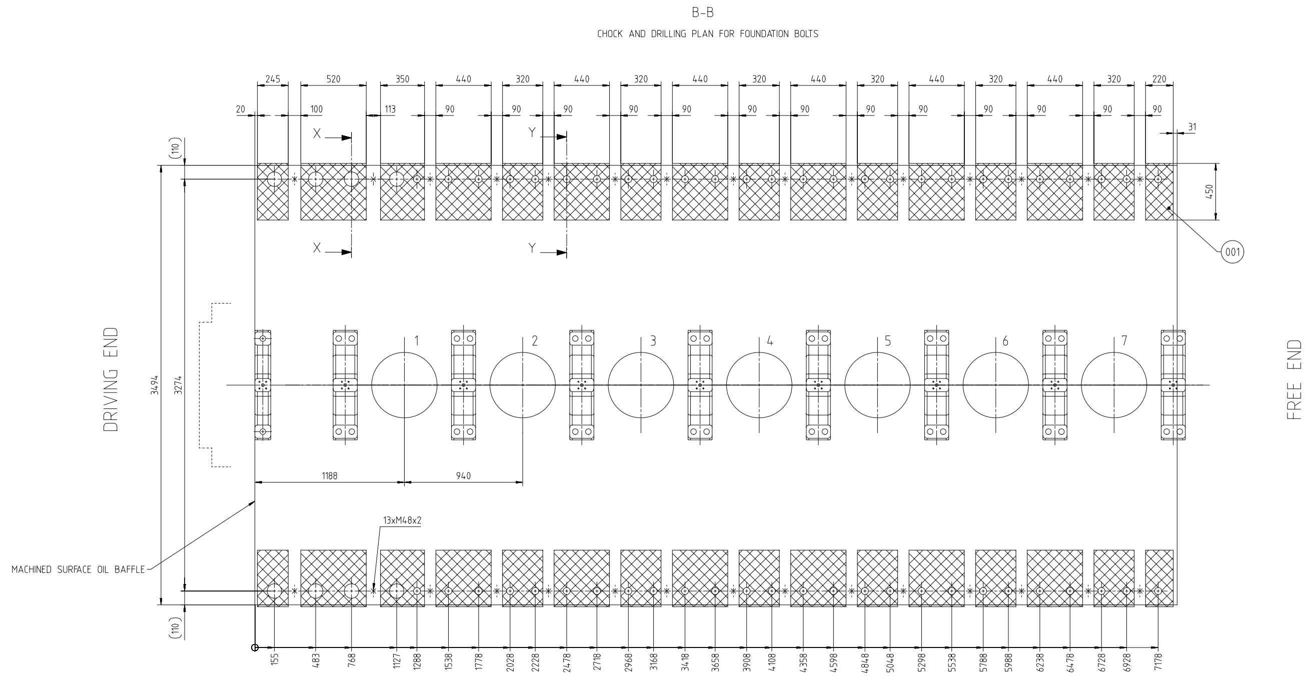
SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

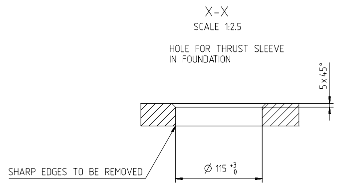
Prod.	7X52 7X52DF	7X52DF-2.1						
Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved / Activity Code	E	C
B	sna102	mhu019	07.11.2022	CNAA002687	Main Design/Drawing Introduced		4	3
A	dki021	mhu019	19.10.2018	EAAD089872	Legacy information. See corresponding ChangeNotice		4	-
-	dki021	hdo002	12.10.2017		-		-	-

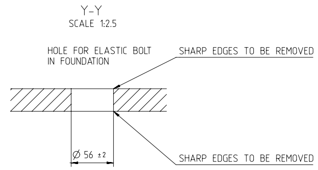
WIN GD Winterthur Gas & Diesel

ENGINE SEATING/FOUNDATION

separate BOM available	Dimension	standard engine seating			
Scale 1:25 NX	Units [mm] [kg]	Basic Material		Net Weight	118.4
	Main Design Yes	Design Group 9710	Q-Code XXXXX	Standard	WDS
	Qty per Engine A0	Item ID	PAAD273810	Drawing Page/s	1/3







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.

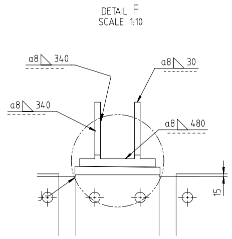
*3) Referring to a standardized chock thickness of 25 up to 60mm.

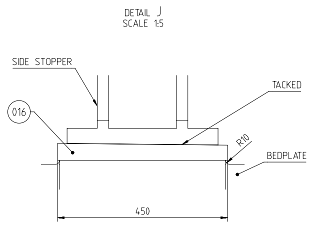
*4) with ╳ marked positions represent jacking screws

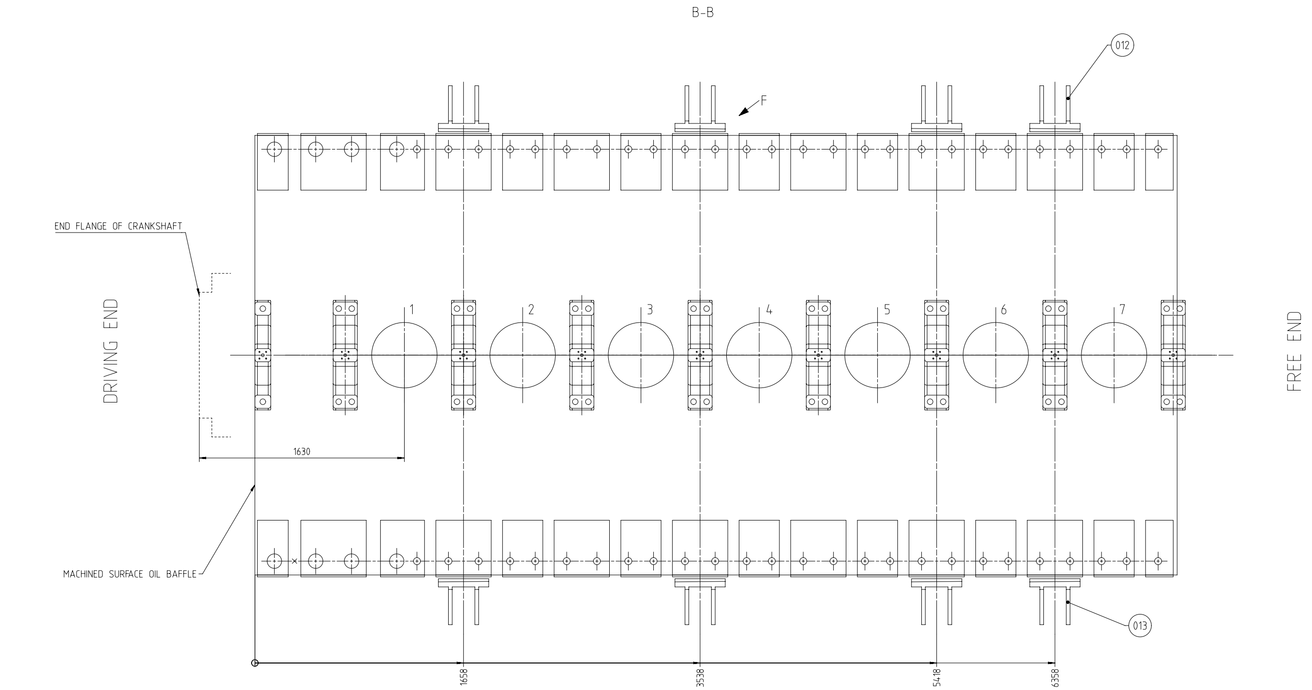
TABLE : DIMENSIONS OF EPOXY RESIN CHOCKS *1)

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/mm^2	mm	cm^2	dm^3 min.	max.
7	5	5895	49038	123	294

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







✳ SHOWN ON DRAWING

standard engine seating

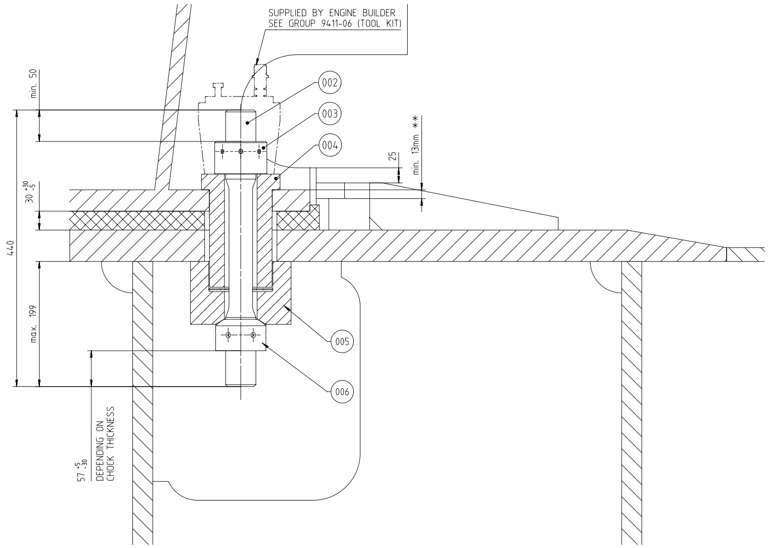
Change	B	sna102	mhu019	07.11.2022	CNAA002687	Main Design/Drawing Introduced	4	3
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis Approved	Activity Code E	C

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

[mm] [kg] | 1:15 | NX | A0 | Item ID PAAD273810 | Drawing Page/s 2/3

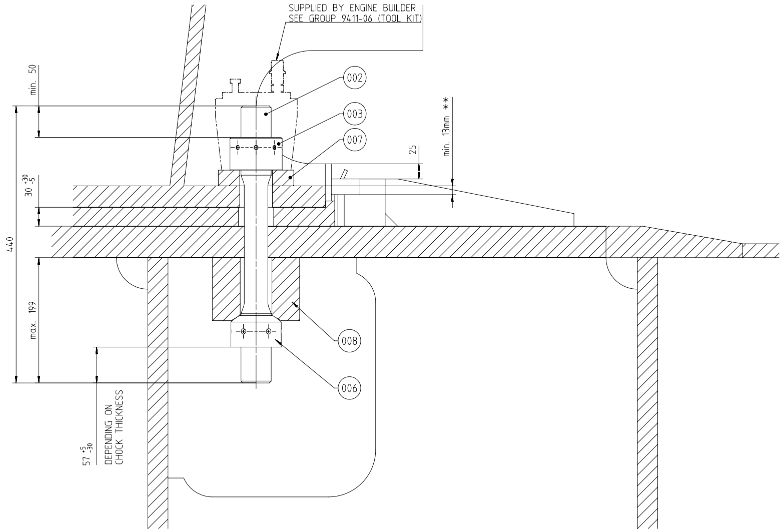
C-C

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOK



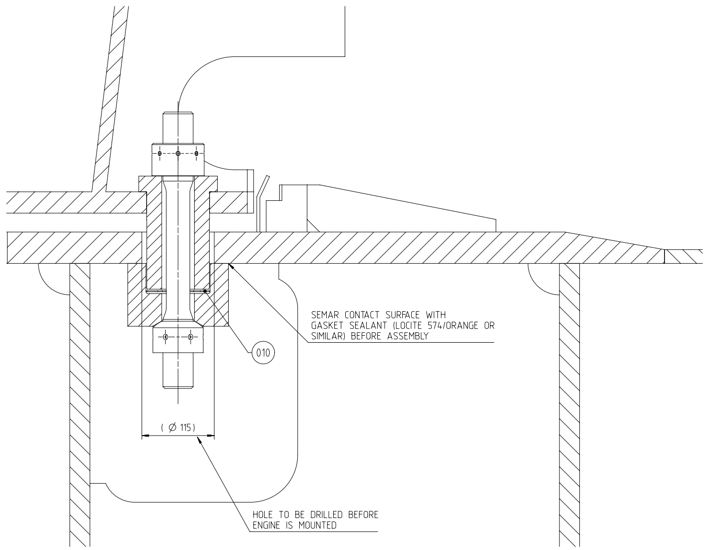
D-D

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOK



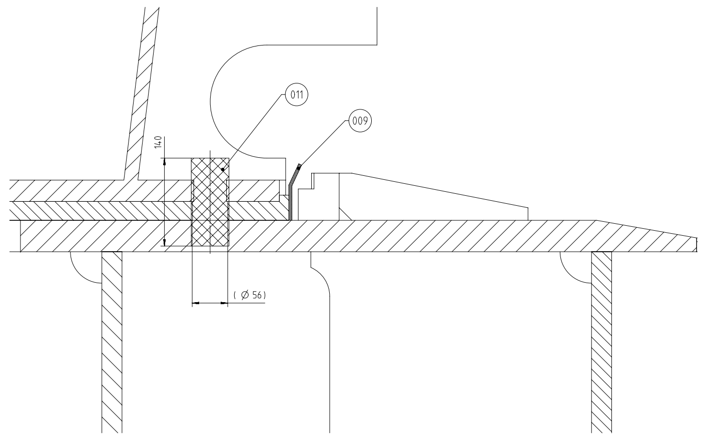
C-C

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOK



D-D

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOK



** CONTACT SURFACE BETWEEN WEDGE AND ENGINE BEDPLATE

standard engine seating

Change	B	sna102	mhu019	07.11.2022	CNAA002687	Main Design/Drawing Introduced	4 / 3
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis — Approved	Activity Code E / C

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

[mm] [kg] | 1:3 | NX | A0 | Item ID PAAD273810 | Drawing Page/s 3/3

SEQ NO	QTY	Item ID	Item Name / Dimension	Standard-ID	Basic Material	Net Weight
1	1	107.398.394.500	EPOXY RESIN			0.001
2	68	107.401.786.001	ELASTIC BOLT		W-FA-34CrMo-QT	4.4
3	68	107.345.876.008	ROUND NUT M48		W-FA-42CrMo-QT	1.42
4	8	107.401.785.001	SLEEVE		34CrMo4 SCM 435	8.3
5	8	107.401.787.001	BUSH		W-FA-34CrMo-QT	10.1
6	68	107.246.051.001	SPHERICAL ROUND NUT		W-FA-34CrMo-QT	1.2
7	60	107.343.352.001	SEATING WASHER		W-FA-34CrMo-QT	1.8
8	60	107.401.838.001	BUSH		W-FA-34CrMo-QT	7.8
9	1	107.367.119.001	SEALING PIECE			0.001
10	8	107.401.836.001	JOINT DISC			0.001
11	52	107.401.837.001	PLUG			0.2
12	4	PAAD214749	ENGINE SIDE STOPPER			20.3
13	4	PAAD214952	ENGINE SIDE STOPPER			20.3
16	8	107.325.275.001	WEDGE 45x25x450		W-FU-235-JR	3.8
17	1	PAAD216050	RIB		W-FU-235-J0	33.9
18	1	107.401.839.500	FITTING INSTRUCTIONS			0.001

Prod.				
	8 X52 8 X52DF	8 X52DF-2.1		

Change History

Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved	Activity Code	E	C
A	sna102	mhu019	07.11.2022	CNAA002687	Main Design/Drawing Introduced			4	3
-	sde101	mhu019	03.05.2018		-			-	-

WIN GD
Winterthur Gas & Diesel

ENGINE SEATING/FOUNDATION

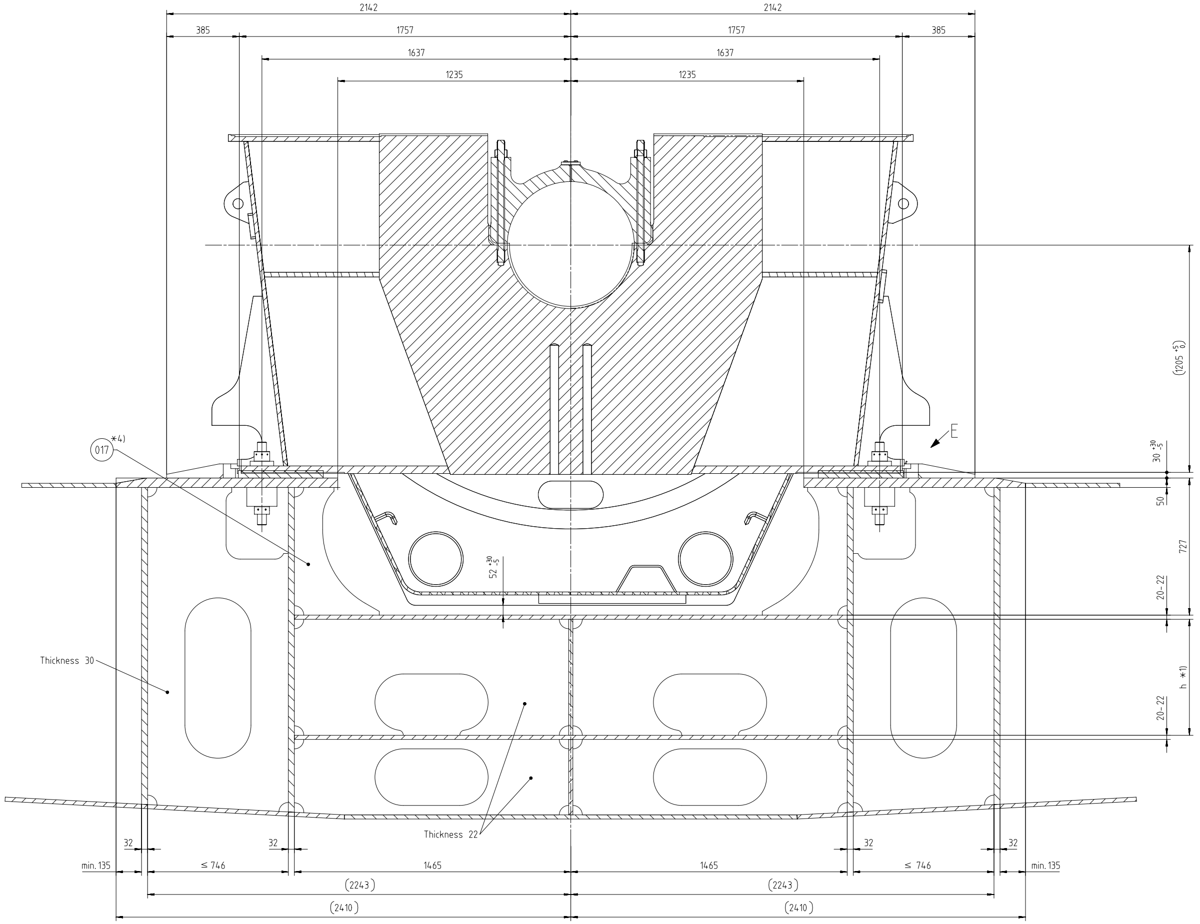
Bill **O**f **M**aterial

Dimension					
Units	[m] [kg]	Basic Material		Net Weight	1438
Main Design	Yes	Design Group	9710	Q-Code XXXXX	Standard WDS
Qty per	Engine	A4	Item ID PAAD287859	BOM Page/s	01/01

SECTION A-A

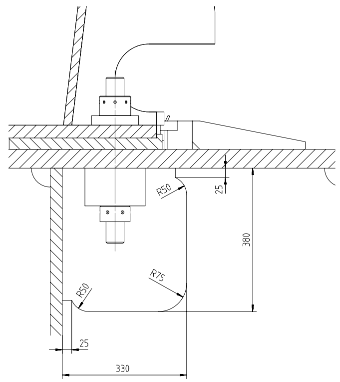
SCALE 1:10

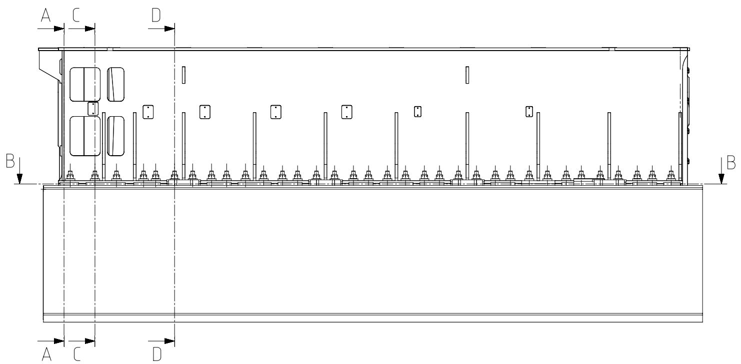
DRIVING END

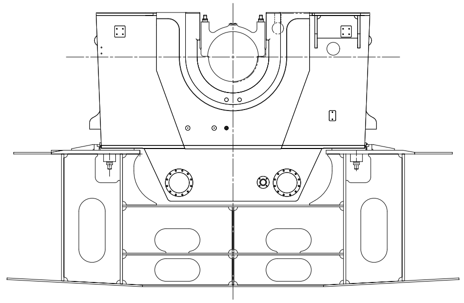


DETAIL E

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

Prod.	8X52 8X52DF	8X52DF-2.1					
Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	E	C
A	sna102	mhu019	07.11.2022	CNAA002687	Main Design/Drawing Introduced	4	3
-	sde101	mhu019	03.05.2018		-	-	-

Approved | Activity Code

Winterthur Gas & Diesel

ENGINE SEATING/FOUNDATION

separate BOM available

Dimension

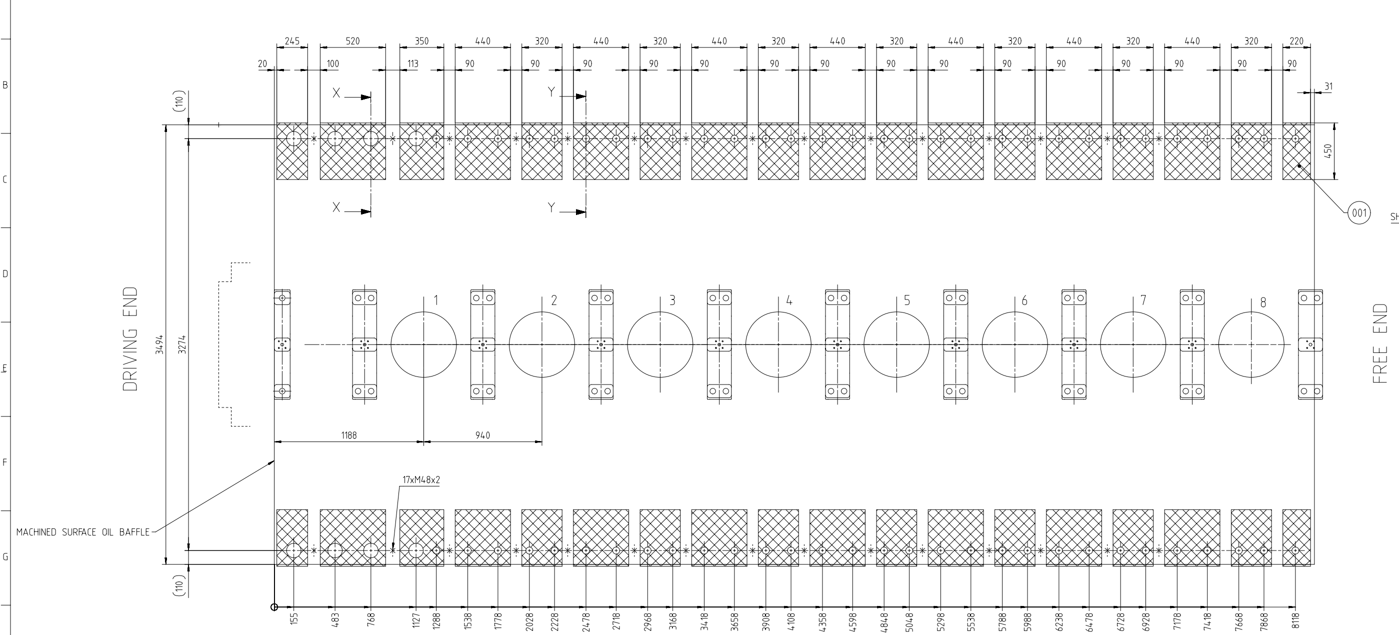
Scale 1:25	NX	Units [mm] [kg]	Basic Material
Net Weight	1438	Main Design	Yes
Design Group	9710	Q-Code	XXXXX
Standard	WDS	Qty per	Engine
A0	Item ID	PAAD287859	Drawing Page/s 1/3

SURFACE PROTECTION SEE GROUP 0344

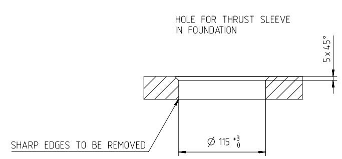
TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

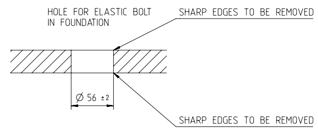
CHOCK AND DRILLING PLAN FOR FOUNDATION BOLTS

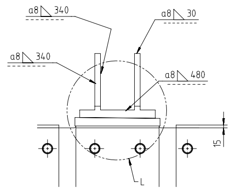


SECTION X-X



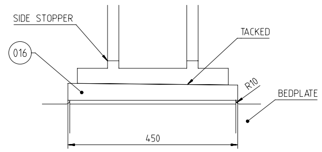
SECTION Y-Y

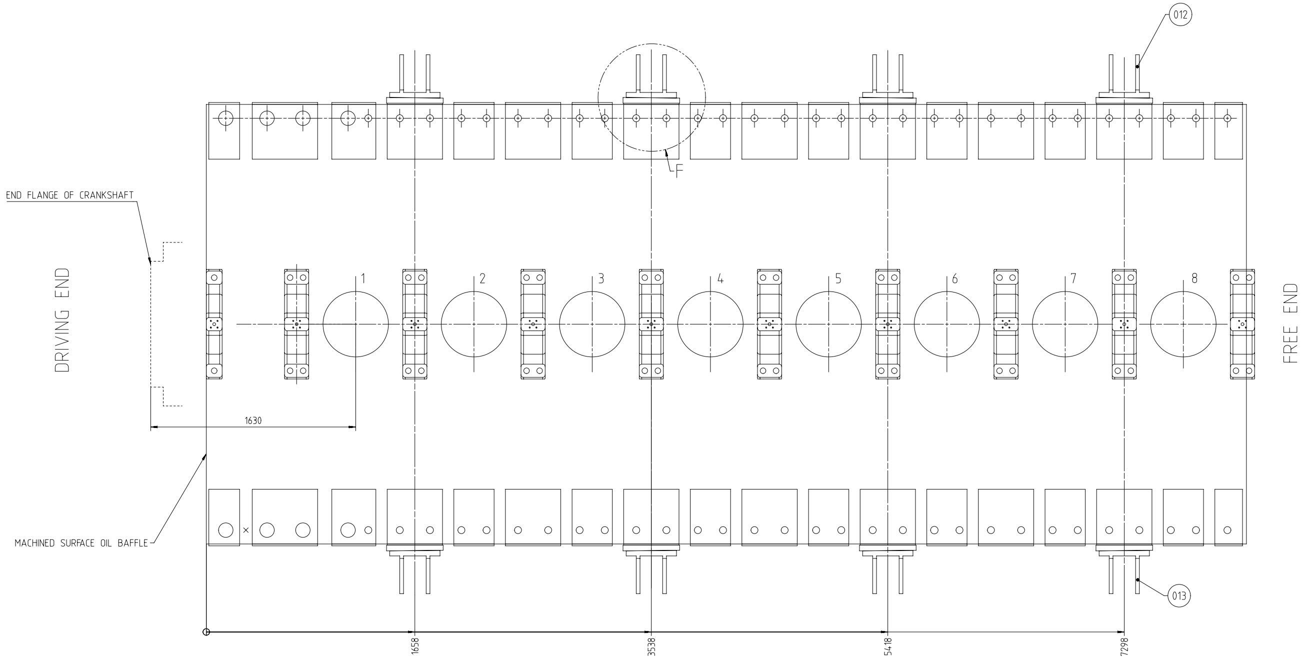




DETAIL L

SCALE 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/mm^2	mm	cm^2	dm^3 min.	max.
8	5	6655	55447	144	345

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

✳ SHOWN ON DRAWING

standard engine seating

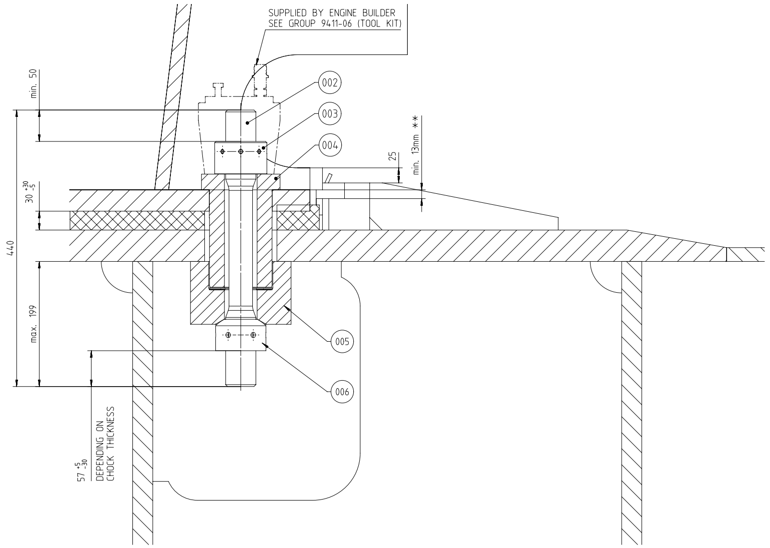
A	sna102	mhu019	07.11.2022	CNAA002687	Main Design/Drawing Introduced	4 · 3
Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis · Approved	Activity Code E · C

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

[mm] [kg] · 1:15 · NX · A0 · Item ID PAAD287859 · Drawing Page/s 2/3

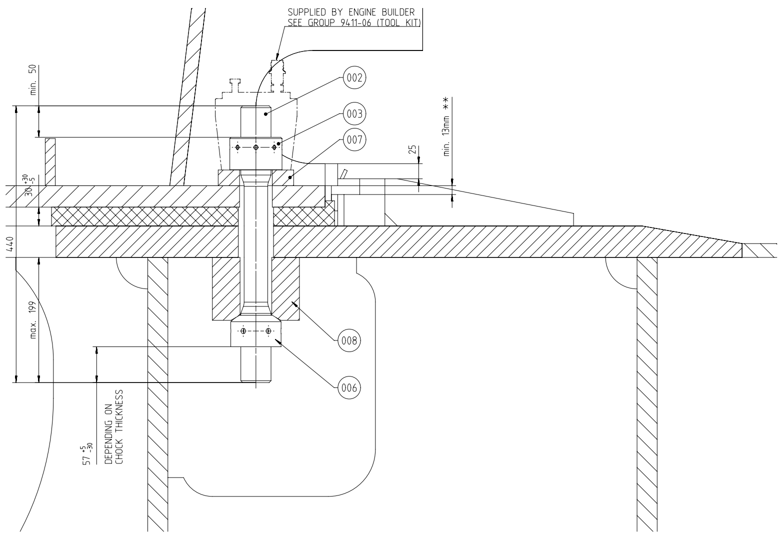
C-C

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOK



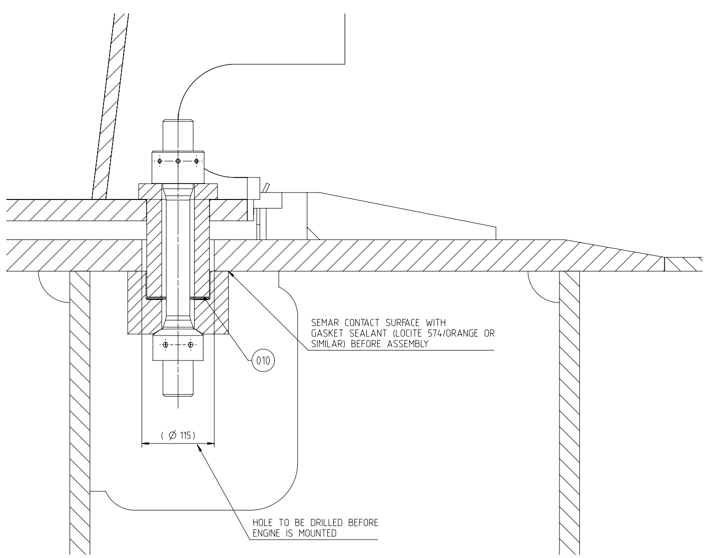
D-D

ARRANGEMENT AFTER POURING
THE EPOXY RESIN CHOK



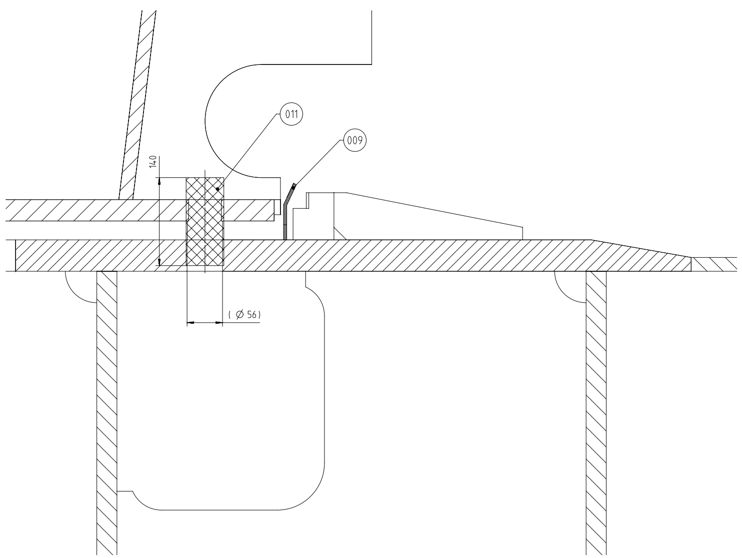
C-C

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOK



D-D

ARRANGEMENT BEFORE POURING
THE EPOXY RESIN CHOK



** CONTACT SURFACE BETWEEN WEDGE AND ENGINE BEDPLATE

standard engine seating

Change	A	sna102	mhu019	07.11.2022	CNAA002687	Main Design/Drawing Introduced	4	3
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis Approved / Activity Code	E	C

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

[mm] [kg] | 1:3 | NX | A0 | Item ID PAAD287859 | Drawing Page/s 3/3

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. $50x10^{-6}$ 1/K
Coefficient of friction	normal	min. 0.3

Required properties of epoxy resin material

Approved

Free space for lic.

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

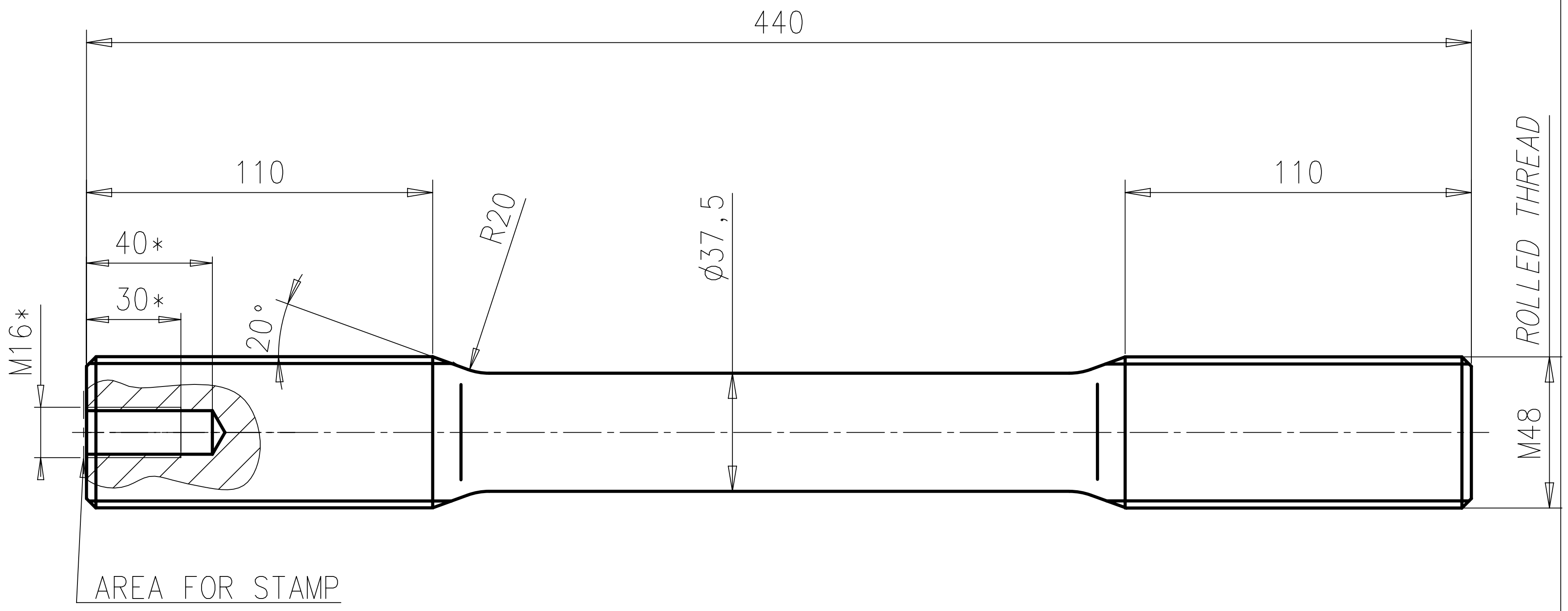
Epoxydharz

Units: mm kg | NX | Basic Material | Net Weight 0

Made	02.04.2008 M.PRSTEC	Scale	-	Size A4	Page 1/1
Chkd		Design Group	9710	Material ID	107.398.394.500
Appd	07.04.2008 MPR002 Prstec			Drawing ID	107.398.394

Rev. A

DID - DIMENSIONAL DRAWING - Confidential



*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

Approved

Free space for lic.

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

Modif.	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

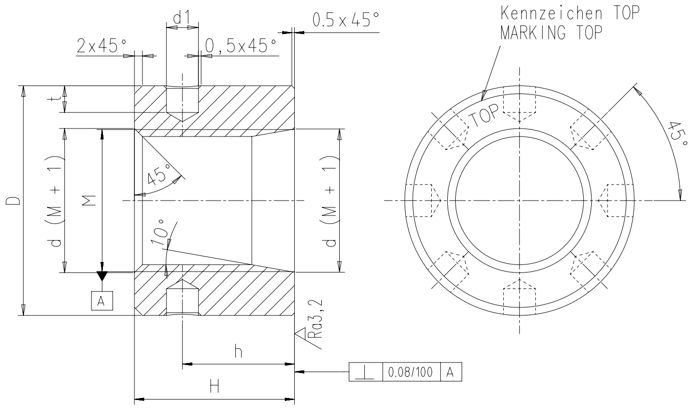
Units mm kg | NX | Basic Material W-FA-34CrMo-QT | Net Weight 4,4

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

Made	27.06.2008 M.PRSTEC	Scale 1:2	Size A3
Chkd		Design Group 9710	Page 1/1
Appd	03.07.2008 MPR002 Prstec		

Material ID 107.401.786.001
Drawing ID 107.401.786
Rev. C

DID - DIMENSIONAL DRAWING - Confidential



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	verguetet Rm = 900-1100 N/mm^2 HEAT TREATED
D >100 – ≤160	verguetet Rm = 800-950 N/mm^2 HEAT TREATED
D >160 – ≤250	verguetet Rm = 750-900 N/mm^2 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 lic.

Q-Code XQXXX | Standard ISO; JIS | Main Drw.

Modif.	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

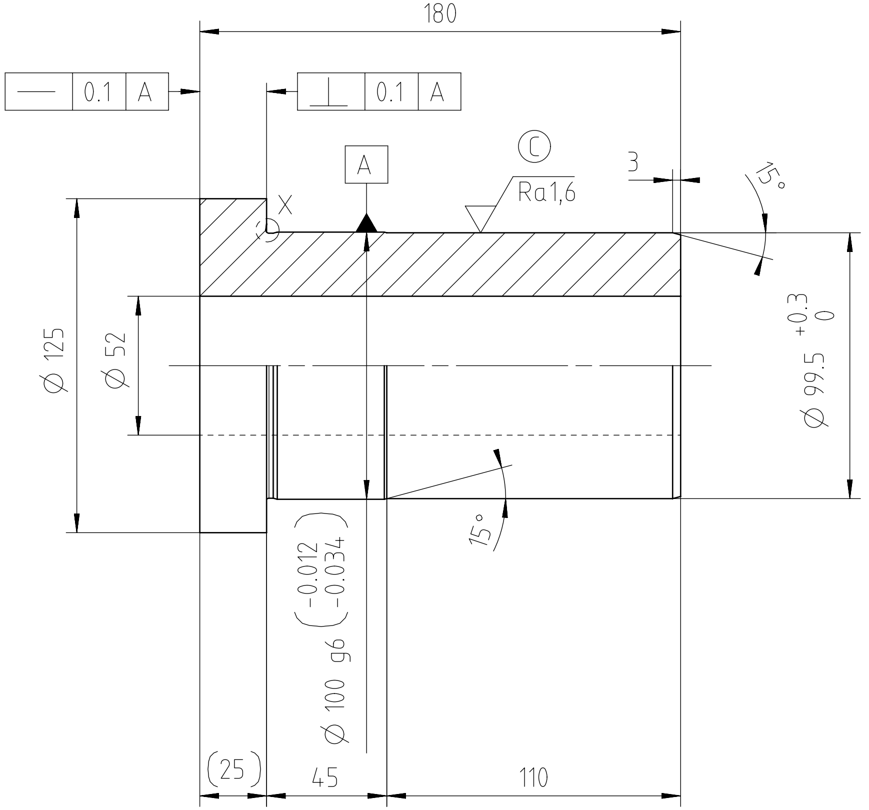
ROUND NUT

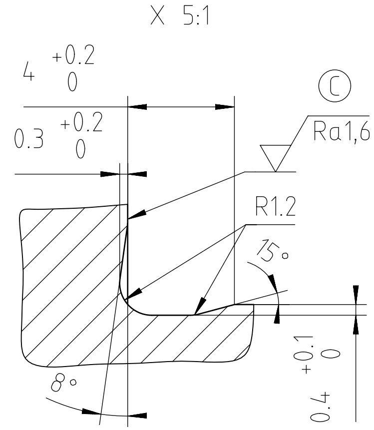
Units	mm kg
	NX
Basic Material	
Net Weight	
Made	19.08.2004 pne001 P.Neracher
Chkd	
Appd	20.08.2004 PNE001 Neracher
Scale	1:1
Design Group	3306
Size	A1
Page	1/1
Material ID	
Drawing ID	107.345.876
Rev.	C

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

Approved

DID - DIMENSIONAL DRAWING - Confidential





C Ra6,3 (√)

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

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

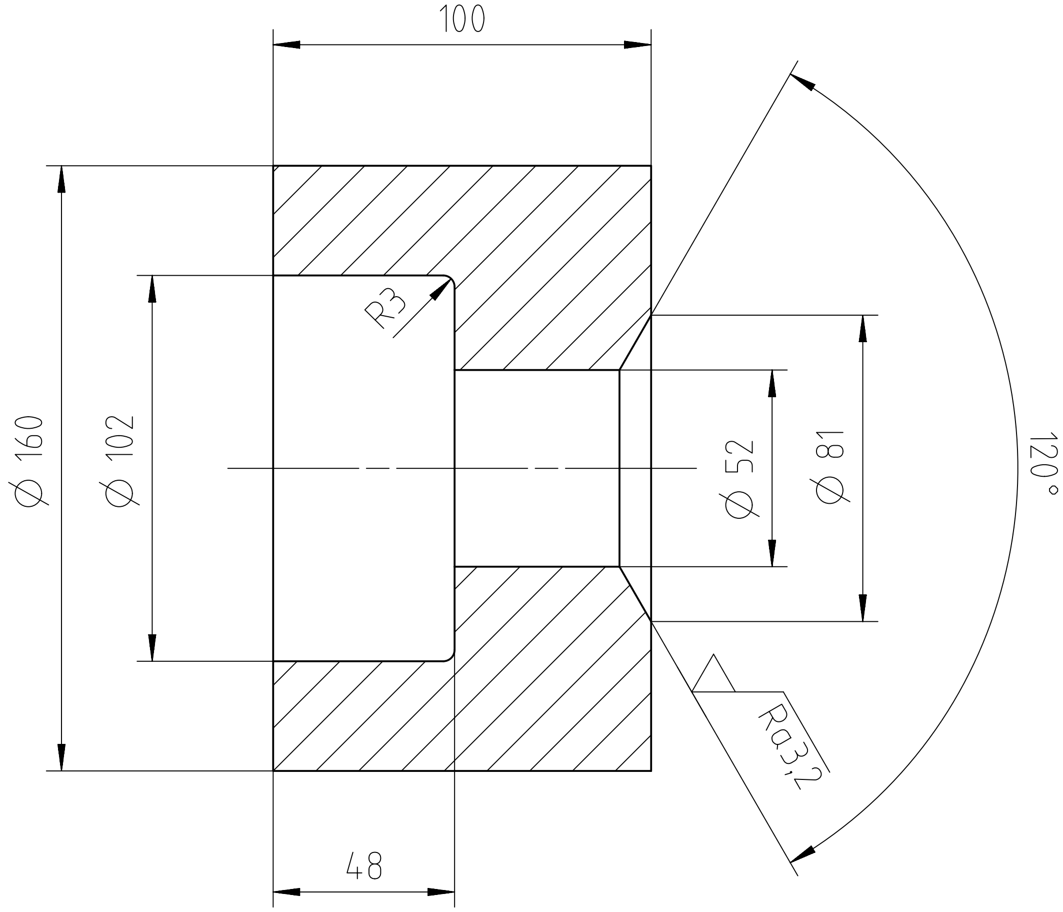
Approved

DID - DIMENSIONAL DRAWING - Confidential

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

Ra6,3 (√)

Kanten gebrochen
SHARP EDGES REMOVED



Approved

Free space for lic.

Q-Code	Main Drw.
XXXXX	
Standard	
ISO; JIS	

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

WIN GD
Winterthur Gas & Diesel

Product
W-2S

BUSH

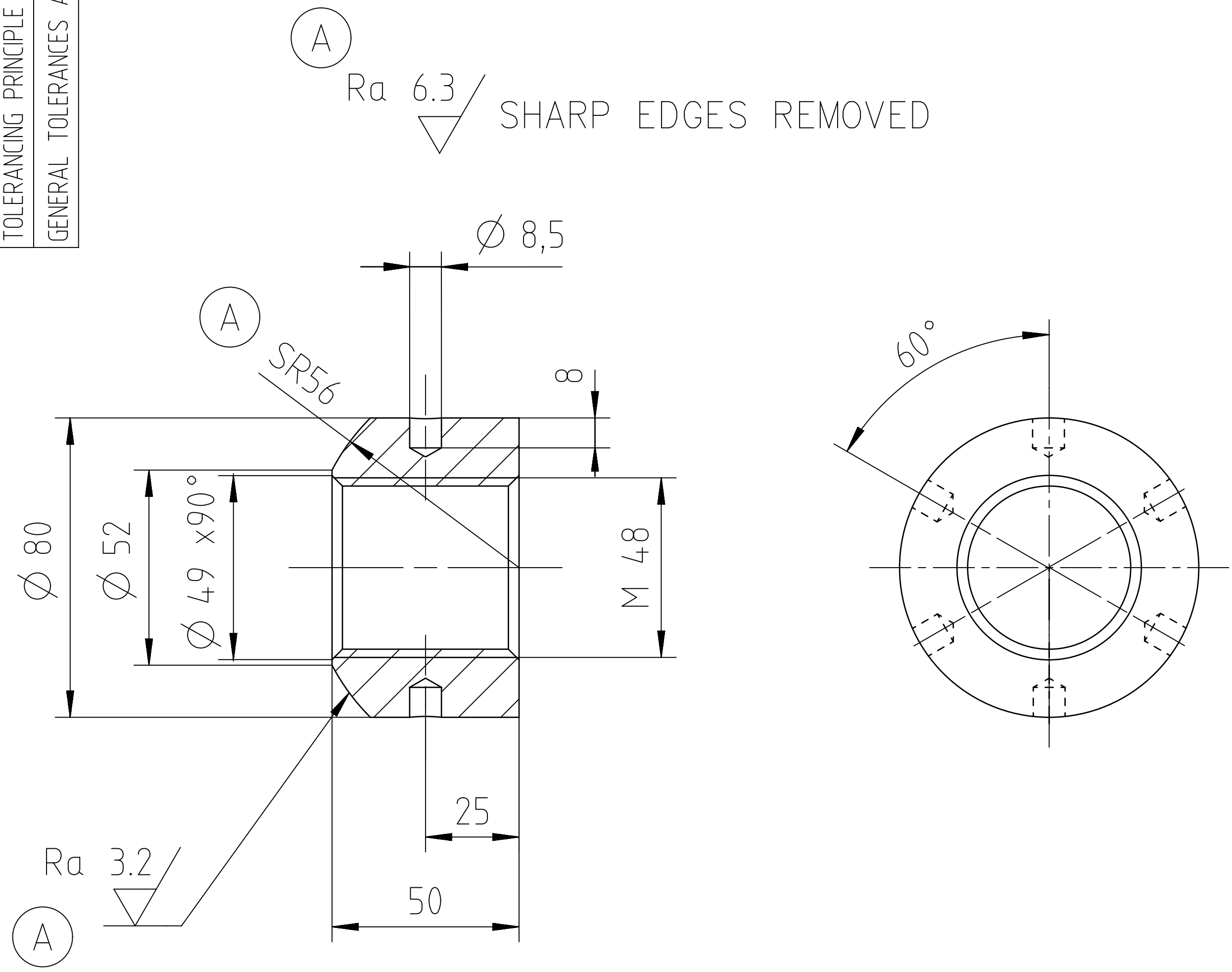
Buechse

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
Chkd	07.03.2018	wwa008 Wang		Design Group	9710	Material ID	PAAD286932
Appd	19.03.2018	mhu019 Hug				Drawing ID	DAAD097455

Rev. –

DID - DIMENSIONAL DRAWING - Confidential

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



Approved

Free space for lic.

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

Modif.												
	A	EAAD088473	10.10.2017									
		Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date

Winterthur Gas & Diesel

Product: W-2S

SPHERICAL ROUND NUT

Kugelige Rundmutter

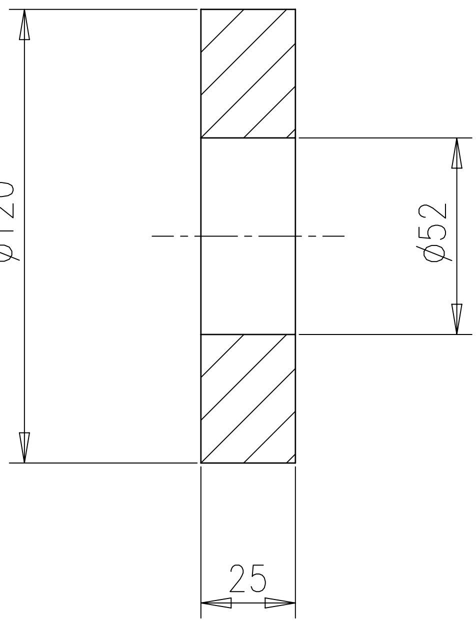
Units	mm kg	NX	Basic Material	W-FA-34CrMo-QT	Net Weight 1,2
Made	13.11.1995 R. Nideroest	Scale 1:2	Size A4	Page 1/1	Material ID 107.246.051.001
Chkd		Design Group 9710	Drawing ID 107.246.051		Rev. A
Appd	20.11.1995 MLU011 Lüthi				

DID - DIMENSIONAL DRAWING - Confidential

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	Main Drw.
							Standard ISO; JIS	
Modif.	A	7-29.891	29.09.2004	B	EAAD088473	10.10.2017		
		Number	Drawn date		Number	Drawn date	Number / Drawn date	Number / Drawn date

WIN GD
Winterthur Gas & Diesel

Product
W-2S

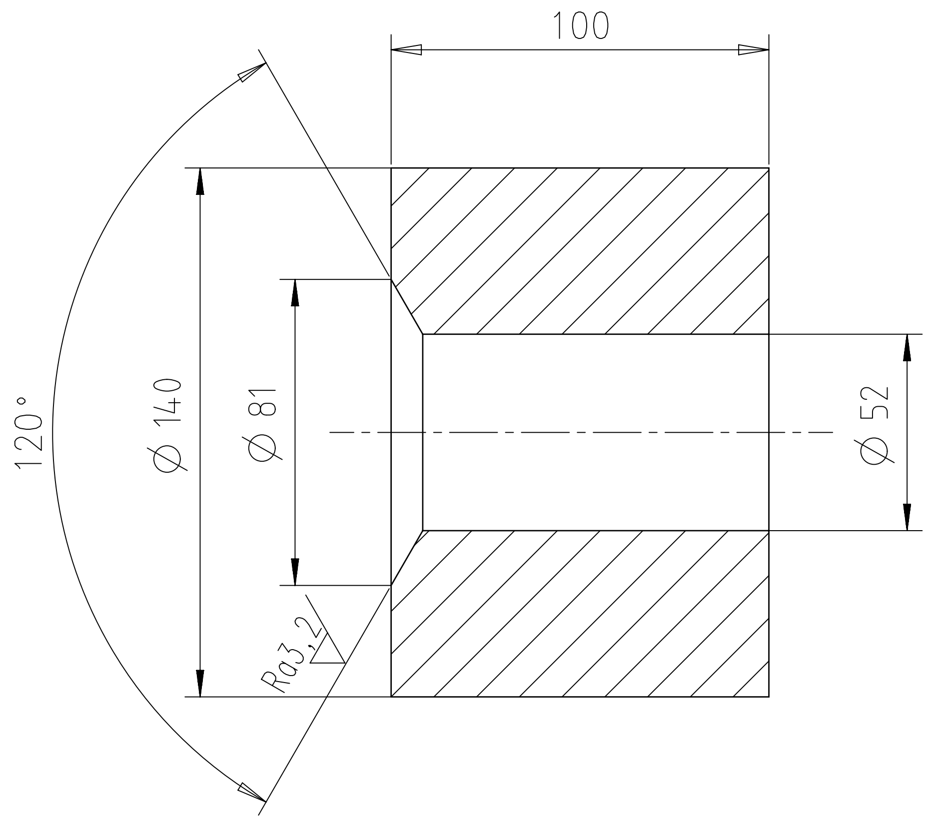
SEATING WASHER

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

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		Main Drw.
					Standard: ISO; JIS		
Modif.	A	EAAD088473	10.10.2017				
		Number	Drawn date	Number	Drawn date	Number	Drawn date

WIN GD
Winterthur Gas & Diesel

Product: W-2S

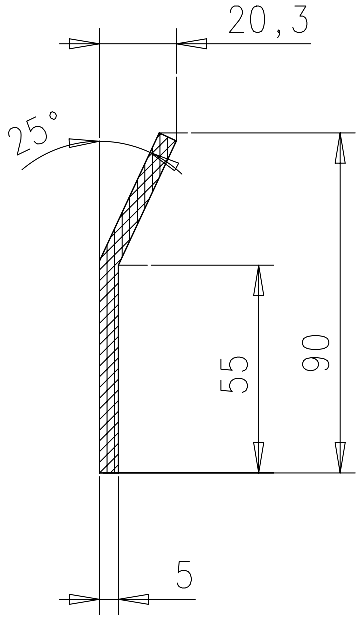
BUSH

Buechse

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

DID - DIMENSIONAL DRAWING - Confidential

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



Approved

Free space for lic.

Q-Code	Standard	Main Drw.
XXXXX	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
Chkd		Design Group 9710	Page 1/1
Appd	03.04.2006 SNA001		

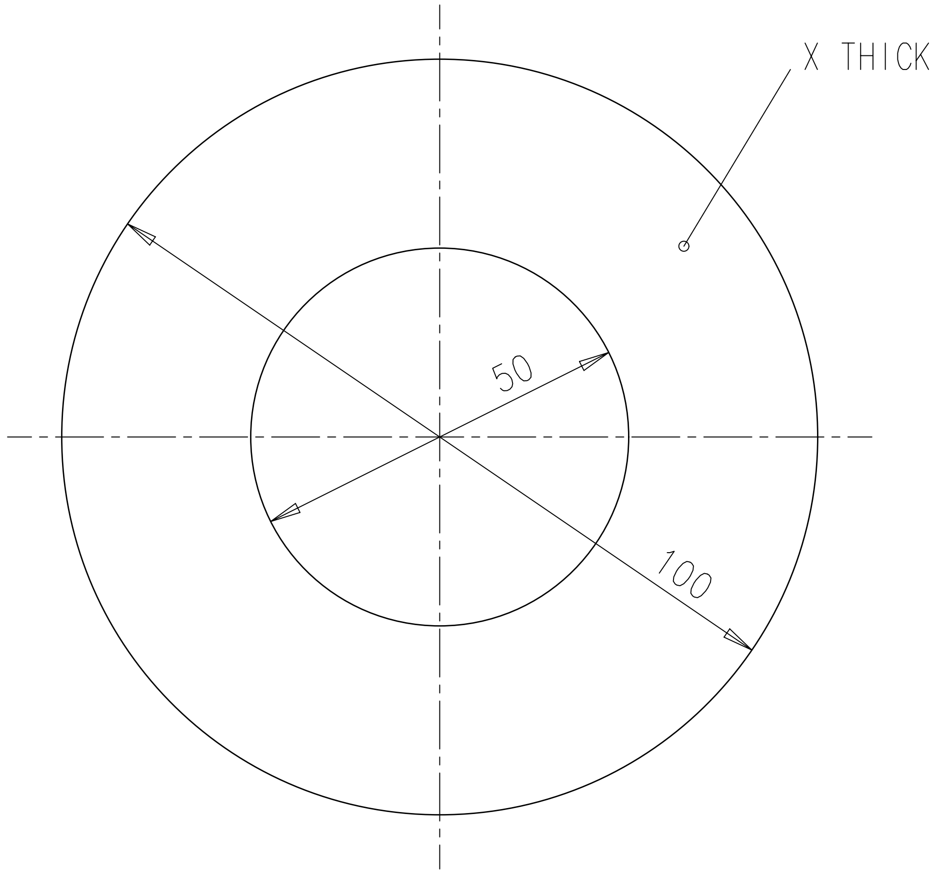
Material ID 107.367.119.001

Drawing ID 107.367.119

Rev. B

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.	

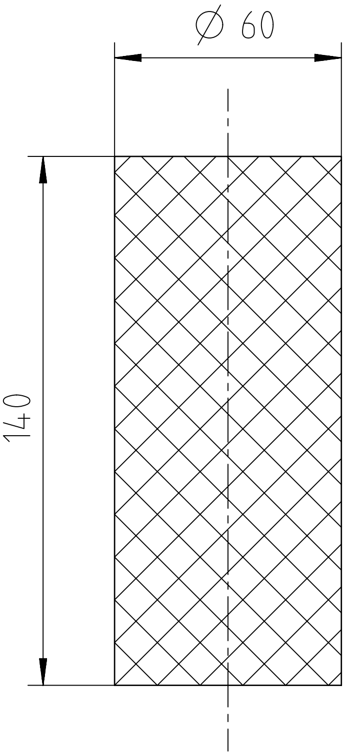
Modif.		Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date
	A	EAAD088473	10.10.2017									

Winterthur Gas & Diesel

Product	W-2S
Title	JOINT DISC
	Dichtscheibe
Units	mm kg
	NX
Basic Material	∗
Net Weight	0,001
Made	30.06.2008 M. PRSTEC
Chkd	
Appd	03.07.2008 MPR002 Prstec
Scale	1:1
Design Group	9710
Size	A4
Page	1/1
Material ID	107.401.836.001
Drawing ID	107.401.836
Rev.	A

DID - DIMENSIONAL DRAWING - Confidential

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

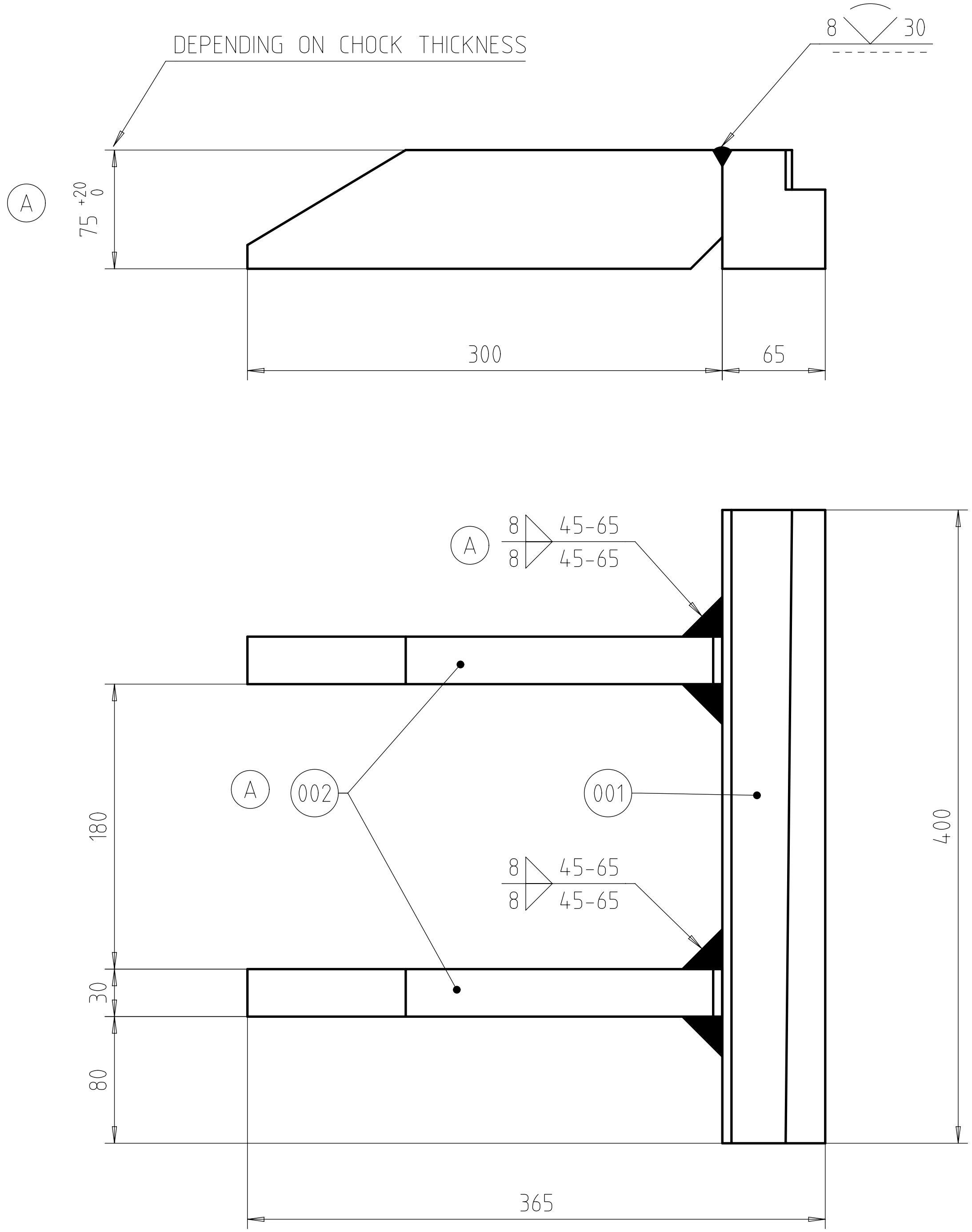
Product: W-2S

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
Chkd	Design Group 9710	Material ID 107.401.837.001	
Appd 03.07.2008 MPR002 Prstec		Drawing ID 107.401.837	Rev. A

DID - DIMENSIONAL DRAWING - Confidential



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

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	EAAD089996	23.10.2018									

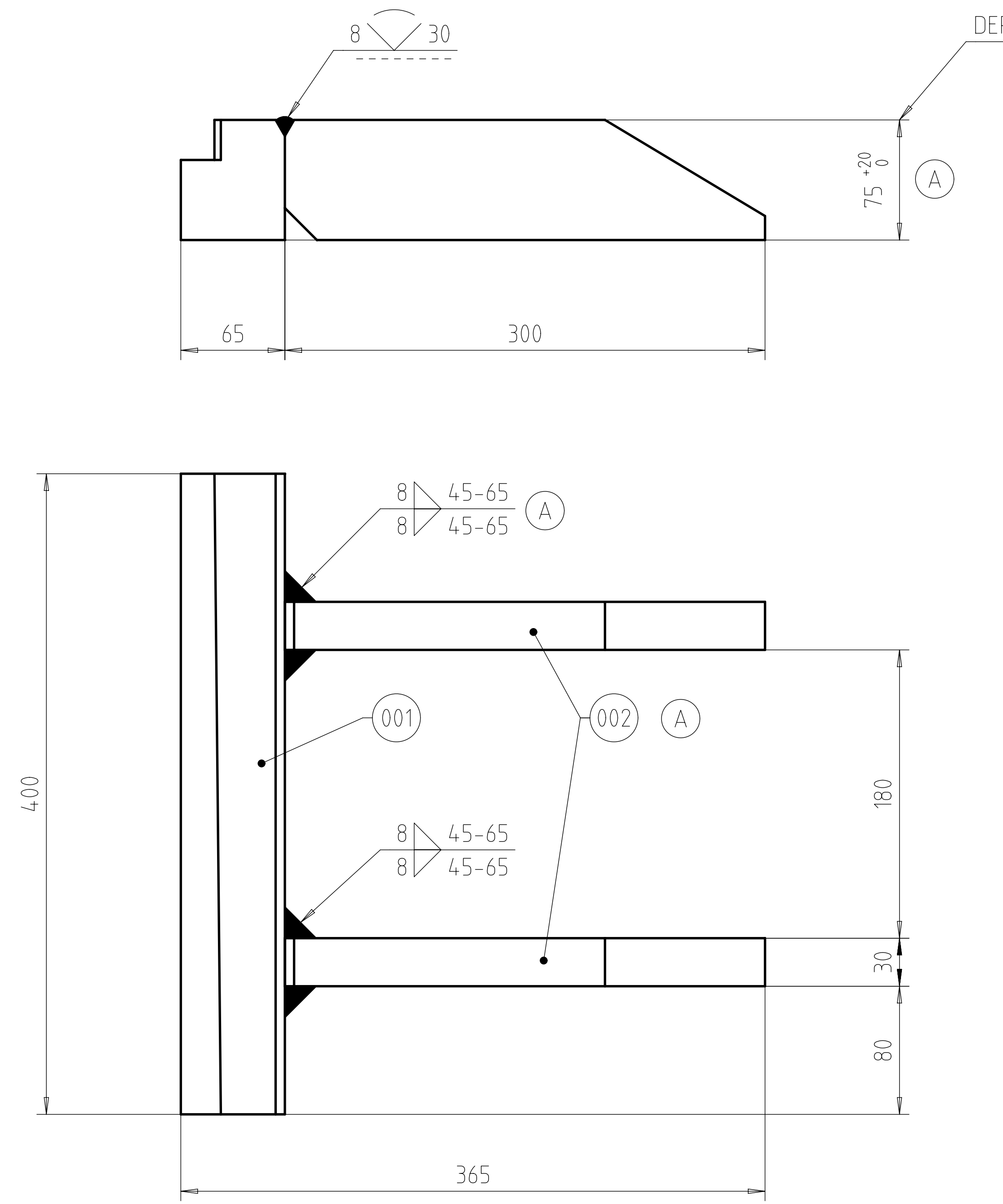
WIN GD
Winterthur Gas & Diesel

Product W-2S

ENGINE SIDE STOPPER
WELDED TYPE, FUEL SIDE
Motor-Seitenstopper
Geschweisst, Brennstoffseite

SURFACE PROTECTION SEE GROUP 0344	Units mm kg	NX	Basic Material	Net Weight 24
TOLERANCING PRINCIPLE ISO8015	Made 08.12.2015 Kashyap Patel	Scale 1:3	Size A3 / Page 1/1	Material ID PAAD214749
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Chkd 23.12.2015 mhu019 Hug	Design Group 9710	Drawing ID DAAD073571	Rev. A
	Appd 23.12.2015 bha009 Haag			

DID - DIMENSIONAL DRAWING - Confidential



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

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	EAAD089996	23.10.2018						

WIN GD
Winterthur Gas & Diesel

Product: W-2S

ENGINE SIDE STOPPER
WELDED TYPE, EXHAUST SIDE

Motor-Seitenstopper
Geschweisst, Abgasseite

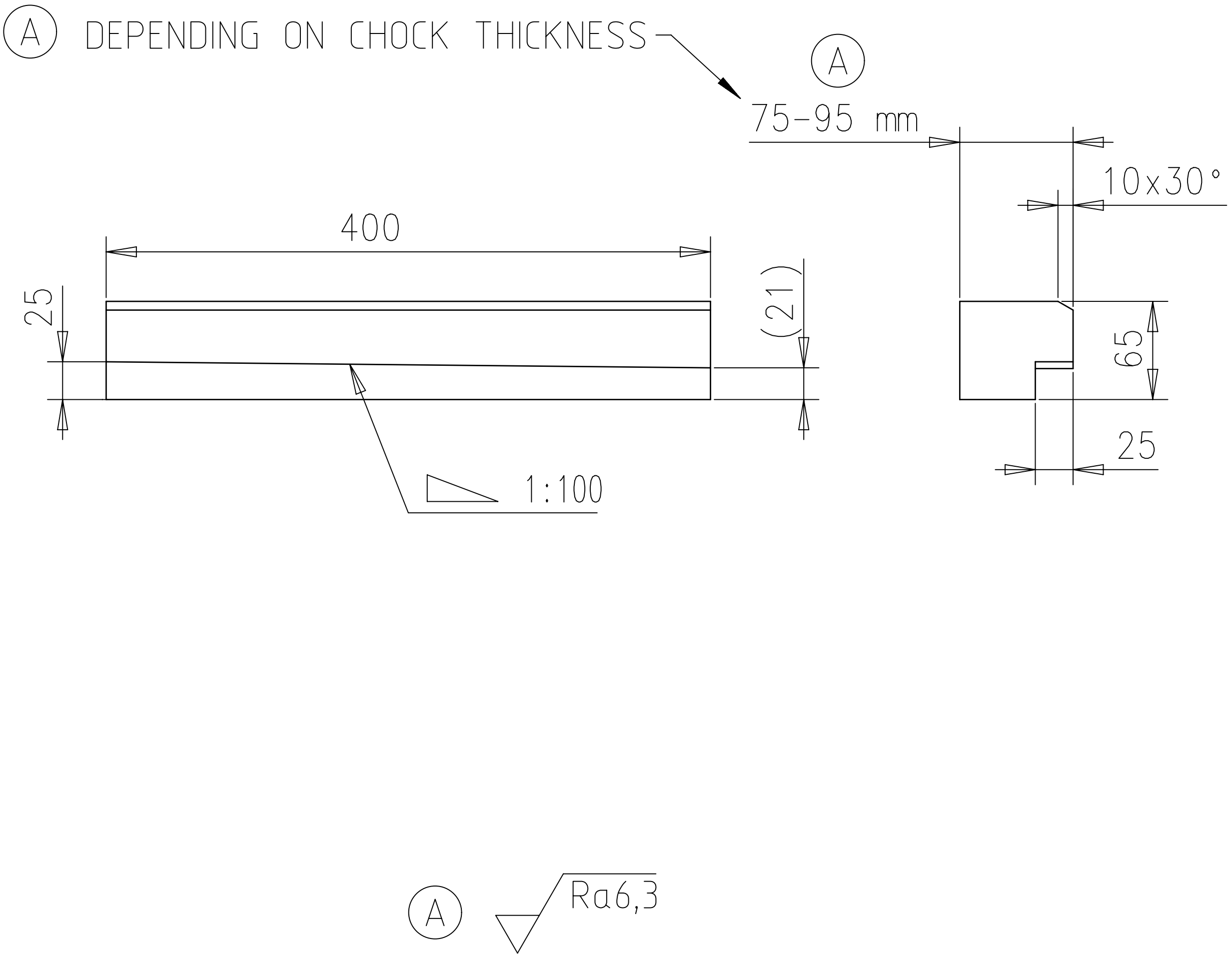
Units	mm kg	NX		Basic Material	Net Weight 24

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

Made	08.12.2015 Kashyap Patel	Scale 1:3	Size A3	Page 1/1	Material ID PAAD214952
Chkd	23.12.2015 mhu019 Hug	Design Group 9710	Drawing ID DAAD073629		Rev. A
Appd	23.12.2015 bha009 Haag				

DID - DIMENSIONAL DRAWING - Confidential

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



Free space for lic.

Q-Code	Main Drw.
XXXXX	
Standard	
ISO; JIS	

Modif.											
A	EAAD091567	21.11.2019									
	Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date

WIN GD
Winterthur Gas & Diesel

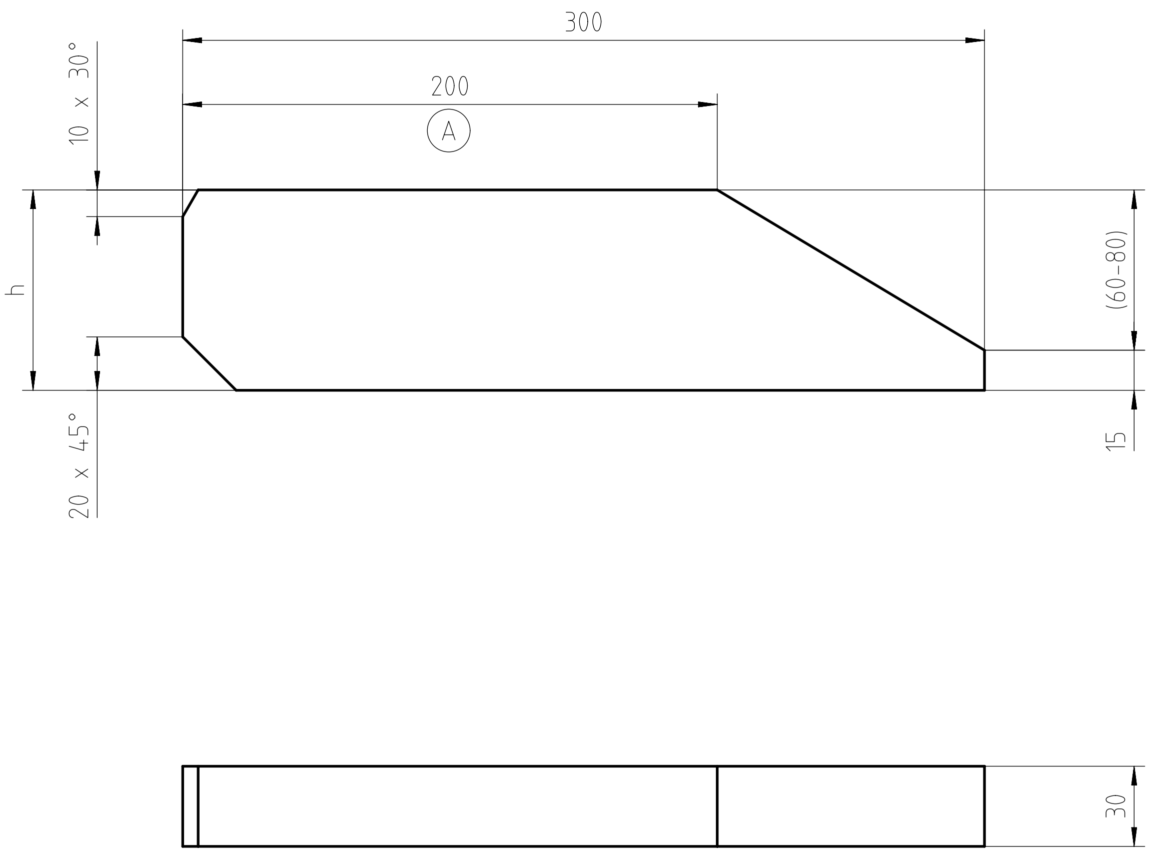
Product
W-2S

FLAT BAR
TO ENGINE SIDE STOPPER
Flachstahl

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

Approved

DID - DIMENSIONAL DRAWING - Confidential



Ra50

SHARP EDGES REMOVED

h = (75 - 95 mm)
DEPENDING ON CHOCK THICKNESS,
TO BE DETERMINED BY SHIPYARD

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	EAAD089996	22.10.2018						

WIN GD
Winterthur Gas & Diesel

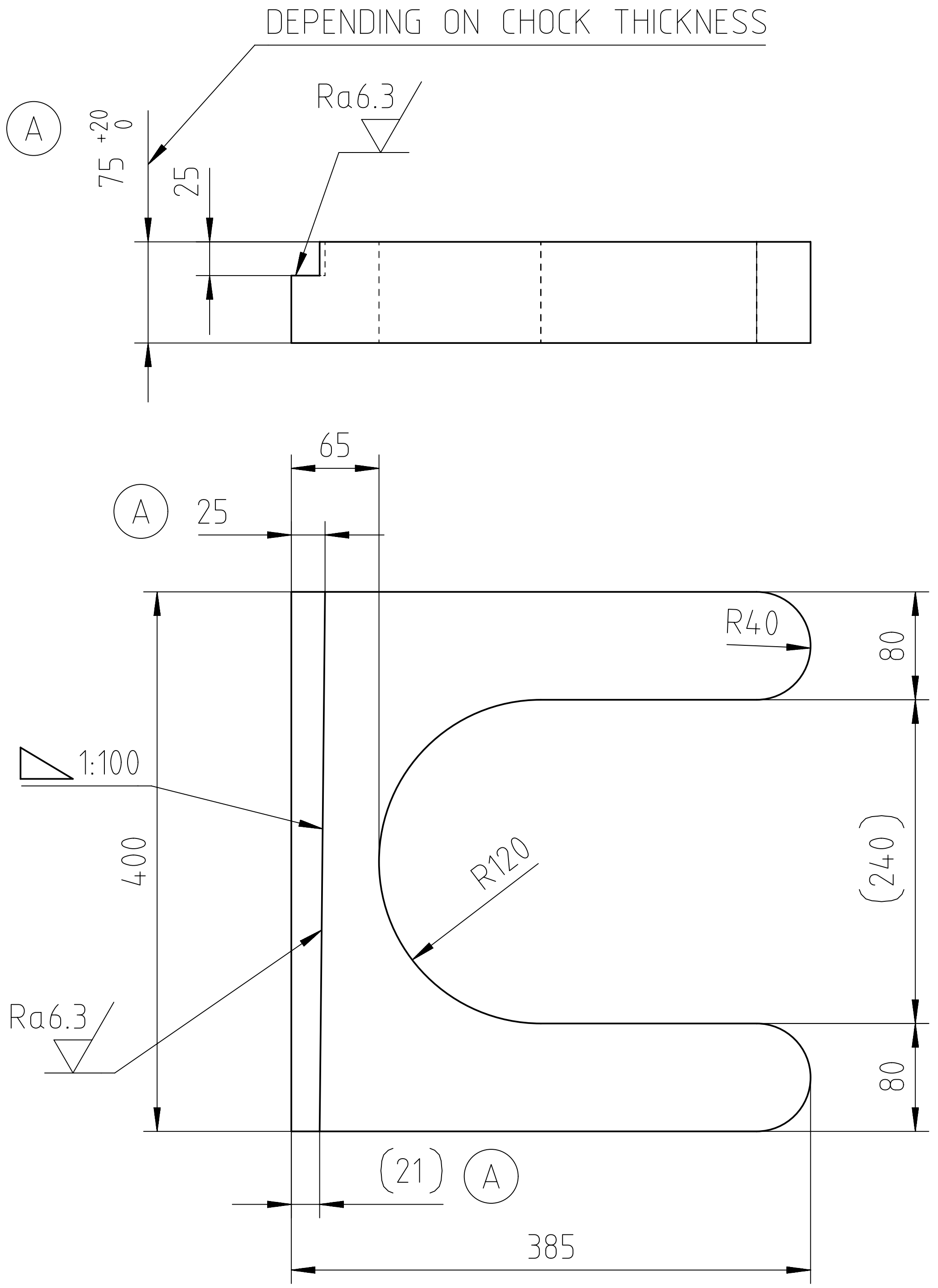
Product W-2S

FLAT BAR
TO ENGINE SIDE STOPPER
Flachstahl

Units mm kg	NX	Basic Material W-FU-235-JR	Net Weight 4,6
Made 02.07.2008 M.PRSTEC	Scale 1:2	Size A3	Page 1/1
Chkd	Design Group 9710	Material ID 107.402.024.001	
Appd 03.07.2008 MPR002 Prstec		Drawing ID 107.402.024	Rev. A

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

DID - DIMENSIONAL DRAWING - Confidential



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

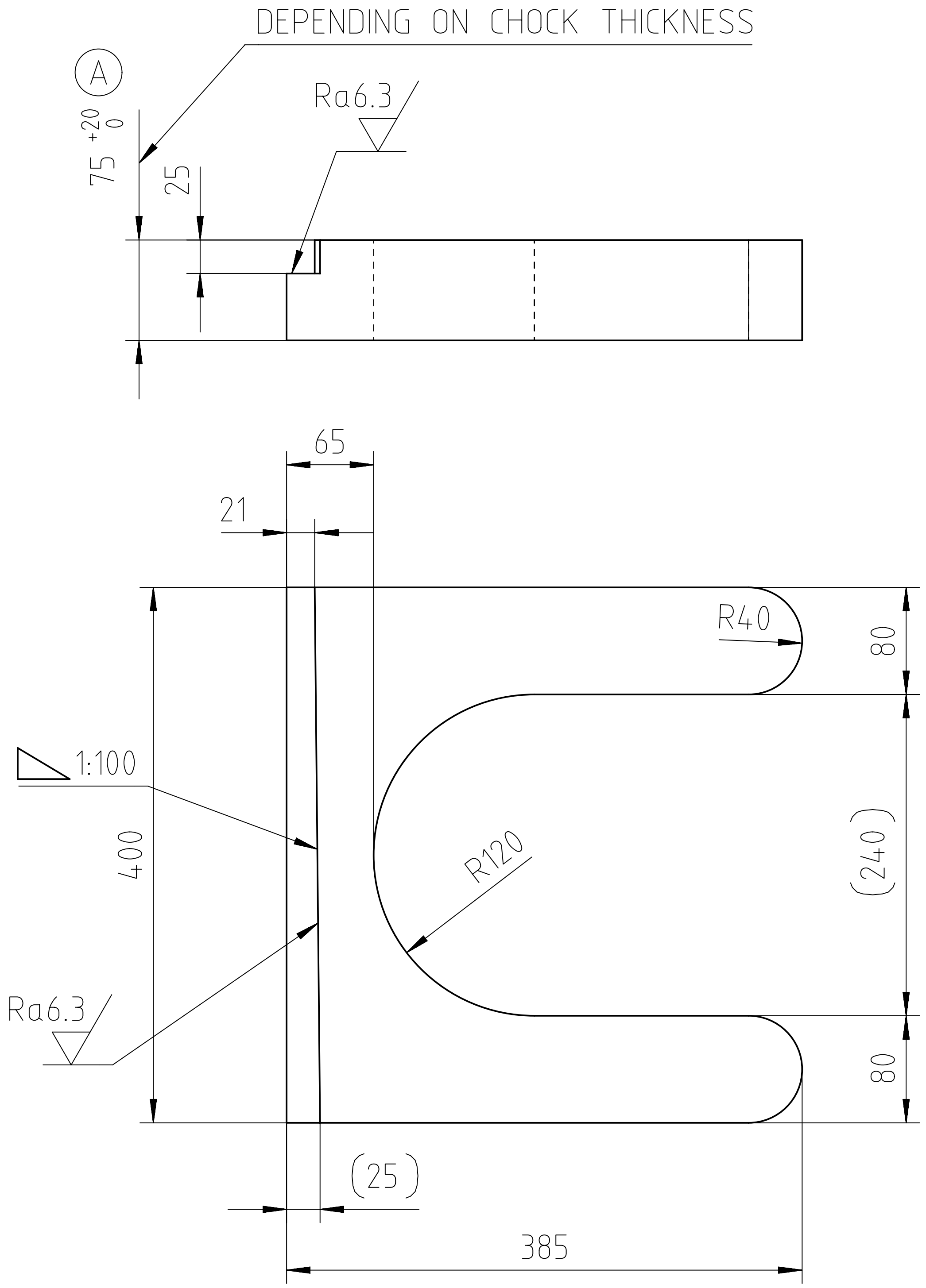
ENGINE SIDE STOPPER
FLAME CUT, FUEL SIDE
Motor-Seitenstopper
Ausgebrannt, Brennstoffseite

Units: mm kg	NX	Basic Material: W-FU-235-JR	Net Weight: 46,4
Made: 08.12.2015 Kashyap Patel	Scale: 1:5	Size: A3	Page: 1/1
Chkd: 23.12.2015 mhu019 Hug	Design Group: 9710	Material ID: PAAD214691	
Appd: 23.12.2015 bha009 Haag		Drawing ID: DAAD073549	Rev.: A

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

Approved

DID - DIMENSIONAL DRAWING - Confidential



Ra50 (Ra6.3)

Free space for lic.								Q-Code XXXXX Standard ISO; JIS	Main Drw.
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
Made	8.12.2015	Kashyap Patel	Scale 1:5	Size A3	Page 1/1	Material ID PAAD214692
Chkd	*23.12.2015*	*mhu019 Hug*	Design Group 9710	Drawing ID DAAD073550	Rev. A
Appd	*23.12.2015*	*bha009 Haag*			

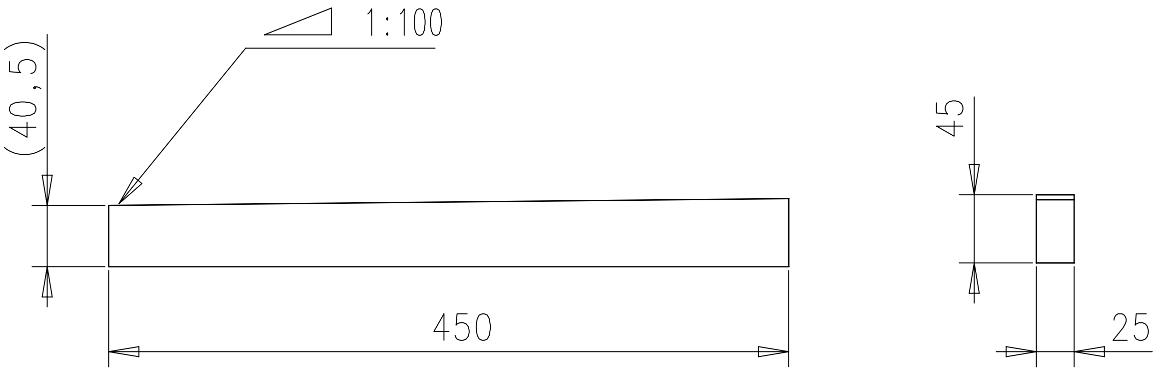
SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Approved

DID - DIMENSIONAL DRAWING - Confidential

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	Standard ISO; JIS	Main Drw.
Modif.	A	EAAD088473	17.10.2017								
		Number	Drawn date		Number	Drawn date		Number	Drawn date	Number	Drawn date

WIN GD Winterthur Gas & Diesel

Product W-2S

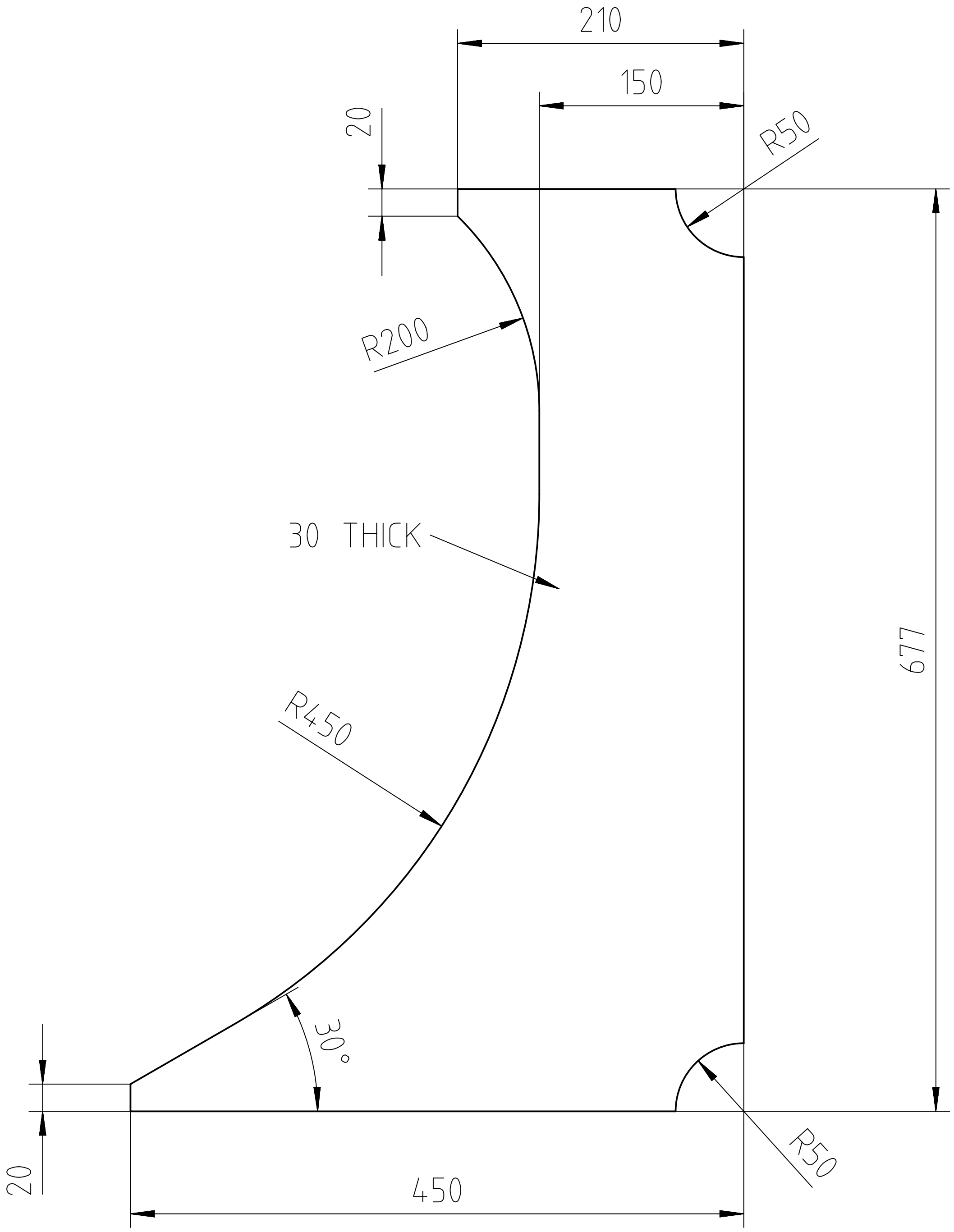
WEDGE

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
Chkd		Design Group 9710	Material ID 107.325.275.001	
Appd 31.01.2002 SNA001			Drawing ID 107.325.275	Rev. A

DID - DIMENSIONAL DRAWING - Confidential

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-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
Chkd 23.12.2015 mhu019 Hug	Design Group 9710	Material ID PAAD216050	
Appd 23.12.2015 bha009 Haag		Drawing ID DAAD074125	Rev. –

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

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
2024-05-02	PAAD273810-B PAAD287859-A PAAD214975-C	New revisions