

Q/SCI



**ACCESSORIES RANGE REPORT FOR FANS
ACCORDING TO THE EUROPEAN STANDARD EN
12101-3:2015, “SMOKE AND HEAT CONTROL
SYSTEMS. PART 3: SPECIFICATION FOR POWERED
SMOKE AND HEAT CONTROL VENTILATORS
(FANS)”**

File number: 20/21609-8-1

Sponsor:

SOLER & PALAU SISTEMAS DE VENTILACIÓN S.L.U
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Report date:

9th January 2020

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1 Objective

Assessment of valid accessories for installation in the different fan ranges from SOLER & PALAU SISTEMAS DE VENTILACIÓN S.L.U.

The assessment is carried out according the standard EN 12101-3:2015, "Smoke and heat control systems. Part 3: Specification for powered smoke and heat control ventilators (Fans)", test evidence of the accessories according to EN 12101-3 and laboratory experience.

The different accessories are listed in section 2 of this report.

The different ranges and the list of accessories for each range are listed in section 3 of this report.

The drawings of the different accessories are attached in Annex 1.

2 Accessories

The accessories concerned are the following:

Accessories	Description
ARO BRIDA TGT/THGT	Circular duct matching flange
EMB-xxxT	Bellmouth inlet
ACOPÉL F400	Circular flexible connection
CLAR	Backdraught Shutters
DEF.ASP.IFHT	Inlet guard protection grille
DEF.ASP.TJHT	Inlet guard protection grille
DEF.ASP.TGT/THGT	Inlet guard protection grille
DEF.DES.TGT/THGT	Outlet guard protection grille
PIE SOPORTE TGT/THGT	Support feet
SIL CZ	Silencers
SIL CZO	Silencers
AM-xxM / DSD	Antivibration mount
PER-CN	Over pressure louvre
PER-CR	Over pressure louvre
CVD	Grid
ACOP RECT F400	Flexible connection
INT-xx/6P-F400	On-Off Switch
BI-xx	Coupling sloping covers
JAE	Flexible coupling
JBR	Flange
JBS JBS-V	Flat roof up stand
JCA JCA N	Backdraft shutter
JCC	Coupling
JMS	Support
JPA	Adapter plate
KAD F400	Felxible connector
KBA	Flange
KBD	Support
KRJ	Grid
PAVZ	Rubber Antivibration Mounts
CTI	Outdoor cover
APC	Discharge protection guards
FD	Coupling
CHTI	Cover
INLET FLANGE	Inlet frange
OUTLET FLANGE	Outlet flange
INTZ	Proximity switches
PILOTAIR 2002	Relay box
BDEZ/DPS	Differential pressure probe
VSD CFW	Frequency Converter

Accessories	Test evidence / Assessment
ARO BRIDA TGT/THGT	Tested on range THGT F400 (12/4372-1473) and on range CVST F400 (10/100522-2227).
EMB-xxxT	Tested on range THGT F400 (12/4372-1473).
ACOPEL F400	Tested on range THGT F400 (12/4372-1473) and on range CHAT-N F400 (16/11629-1940).
CLAR	Tested on range THGT F400 (12/4372-1473) and on range CHGT F400 (17/13774-2143).
DEF.ASP.IFHT	Tested on range IFHT F400 (15/9872-2901) and on range IFHT F300 (15/9872-2900).
DEF.ASP.TJHT	Tested on range TJHU F400 (13/6351-221) and on range TJHU F300 (12/4372-1765).
DEF.ASP.TGT/THGT	Tested on range THGT F400 (12/4372-1473), on range THGT F300 (12/4372-1471) and on range HGHT F400 (10/100522-62M1).
DEF.DES.TGT/THGT	No negative influence on the operating performance of the fan.
PIE SOPORTE TGT/THGT	Tested on range THGT F400 (12/4372-1473), on range THGT F300 (12/4372-1471) and on range THGT F200 (17/13774-2142).
SIL CZ	Tested on range THGT F400 (12/4372-1473), on range TJHT F400 (08/32311849), on range TJHU F200 (12/4372-663), TJHU F300 (12/4372-1765) and on range TJHU F400 (13/6351-221).
SIL CZO	Tested on range TJHT F400 (08/32311849).
AM-xxM / DSD	Tested on range CHGT F400 (17/13774-2143) and on range CHAT-N F400 (16/11629-1940).
PER-CN	Tested on range CHAT-N F400 (16/11629-1940).
PER-CR	Tested on range CHGT F300 (14/7966-1784) and on range CHAT-N F400 (16/11629-1940).
CVD	No negative influence on the operating performance of the fan.
ACOP RECT F400	Tested on range CHGT F400 (17/13774-2143).
INT-xx/6P-F400	Tested on range THGT F400 (12/4372-1473), on range TJHU F200 (12/4372-663), TJHU F300 (12/4372-1765), on range TJHU F400 (13/6351-221), on range IFHT F300 (15/9872-2900), on range CHGT F400 (17/13774-2143) and on range HGHT F400 (10/100522-62M1).
BI-xx	No negative influence on the operating performance of the fan.
JAE	Tested on range CHTT-CTHB/CTVT-CTVB F400 (09/32300855) and on range CTVT HP F400 (16/9872-1556).
JBR	Tested on range CHTT-CTHB/CTVT-CTVB F400 (09/32300855) and on range CTVT HP F400 (16/9872-1556).
JBS JBS-V	Tested on range CHTT-CTHB/CTVT-CTVB F400 (09/32300855) and on range CTVT HP F400 (16/9872-1556).
JCA JCA N	Tested on range CHTT-CTHB/CTVT-CTVB F400 (09/32300855) and on range CTVT HP F400 (16/9872-1556).
JCC	No negative influence on the operating performance of the fan.
JMS	No negative influence on the operating performance of the fan.
JPA	Tested on range CHTT-CTHB/CTVT-CTVB F400 (09/32300855) and on range CTVT HP F400 (16/9872-1556).
KAD F400	Tested on range CHMT F400 (09/100522-2231M1) and on range CRMT F400 (09/100522-2230).
KBA	No negative influence on the operating performance of the fan.
KBD	No negative influence on the operating performance of the fan.
KRJ	No negative influence on the operating performance of the fan.
PAVZ	Tested on range BSP F400 (09/100522-2228M1).

CTI	Tested on range CHAT-N F400 (16/11629-1940).
APC	Tested on range CHAT-N F400 (16/11629-1940).
FD	No negative influence on the operating performance of the fan.
CHTI	No negative influence on the operating performance of the fan.
INLET FLANGE	No negative influence on the operating performance of the fan.
OUTLET FLANGE	No negative influence on the operating performance of the fan.
INTZ	Tested on range BSP F400 (09/100522-2228M1).
PILOTAIR 2002	No negative influence on the operating performance of the fan.
BDEZ/DPS	Tested on range BSP F400 (09/100522-2228M1).
VSD CFW *	Tested on range THGT F400 (12/4372-1473), on range THGT F300 (12/4372-1471), THGT F200 (17/13774-2142), on range TJHU F400 (13/6351-221), on range TJHU F300 (12/4372-1765), on range TJHU F200 (12/4372-663), on range IFHT F300 (15/9872-2900) and on range IFHT F400 (15/9872-2901).

* Additionally, the VSD CFW accessory must comply with the following specifications for each range:

- Tests made with a frequency converter are valid for DOL operation at the same voltage and frequency.
- When the initial assessment is performed direct on line (DOL), no further test is required for use with converter provided that:
 - any of the four filters described following is used with the converter; and
 - the power of the motor is de-rated by 20 % or by a factor that will result in the DOL or lower temperature rise

The filters for frequency converters are:

- VSD + sinusoidal filter. Voltage drop 10%, losses to be added 0%.
- Du/dt filter. Voltage drop negligible, losses to be added 0,1 to 1,5 % due to filter + 8-14 % due to VSD (PWM).
- Motor termination unit. Voltage drop negligible, losses to be added 0,1 to 1,5 % due to filter + 8-14 % due to VSD (PWM).
- Output reactor. Voltage drop negligible, losses to be added 0,1 to 1,5 % + 8-14 % due to VSD (PWM).

3 Relation between ranges and accessories

The following ranges could be installed with the following accessories:

Range	Accessories
THGT F400	ARO BRIDA TGT/THGT
	EMB-xxxT
	ACOPEL F400
	CLAR
	DEF.ASP.TGT/THGT
	DEF.DES.TGT/THGT
	PIE SOPORTE TGT/THGT
	SIL CZ
	SIL CZO
	AM-xxM / DSD
	PER-CN
	PER-CR
	INT-xx/6P-F400
	VSD CFW
	ARO BRIDA TGT/THGT
THGT/2 F400	EMB-xxxT
	ACOPEL F400
	CLAR
	DEF.ASP.TGT/THGT
	DEF.DES.TGT/THGT
	PIE SOPORTE TGT/THGT
	SIL CZ
	SIL CZO
	AM-xxM / DSD
	PER-CN
	PER-CR
	INT-xx/6P-F400
	VSD CFW
	ARO BRIDA TGT/THGT
	EMB-xxxT
THGT F300	ACOPEL F400
	CLAR
	DEF.ASP.TGT/THGT
	DEF.DES.TGT/THGT
	PIE SOPORTE TGT/THGT
	SIL CZ
	SIL CZO
	AM-xxM / DSD
	PER-CN
	PER-CR
	INT-xx/6P-F400
	VSD CFW
	ARO BRIDA TGT/THGT
	EMB-xxxT
THGT F200	ACOPEL F400

	CLAR
	DEF.ASP.TGT/THGT
	DEF.DES.TGT/THGT
	PIE SOPORTE TGT/THGT
	SIL CZ
	SIL CZO
	AM-xxM / DSD
	PER-CN
	PER-CR
	INT-xx/6P-F400
	VSD CFW
TJHT F400	DEF.ASP.TJHT
	SIL CZ
	SIL CZO
	INT-xx/6P-F400
	VSD CFW
TJHT F300	DEF.ASP.TJHT
	SIL CZ
	SIL CZO
	INT-xx/6P-F400
	VSD CFW
TJHT F200	DEF.ASP.TJHT
	SIL CZ
	SIL CZO
	INT-xx/6P-F400
	VSD CFW
TJHU F400	DEF.ASP.TJHT
	SIL CZ
	SIL CZO
	INT-xx/6P-F400
	VSD CFW
TJHU F300	DEF.ASP.TJHT
	SIL CZ
	SIL CZO
	INT-xx/6P-F400
	VSD CFW
TJHU F200	DEF.ASP.TJHT
	SIL CZ
	SIL CZO
	INT-xx/6P-F400
	VSD CFW
IFHT F400	DEF.ASP.IFHT
	INT-xx/6P-F400
	VSD CFW
IFHT F300	DEF.ASP.IFHT
	INT-xx/6P-F400
	VSD CFW
CHGT F300	ARO BRIDA TGT/THGT
	ACOPEL F400
	CLAR

	AM-xxM / DSD
	PER-CN
	PER-CR
	CVD
	ACOP RECT F400
	INT-xx/6P-F400
	VSD CFW
CHGT F400	CLAR
	AM-xxM / DSD
	PER-CN
	PER-CR
	CVD
	ACOP RECT F400
	INT-xx/6P-F400
	VSD CFW
CTHT-CTHB / CTVT- CTVB F400	BI-xx
	JAE
	JBR
	JBS JBS-V
	JCA JCA N
	JCC
	JMS
	JPA
CTVT HP F400	BI-xx
	JAE
	JBR
	JBS JBS-V
	JCA JCA N
	JCC
	JMS
	JPA
CTVT HP F400	BI-xx
	JAE
	JBR
	JBS JBS-V
	JCA JCA N
	JCC
	JMS
	JPA
HGHT F300	ARO BRIDA TGT/THGT
	EMB-xxxT
	ACOPEL F400
	DEF.ASP.TGT/THGT
	SIL CZ
	SIL CZO
	INT-xx/6P-F400
	JBS JBS-V
HGHT F400	ARO BRIDA TGT/THGT
	EMB-xxxT
	ACOPEL F400

	DEF.ASP.TGT/THGT
	SIL CZ
	SIL CZO
	INT-xx/6P-F400
	JBS JBS-V
CVHN F400	PER-CN
	PER-CR
	ACOP RECT F400
	PAVZ
	CVD
	CHTI
CVHT F400	PER-CN
	PER-CR
	ACOP RECT F400
	PAVZ
	CVD
	CHTI
CVST F400	ARO BRIDA TGT/THGT
	PER-CN
	PER-CR
	CTI
CRMTC F400	PER-CN
	PER-CR
CHMTC F400	PER-CN
	PER-CR
CHAT-N F400	ACOPEL F400
	AM-xxM / DSD
	PER-CN
	PER-CR
	CTI
	APC
CHVT-CHVB F400	ACOPEL F400
	AM-xxM / DSD
	PER-CN
	PER-CR
	ACOP RECT F400
	CTI
	APC
	FD
CHXT F400	ACOPEL F400
	AM-xxM / DSD
	PER-CN
	PER-CR
	ACOP RECT F400
	CTI
	APC
	FD
CHMT F400	ACOPEL F400
	KAD F400
	KBA

	KBD
	KRJ
CRMT F400	ACOPEL F400
	KAD F400
	KBA
	KBD
	KRJ
	ACOPEL F400
BSP F400	PAVZ
	INLET FLANGE
	OUTLET FLANGE
	INTZ
	PILOTAIR 2002
	BDEZ/DPS
CRRT-TR F400	ACOPEL F400
	PAVZ
	INLET FLANGE
	OUTLET FLANGE
	INTZ
	PILOTAIR 2002
	BDEZ/DPS

The ranges of fans mentioned together with each of the accessories allowed for each range will maintain the performance obtained and mentioned in their corresponding range report according to the standard in 12101-3: 2015, Smoke and heat control systems. Part 3: Specification for powered smoke and heat control ventilators (Fans)".

Fire Resistance Testing Technician
LGAI Technological Center, S.A.

Fire Laboratory Responsible
LGAI Technological Center, S.A.

The results of the tests carried out refer only and exclusively to the sample, and in the moment and under the conditions indicated herein.
LGAI is not responsible for the information supplied by the petitioner.

Service Quality Guarantee

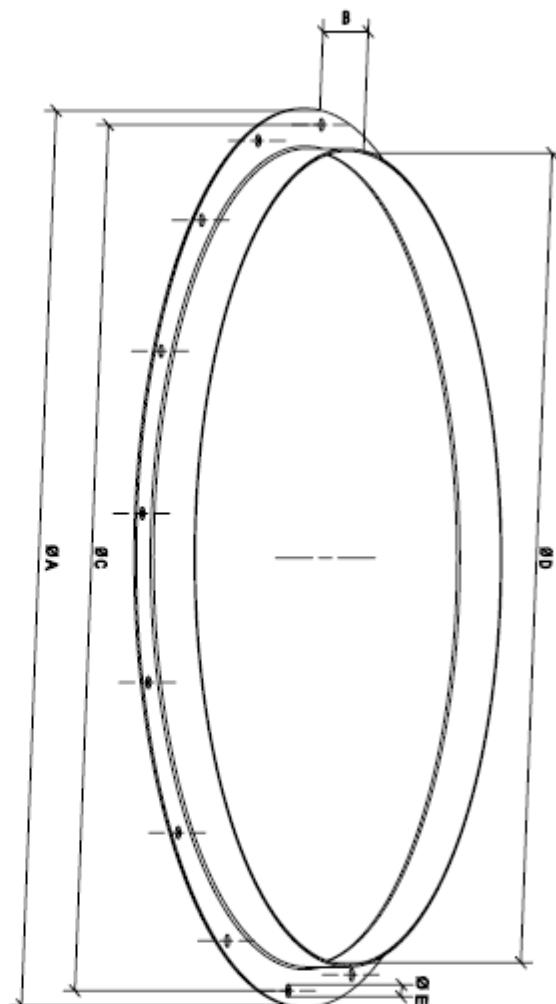
Applus+, guarantees that this task has been carried out following the exigencies of our Quality and Sustainability System, complying with the contractual conditions and legal regulation.

Within the framework of our improvement programme, we appreciate any comment you may deem appropriate, addressing them to the responsible who signs this document or to the Quality Director of Applus+, to the e-mail address: satisfaccion.cliente@applus.com

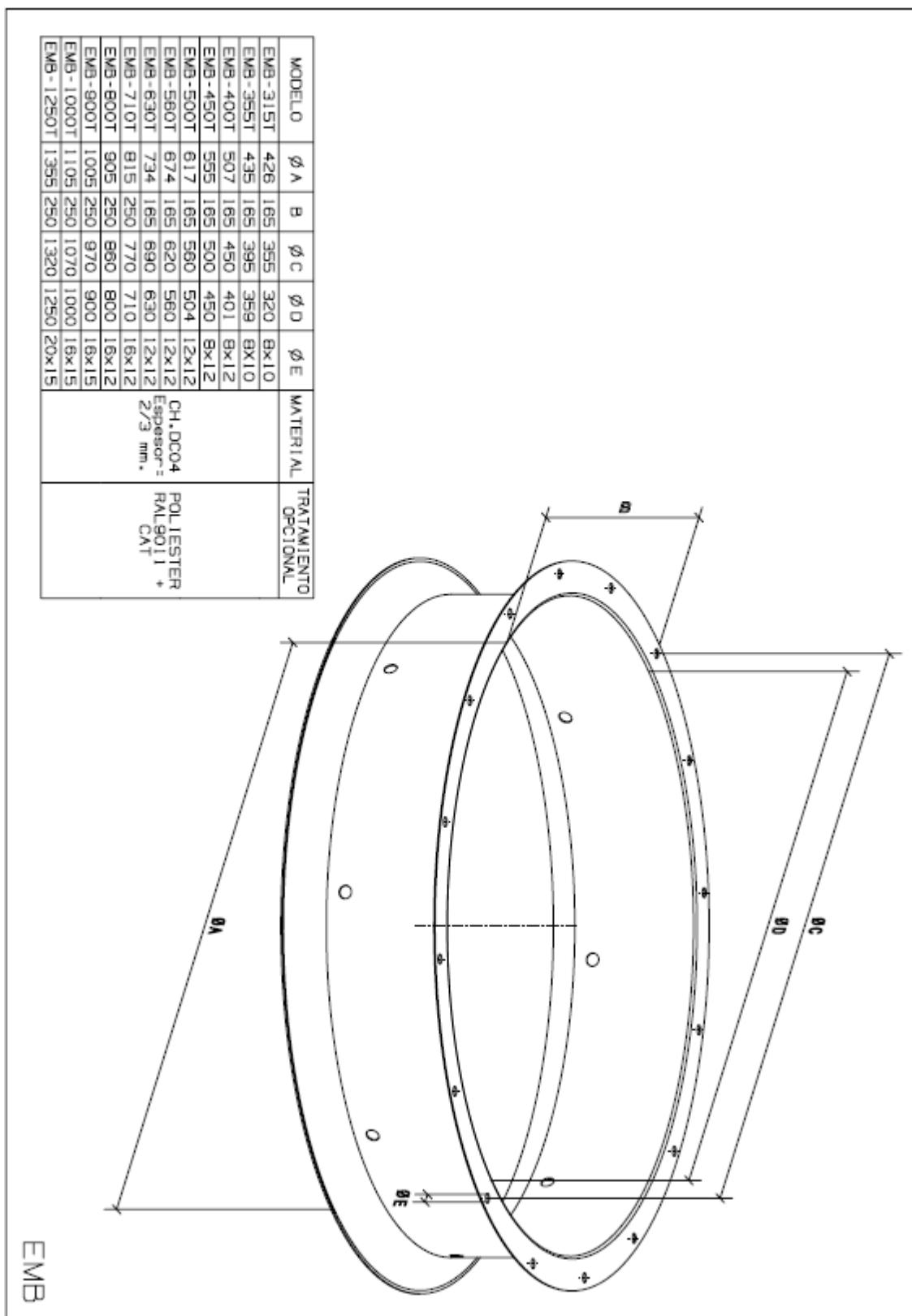
Annex 1: Accessories drawings

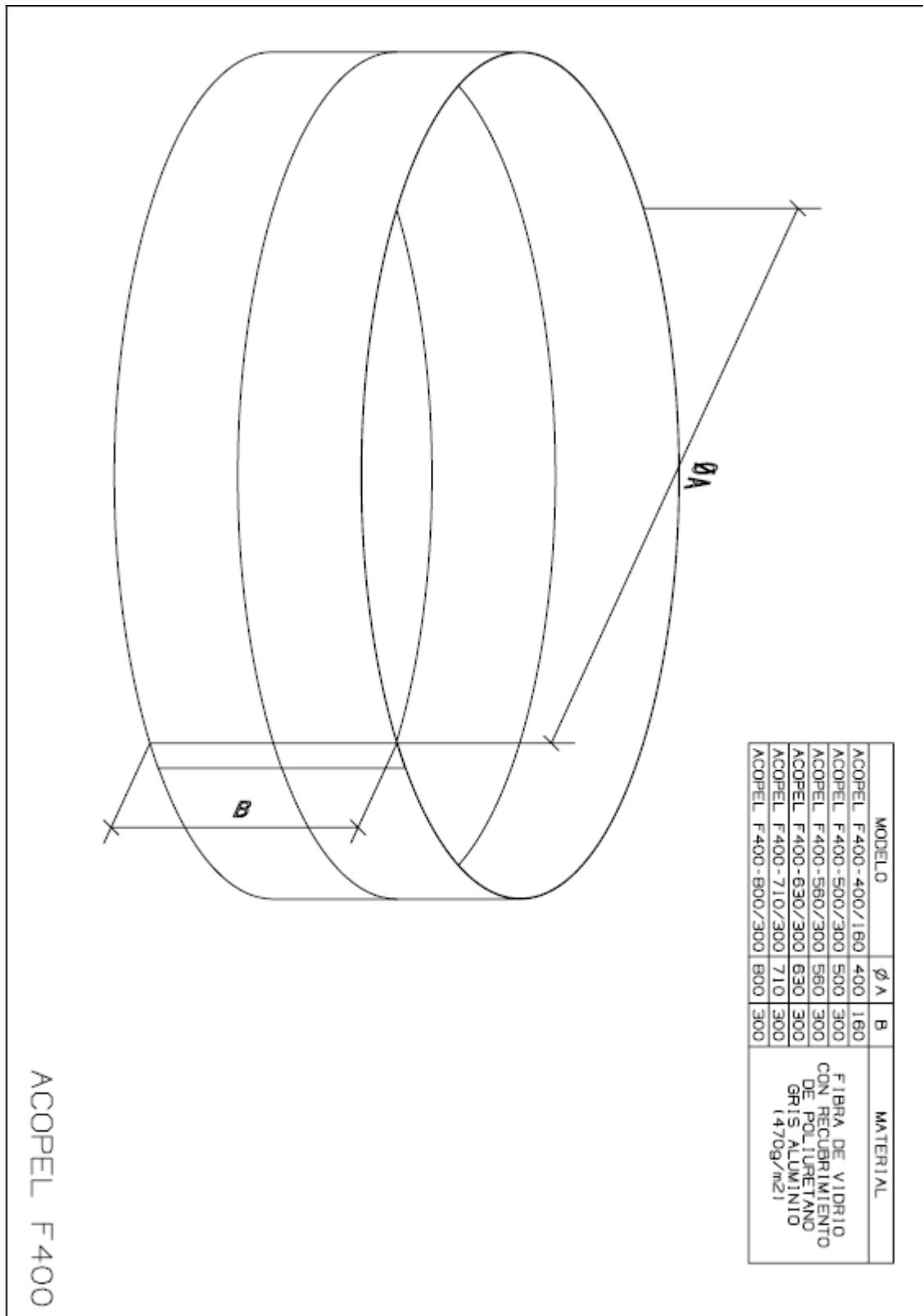
ARO BRIDA TGT/THGT

MODELO	$\varnothing A$	B	$\varnothing C$	$\varnothing D$	$\varnothing E$	NUM. DE AGUJ.	MATERIAL	TRATAMIENTO OPCIONAL
ARO BRIDA TGT/THGT-400	487	63	450	400	12	8		
ARO BRIDA TGT/THGT-450	537	63	500	450	12	8		
ARO BRIDA TGT/THGT-500	595	69	560	500	12	12		
ARO BRIDA TGT/THGT 580	655	69	620	560	12	12	CH. DC05 / INOX304 / INOX316	GALVANIZADO /PINTURA EPÓXICA
ARO BRIDA TGT/THGT-630	725	69	690	630	12	12		
ARO BRIDA TGT/THGT-710	806	69	770	710	12	16		
ARO BRIDA TGT/THGT-800	896	69	860	800	12	16		
ARO BRIDA TGT/THGT-900	1006	100	970	900	12	16		
ARO BRIDA TGT/THGT-1000	1105	85	1070	1000	15	16		
ARO BRIDA TGT/THGT-1250	1355	65	1320	1250	15	20		

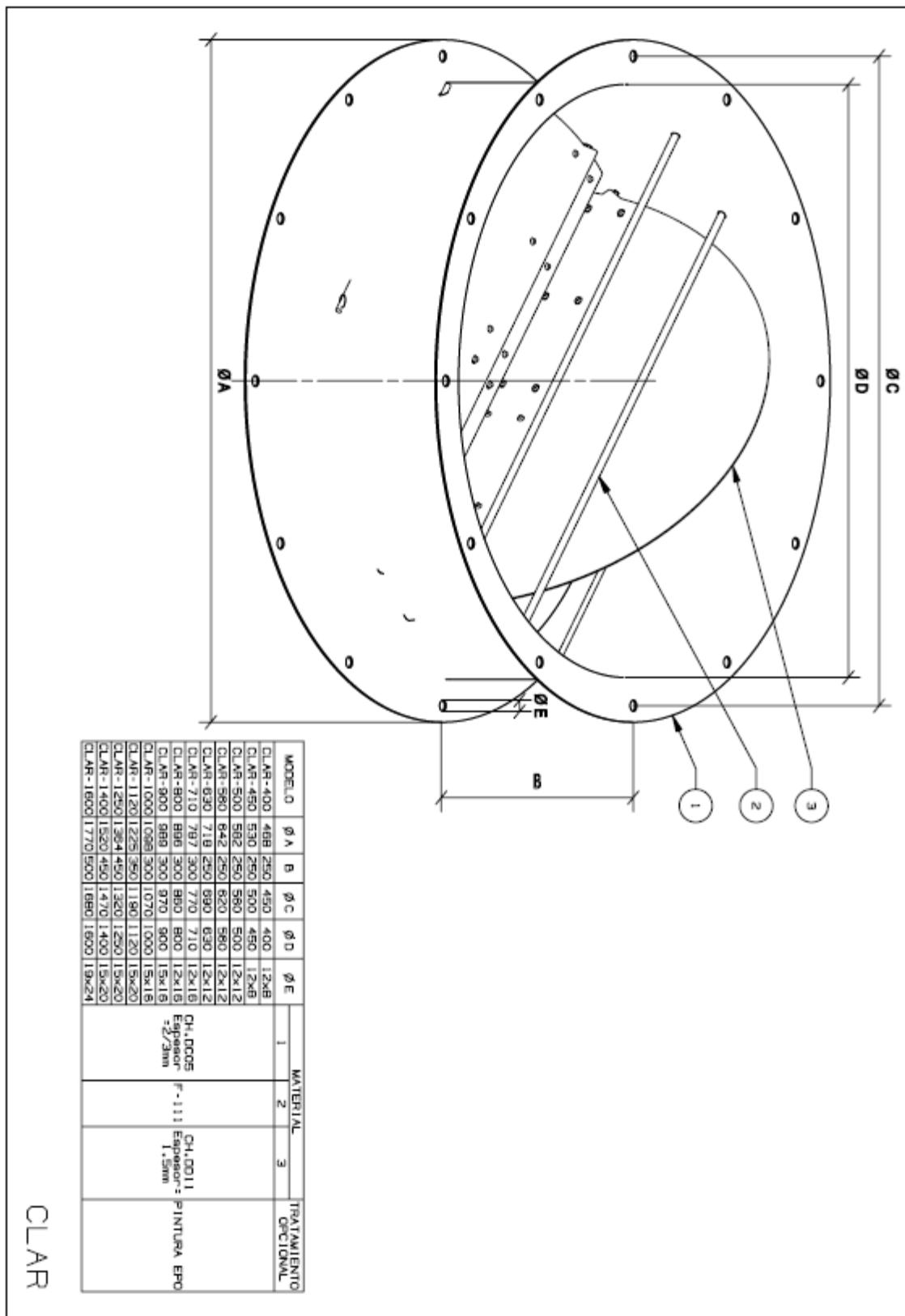


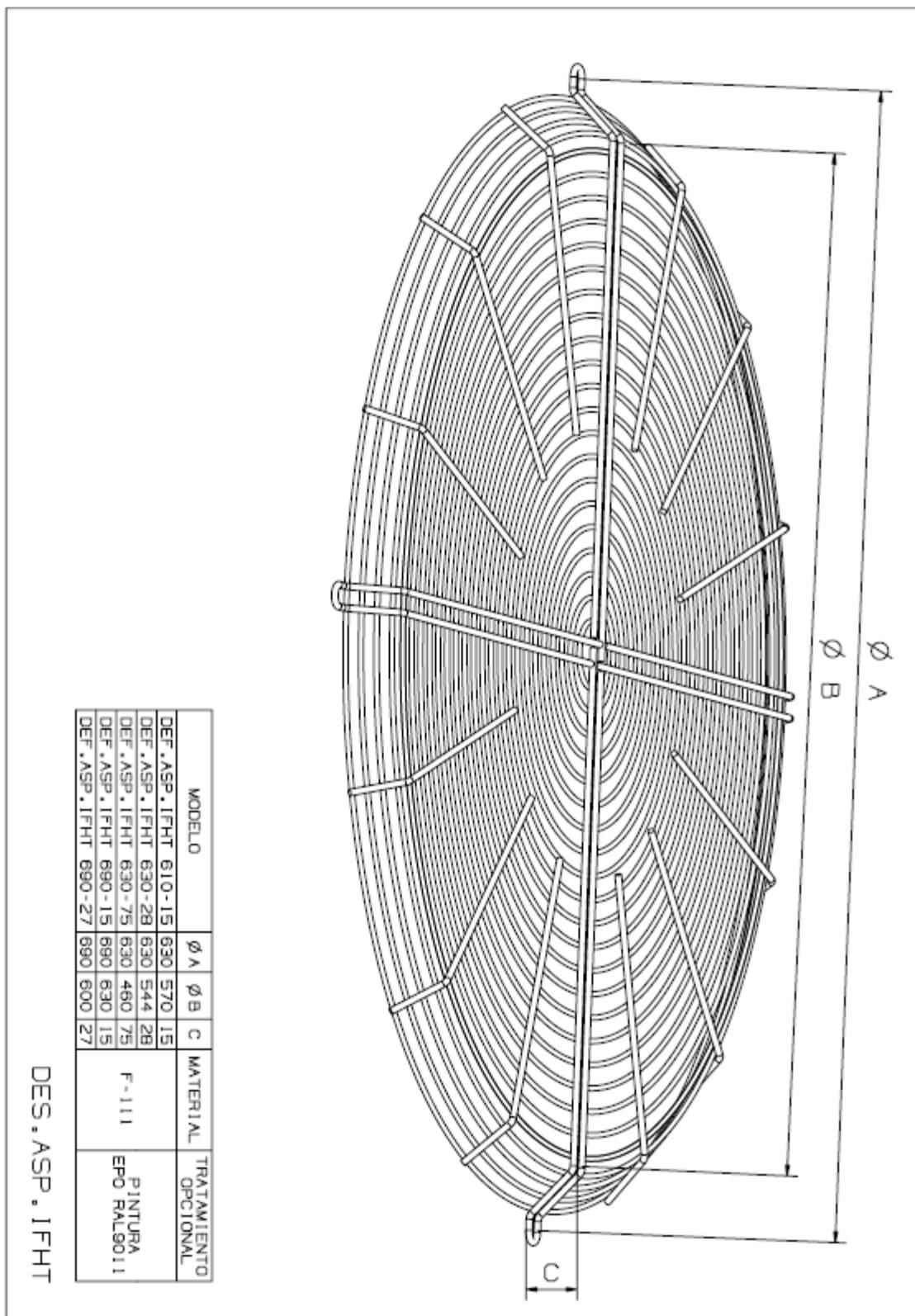
ARO BRIDA TGT/THGT

EMB-xxxT


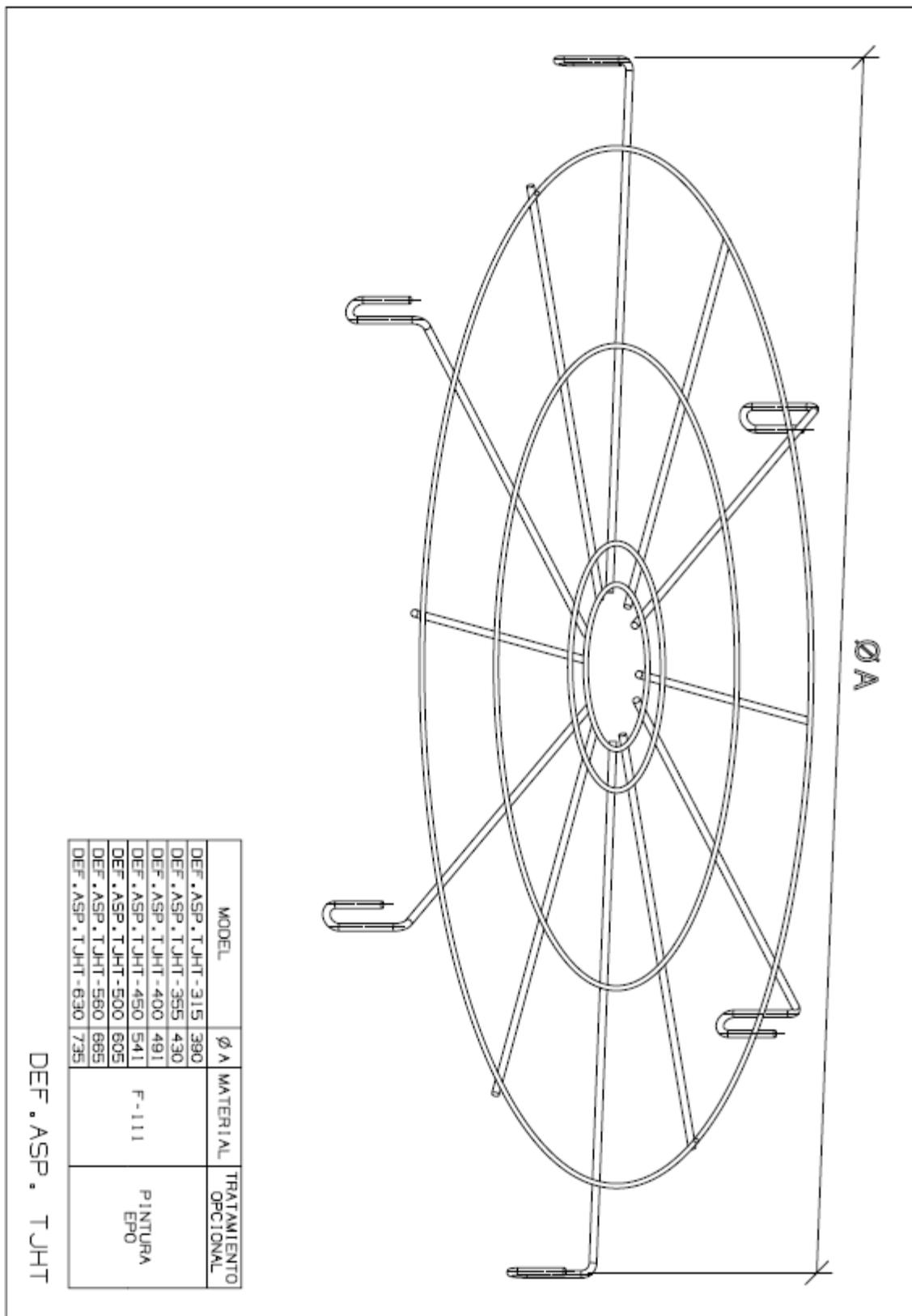
ACOPEL F400

CLAR

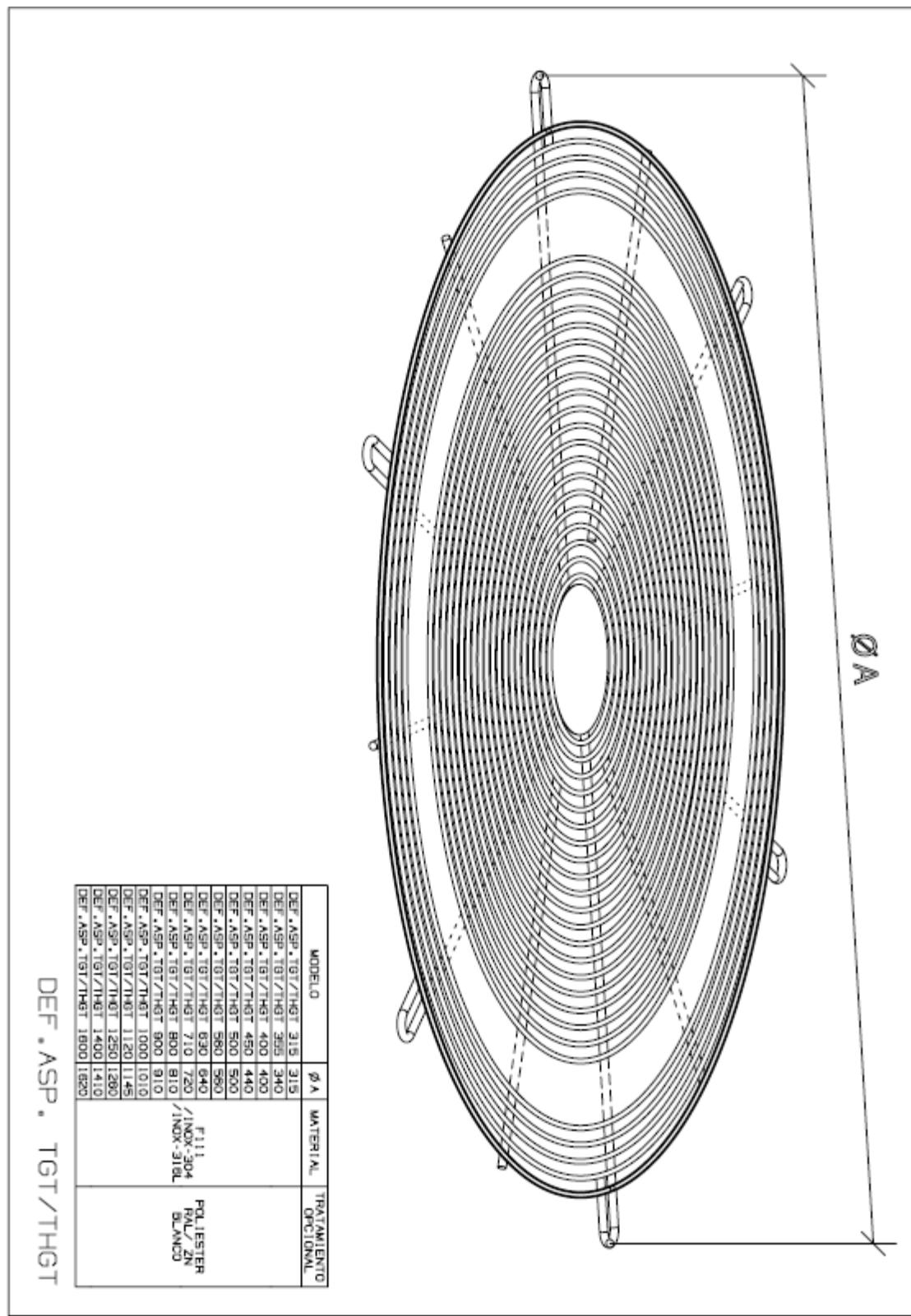


DEF.ASP.IFHT

DEF.ASP.TJHT



DEF.ASP.TGT/THGT



DEF.DES.TGT/THGT

The technical drawing shows a fan with a circular frame. Dimension A is the diameter of the frame, and dimension B is the width of the fan's body.

MODELO	$\varnothing A$	B	MATERIAL	TRATAMIENTO OPCIONAL
DEF . DESCARGA TGT/THGT 400	465	170		
DEF . DESCARGA TGT/THGT 450	515	235		
DEF . DESCARGA TGT/THGT 500	560	235		
DEF . DESCARGA TGT/THGT 560	620	295		
DEF . DESCARGA TGT/THGT 630	690	295		
DEF . DESCARGA TGT/THGT 710	770	295		
DEF . DESCARGA TGT/THGT 800	860	295	F-111/ INOX-304/ INOX-316L	POLIESTER RAL/ ZN BLANCO
DEF . DESCARGA TGT/THGT 900	970	335		
DEF . DESCARGA TGT/THGT 1000	1070	335		
DEF . DESCARGA TGT/THGT 1120	1190	455		
DEF . DESCARGA TGT/THGT 1250	1320	465		
DEF . DESCARGA TGT/THGT 1400	1470	530		
DEF . DESCARGA TGT/THGT 1600	1680	530		

DEF . DES . TGT/THGT

PIE SOPORTE TGT/THGT

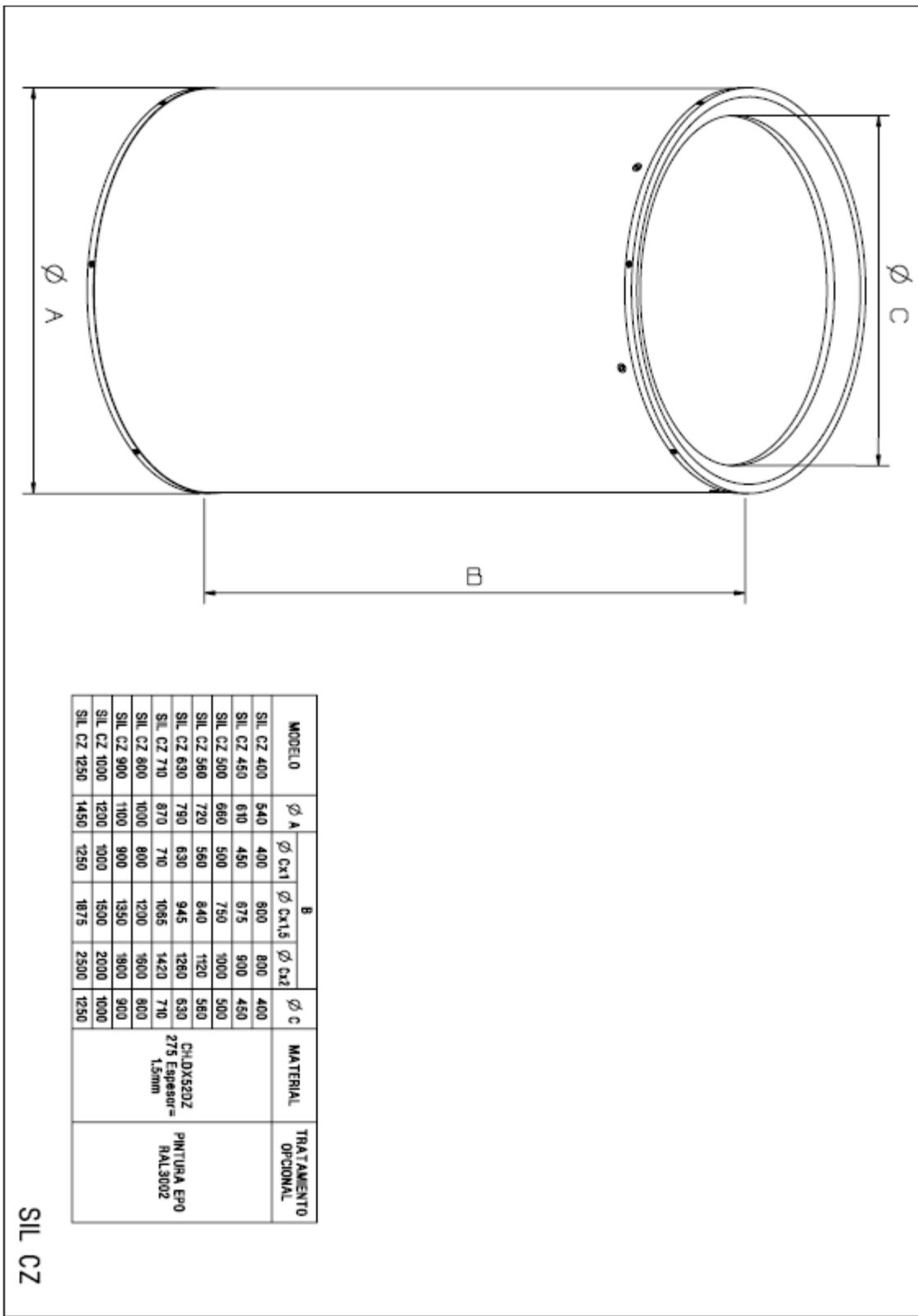
The technical drawing illustrates a rectangular support plate with rounded corners. Dimension A is the width, B is the height, C is the thickness, R is the radius of the rounded corners, and O indicates the center of the rounded corners.

MODELO	A	B	C	R	MATERIAL	TRATAMIENTO OPCIONAL
PIE SOP-250	232	115	24	130		
PIE SOP-315	352	172	24	167		
PIE SOP-355	389	188	24	187		
PIE SOP-400	446	208	24	213		
PIE SOP-450	492	236	24	238		
PIE SOP-500	425	135	24	268	CH.DC03/	
PIE SOP-560	475	155	30	298	CH.0011/	
PIE SOP-630	520	175	30	333	INOX-304/	
PIE SOP-710	560	135	45	368	INOX-316	
PIE SOP-800	600	155	50	413	EPO /	
PIE SOP-900	950	300	60	470	GALVANIZADO	
PIE SOP-1000	1020	300	60	520		
PIE SOP-1120	11050	260	60	573		
PIE SOP-1250	1100	280	60	645		
PIE SOP-1400	1300	310	100	719		
PIE SOP-1600	1720	450	100	821		

PIE SOPORTE TGT/THGT

SIL

CZ

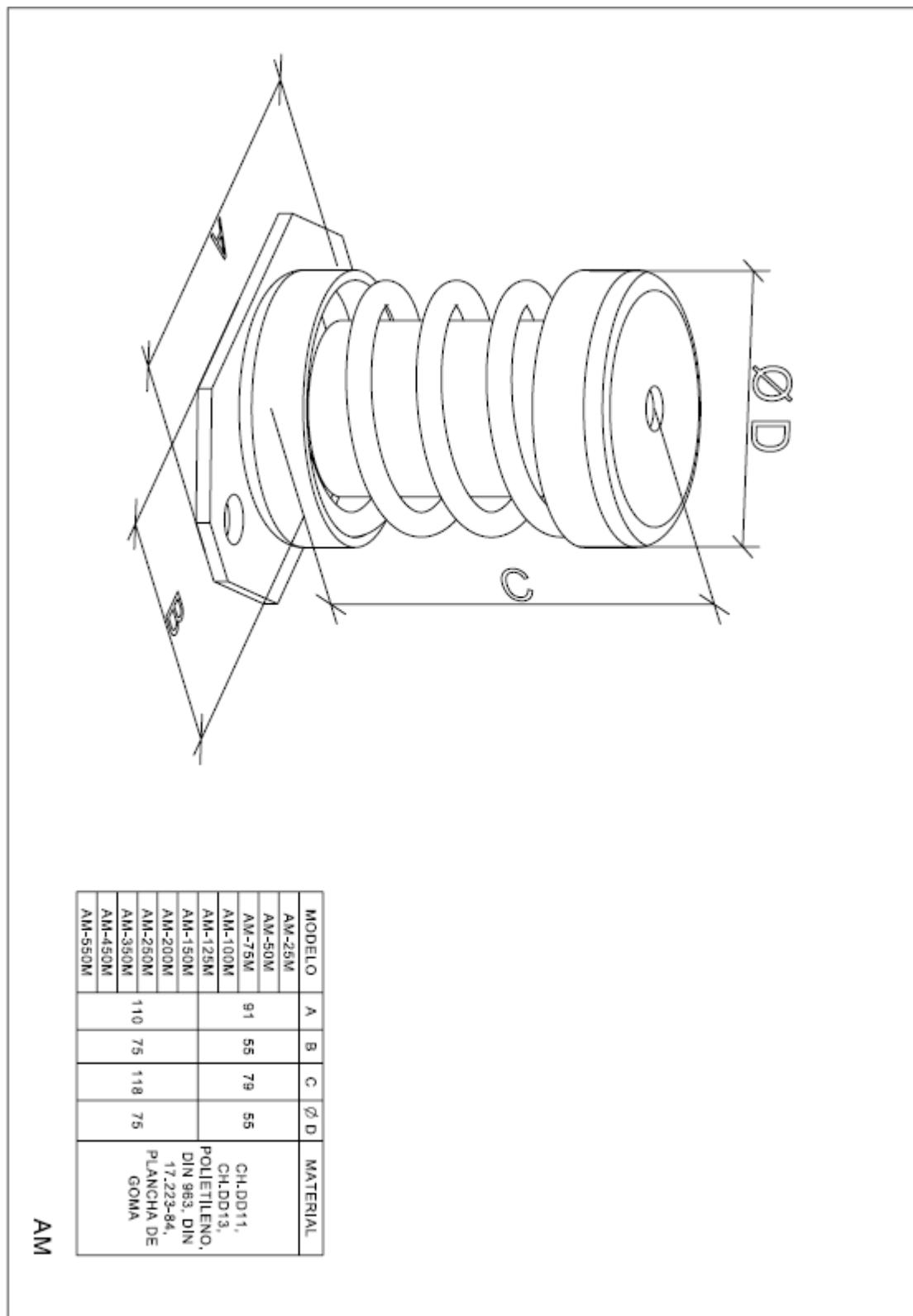


SIL CZO

The technical drawing illustrates a flange assembly. It features an outer circle with diameter ϕA . Inside it is a smaller circle with diameter ϕD . Between these two circles are two concentric arcs with diameters $\phi CX1$ and $\phi CX2$, where $CX1 < CX2$. A horizontal dimension line below the inner circle indicates a width of \square .

MODELO	ϕA	$\phi CX1$	$\phi CX1.5$	$\phi CX2$	ϕC	ϕD	MATERIAL	TRATAMENTO OPCIONAL
SIL CZ 400	540	400	600	800	400	200		
SIL CZ 450	610	450	675	900	450	250		
SIL CZ 500	660	500	750	1000	500	250		
SIL CZ 560	720	560	840	1120	560	300		
SIL CZ 630	790	630	945	1260	630	300	CHDK520Z 275 Espesor= 1,5mm	
SIL CZ 710	870	710	1065	1420	710	380	PINTURA EPO RAL3002	
SIL CZ 800	1000	800	1200	1600	800	380		
SIL CZ 900	1100	900	1350	1800	900	380		
SIL CZ 1000	1200	1000	1500	2000	1000	650		
SIL CZ 1250	1450	1250	1675	2500	1250	650		

SIL CZO

AM-xxM / DSD

PER-CN / PER-CR

The technical drawing illustrates a rectangular panel with a ribbed front surface and a smooth back surface. The height of the panel is indicated by dimension A, and the width is indicated by dimension B. The panel is shown from a three-quarter perspective, highlighting its thickness and the pattern of the ribs.

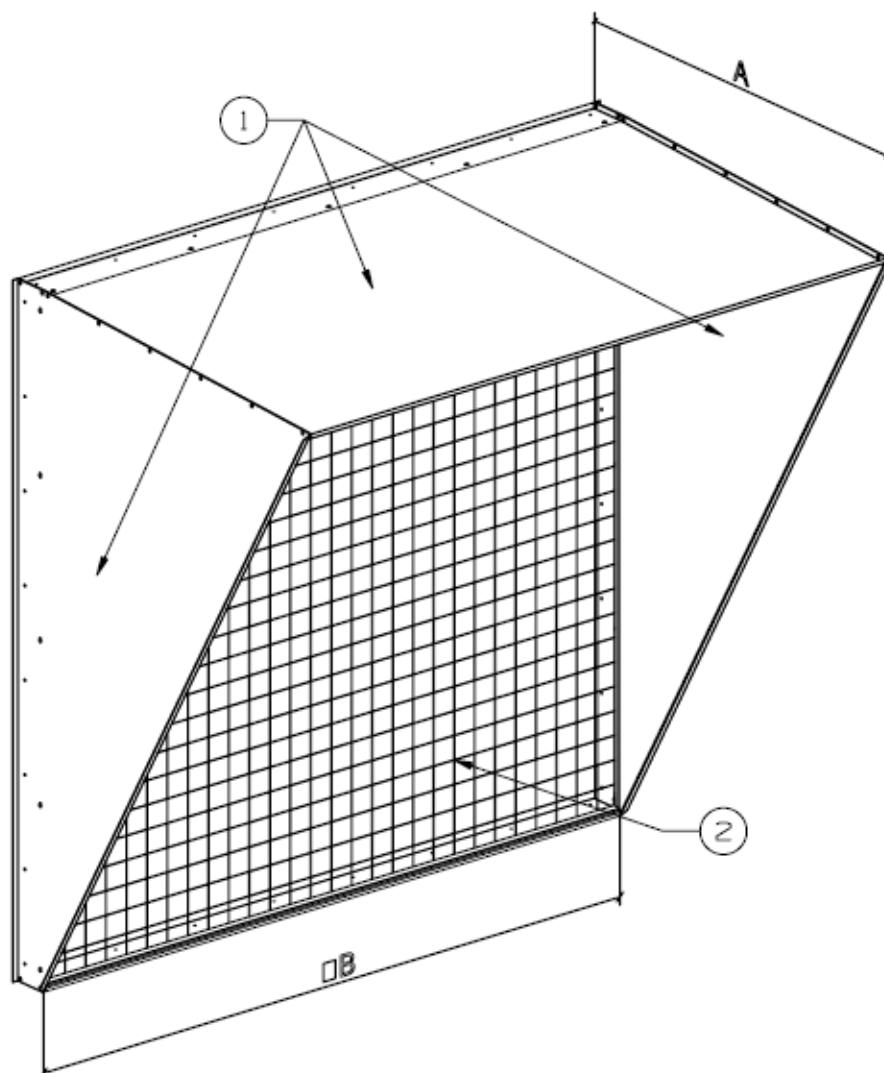
MODELO	A		B		MATERIAL				TRATAMIENTO OPCIONAL
	CR	CN	MIN	MAX	1	2	-		
PER-250	386	333							
PER-355	450	398							
PER-400	503	451	40	146	104	CH.DC03/ CH.DC04	CH.AL 1050	MALLA ELECTROSM	
PER-450	556	504					DUR	ALTADA DE	
PER-500	610	557	80			Espesor = 1/2mm	O,6mm	HIERRO	
PER-630	700							CINCADO	
PER-710	800		50	200	187				
PER-800	900								
PER-1000	1100								

PER CR/CN

Notes: CH.DC03/CH.DC04 Espesor = 1/2mm O,6mm

CVD

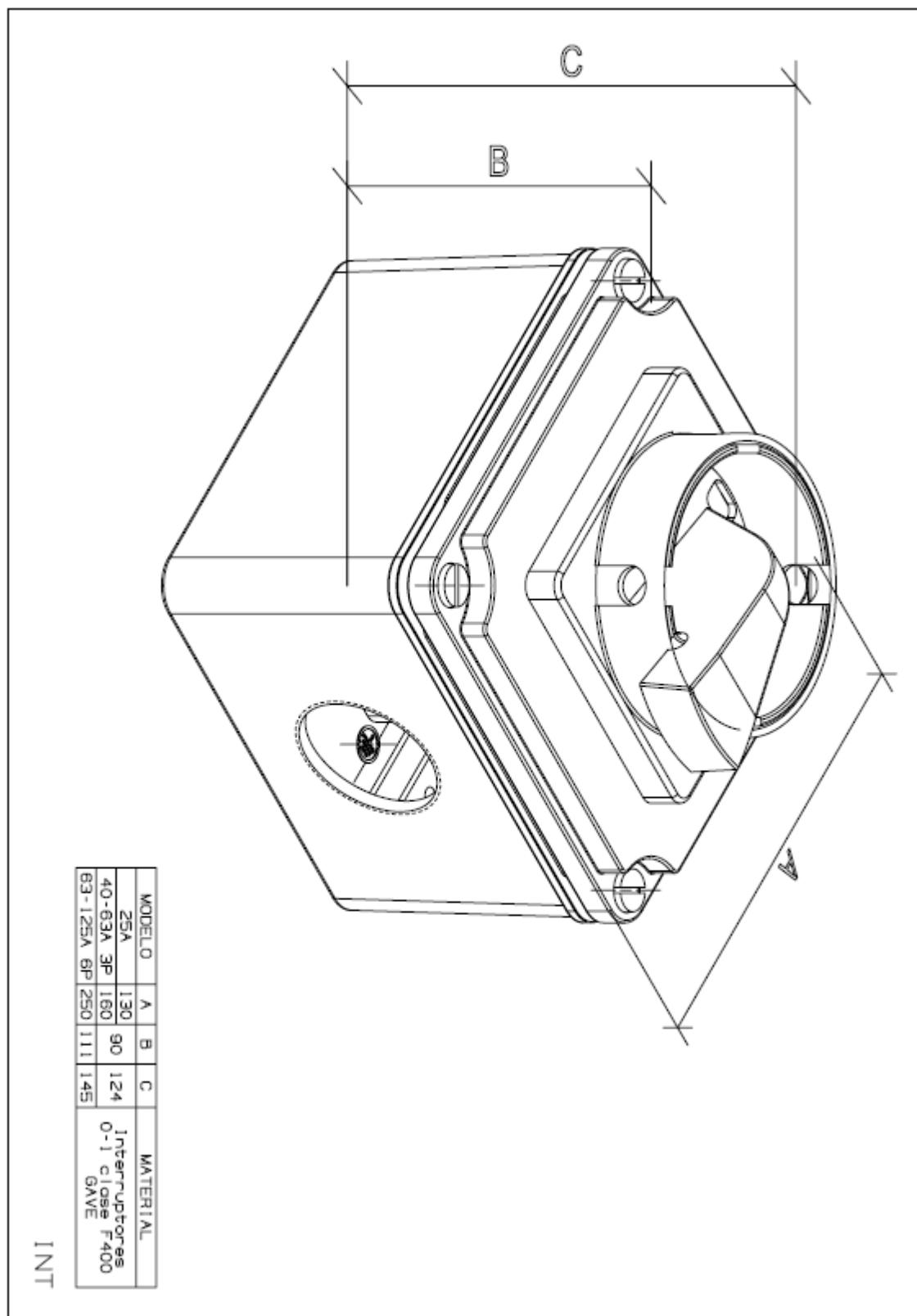
DESCRIPCION	A	B	MATERIAL	
			1	2
CVD/400	313,5	424		
CVD/450	341,5	474		
CVD/500	369,5	524		
CVD/560	403,5	584	CHDC05 / CH.DX52DZ 275 MA / CH. INOX 304 / CH. INOX 316 L Espesor: 1,2mm	MALLA ELECTROESMALTADA DE HIERRO CINCADO HCT 1.431
CVD/630	422,5	654		
CVD/710	503,8	751		
CVD/800	580,2	851,5		
CVD/900	616,2	951,5		
CVD/1000	675	1056,5		
CVD/1250	798,3	1276,5		

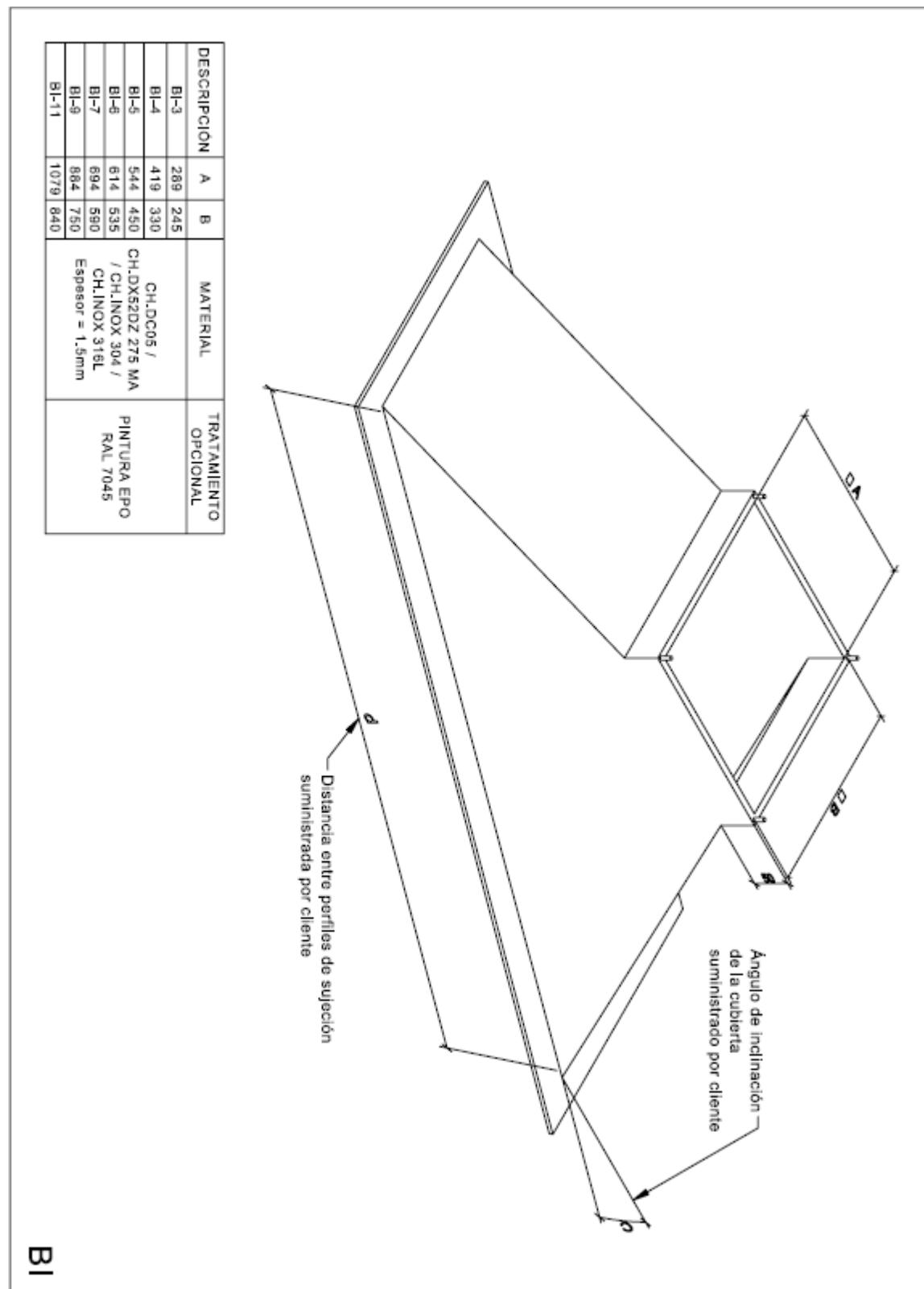


CVD

ACOP RECT F400

REF/BLD.	A	B	C	MATERIAL
ACOP RECT F400-3000	469	180		
ACOP RECT F400-4000	569	218,5		
ACOP RECT F400-5000	703	221,2		
ACOP RECT F400-6000	301,2	301,2		
ACOP RECT F400 800 IMP	360	360,5		
ACOP RECT F400 1000 IMP	402,5	402,5		
ACOP RECT F400 1200 IMP	448,5	552,5		
ACOP RECT F400 1500 IMP	544,5	614,5		
ACOP RECT F400 1800 IMP	687,5	692,5		
ACOP RECT F400 2000 IMP	762	754		
ACOP RECT F400 2200 IMP	143			
ACOP RECT F400 2500 IMP	867,5			
ACOP RECT F400 3000 IMP	1020	930		
ACOP RECT F400 3000 ASP	428	428		
ACOP RECT F400 3200 IMP	928	928		
ACOP RECT F400 3200 ASP	508	508		
ACOP RECT F400 3500 IMP	658	658		
ACOP RECT F400 3500 ASP	788	758		CHUDX510 Epsilon 2mm F400
ACOP RECT F400 3700 IMP	858	858		JUNTA FLEXIB GRU LOMA555
ACOP RECT F400 3700 ASP	928	928		
ACOP RECT F400 4500 IMP	1058	1058		
ACOP RECT F400 5028 ASP	1258	1258		
ACOP RECT CHOT/CGT 400	476	476		
ACOP RECT CHOT/CGT 480	476	476		
ACOP RECT CHOT/CGT 500	524	524		
ACOP RECT CHOT/CGT 540	594	594		
ACOP RECT CHOT/CGT 630	694	654		
ACOP RECT CHOT/CGT 710	751	751		
ACOP RECT CHOT/CGT 800	851	851		
ACOP RECT CHOT/CGT 900	951	951		
ACOP RECT CHOT/CGT 1000	1056	1056		
ACOP RECT CHOT/CGT 1200	1276	1276		

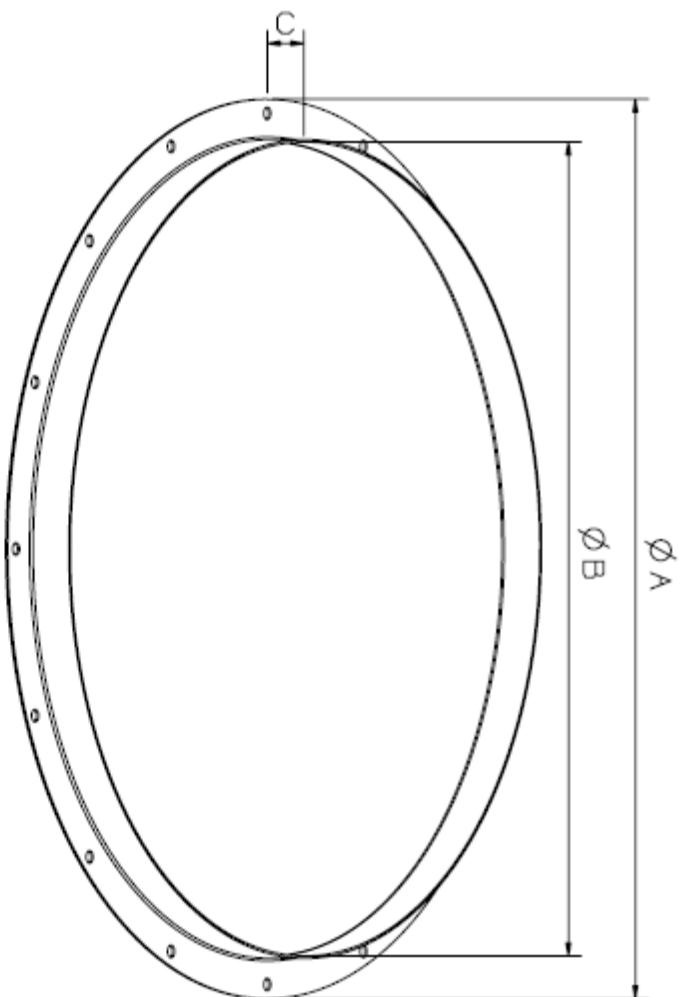
INT-xx/6P-F400

BI-xx

BI

JAE

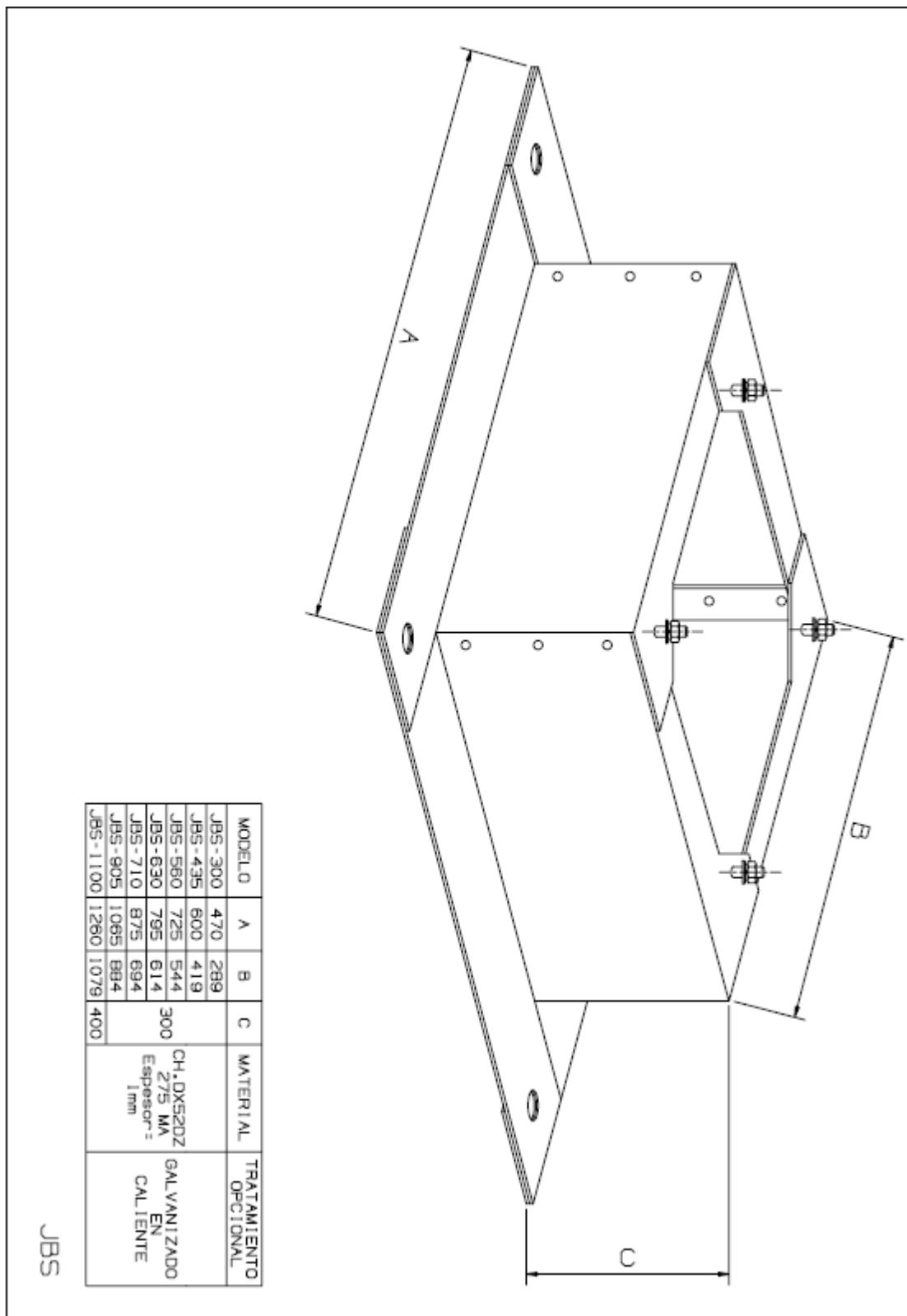
MODELO	ϕ A	ϕ B	C	MATERIAL		TRATAMIENTO OPCIONAL
				1	2	
JAE 300	219	182		CH.DCO4	FIBRA DE	
JAE 435	300	252		Espesor =	PINTURA POL	
JAE 560	415	358		1.5 / 2 /	RAL 9011 /	
JAE 630	474	403	254	2.5 / 3mm.	RECUBRIMIENTO	
JAE 710	581	503			DE POLIURETANO	
JAE 805	714	633			TEFLONADO	
JAE 1100	797	713				

JAE

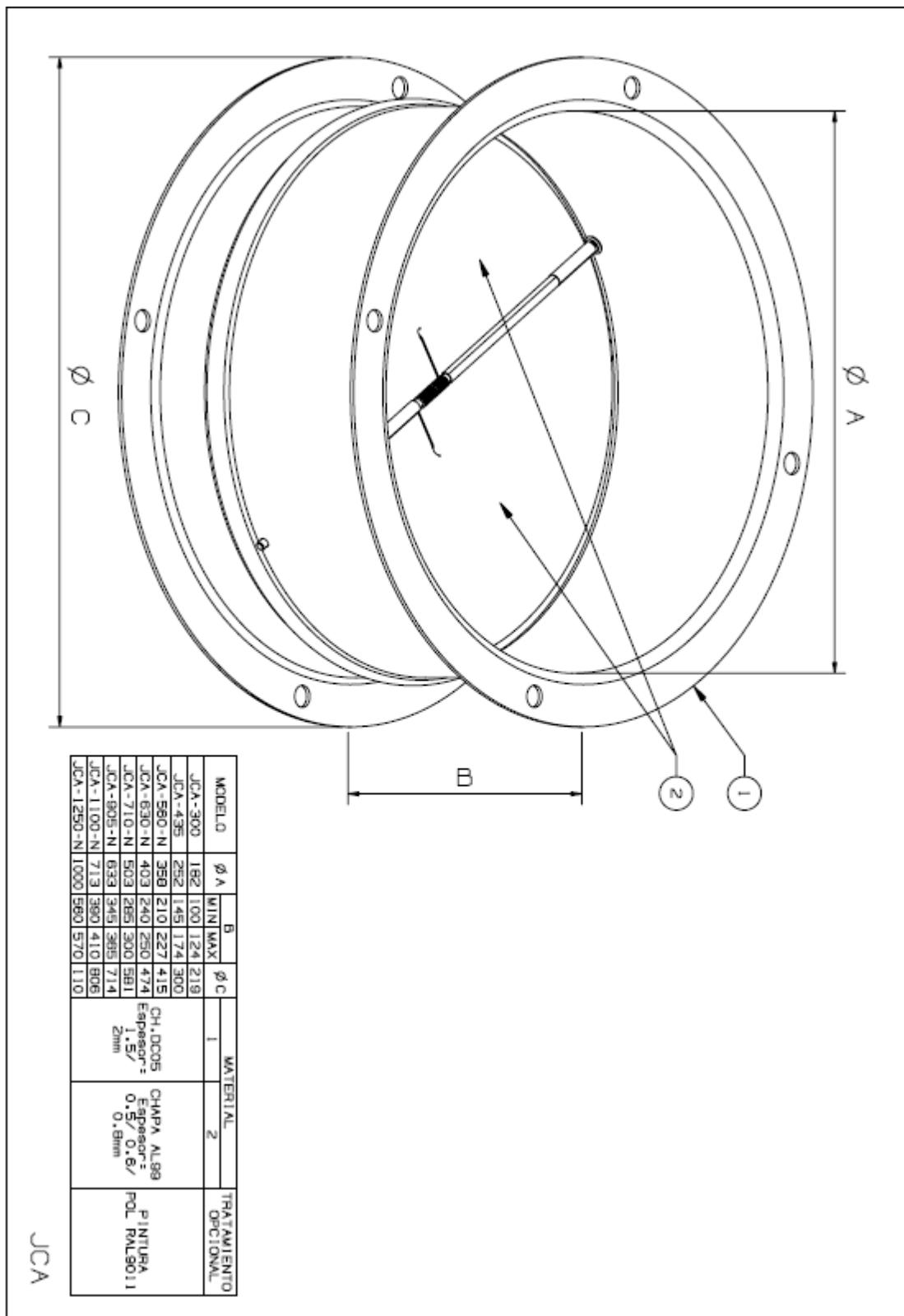
JBR

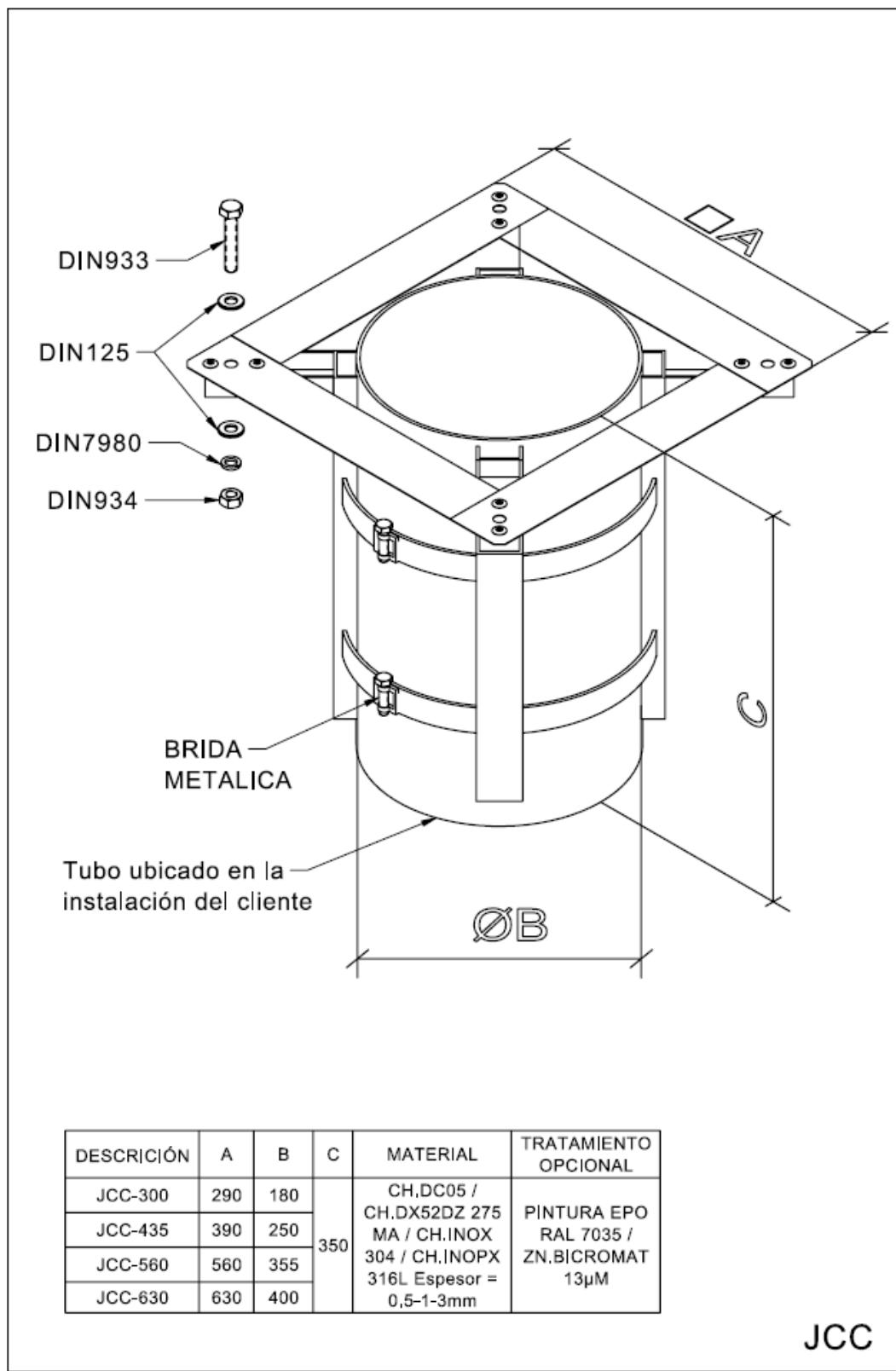
MODELO	ϕ_A	ϕ_B	C	MATERIAL	TRATAMIENTO OPTIONAL
JBR 300	219	182	55		
JBR 435	300	252	55		
JBR 560	415	358	55	CH.DCO4	PINTURA
JBR 630	474	403	55	Espesor: 1,5/ 2/ 2,5/ 3mm	POL. RAL9011/ TEFLONADO
JBR 905	714	633	55		
JBR 1100	797	713	60		
JBR 1250	1110	1004	60		

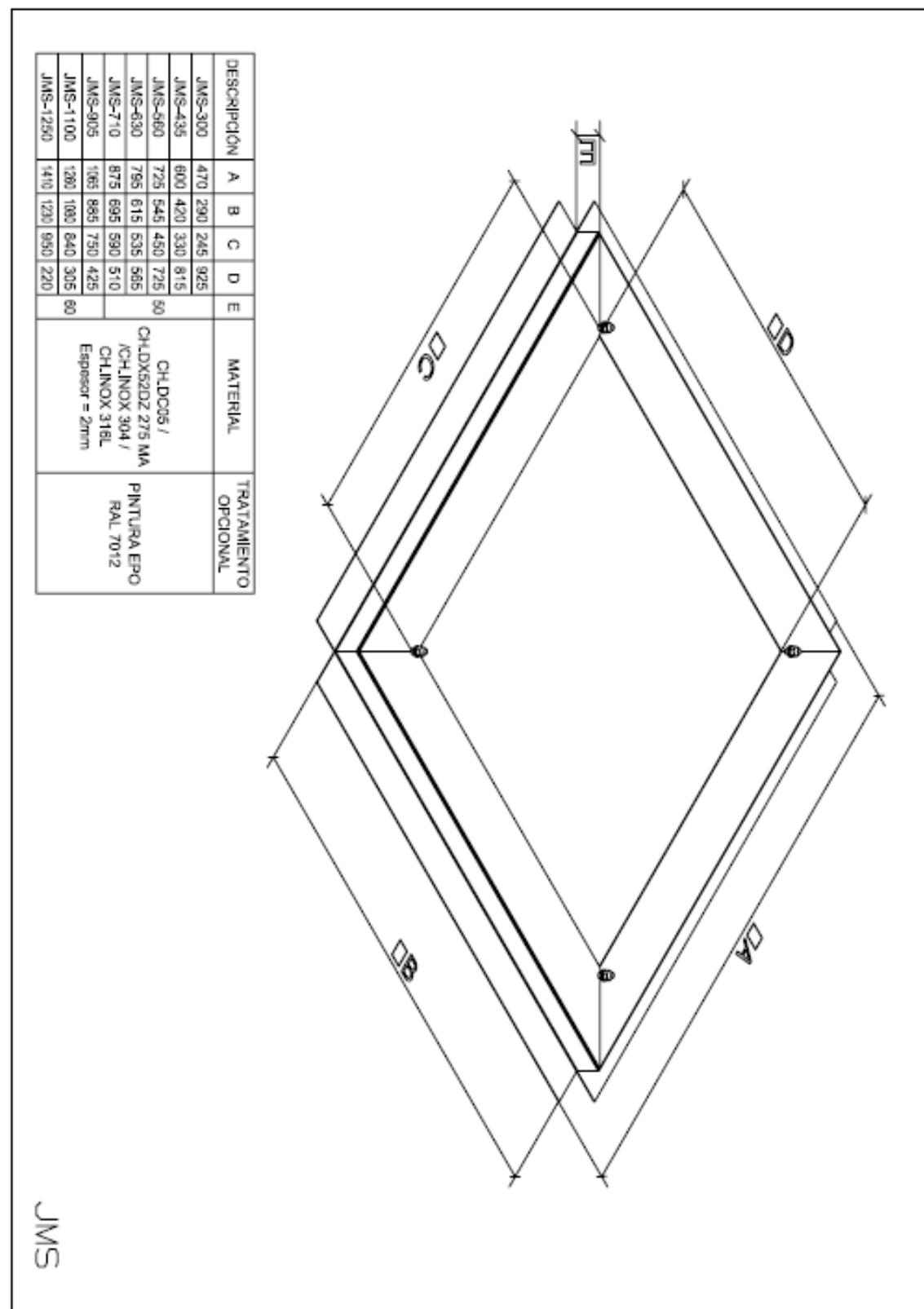
JBR

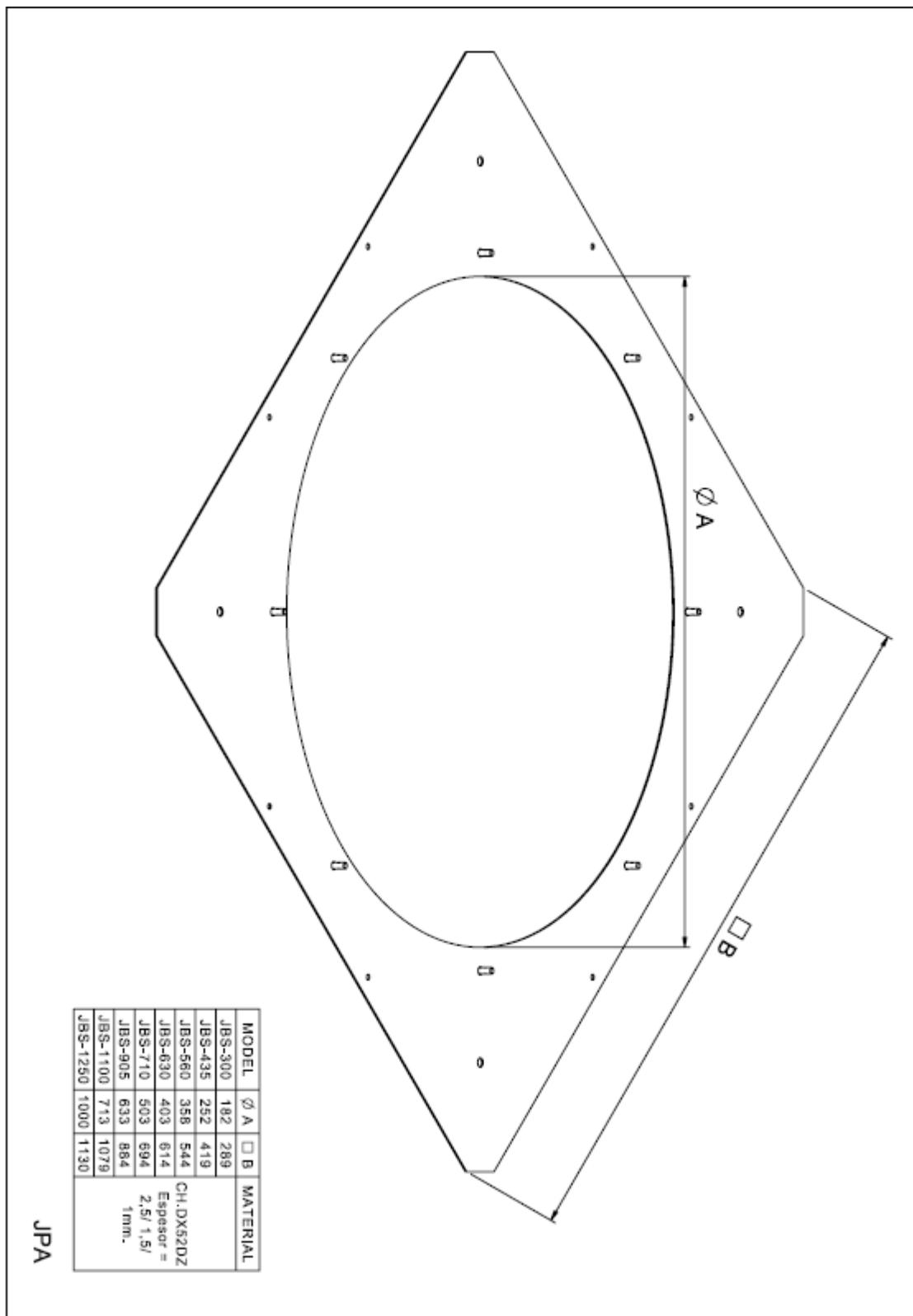
JBS JBS-V

JCA JCA N

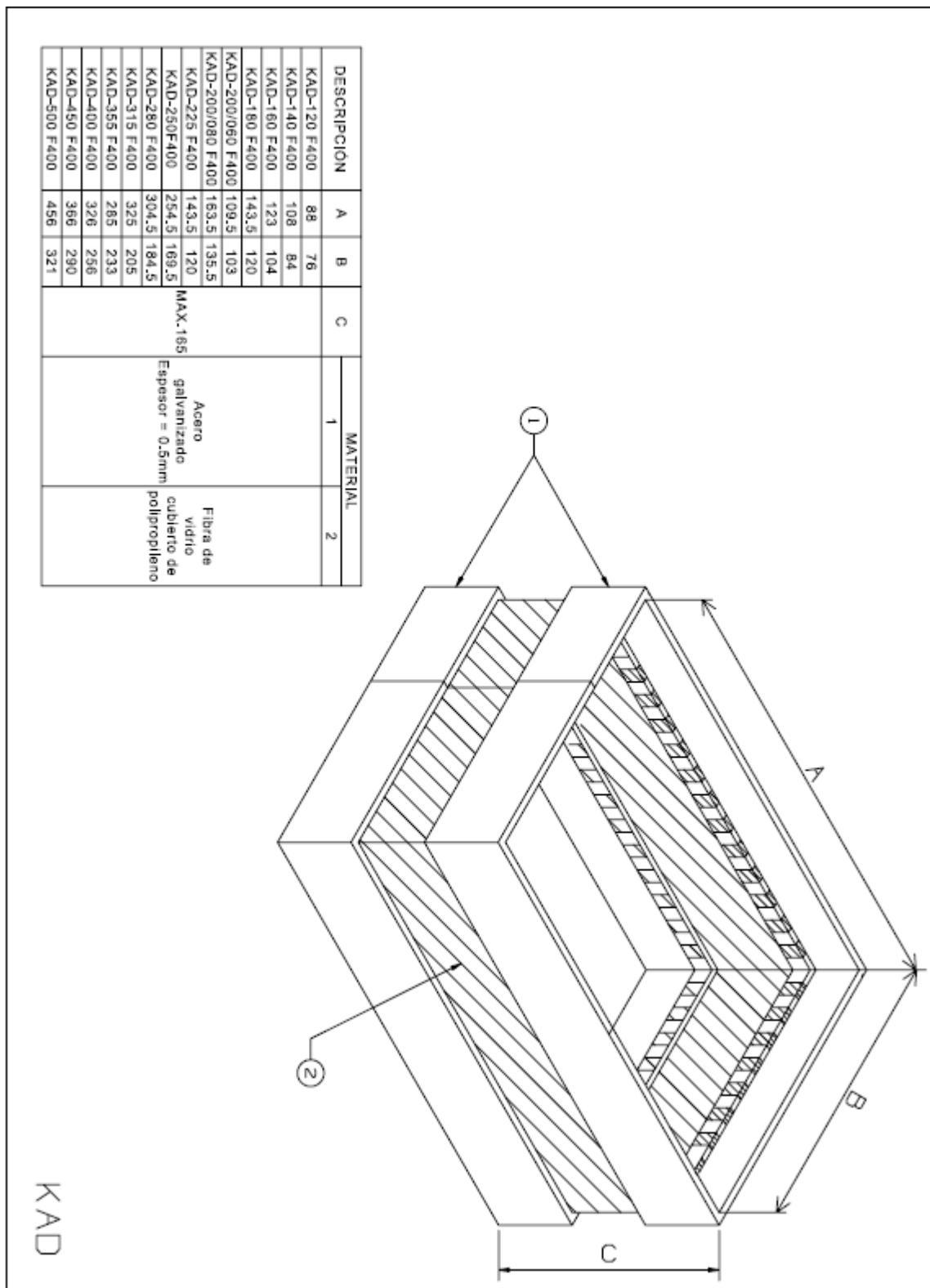


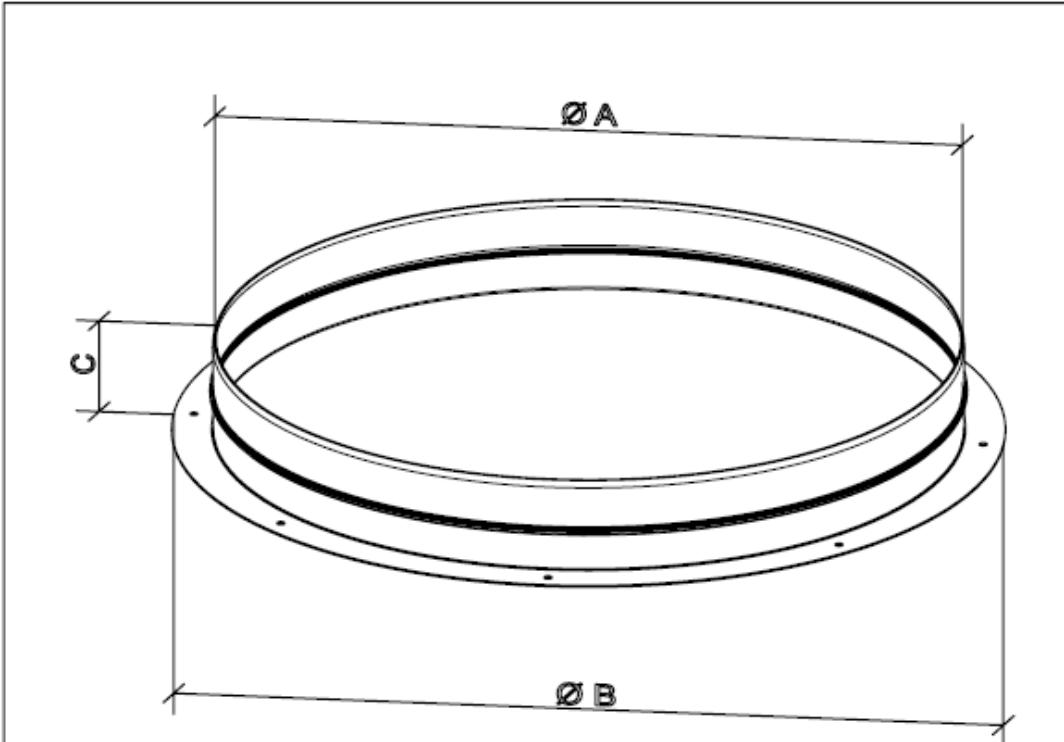
JCC


JMS

JPA

KAD F400



KBA

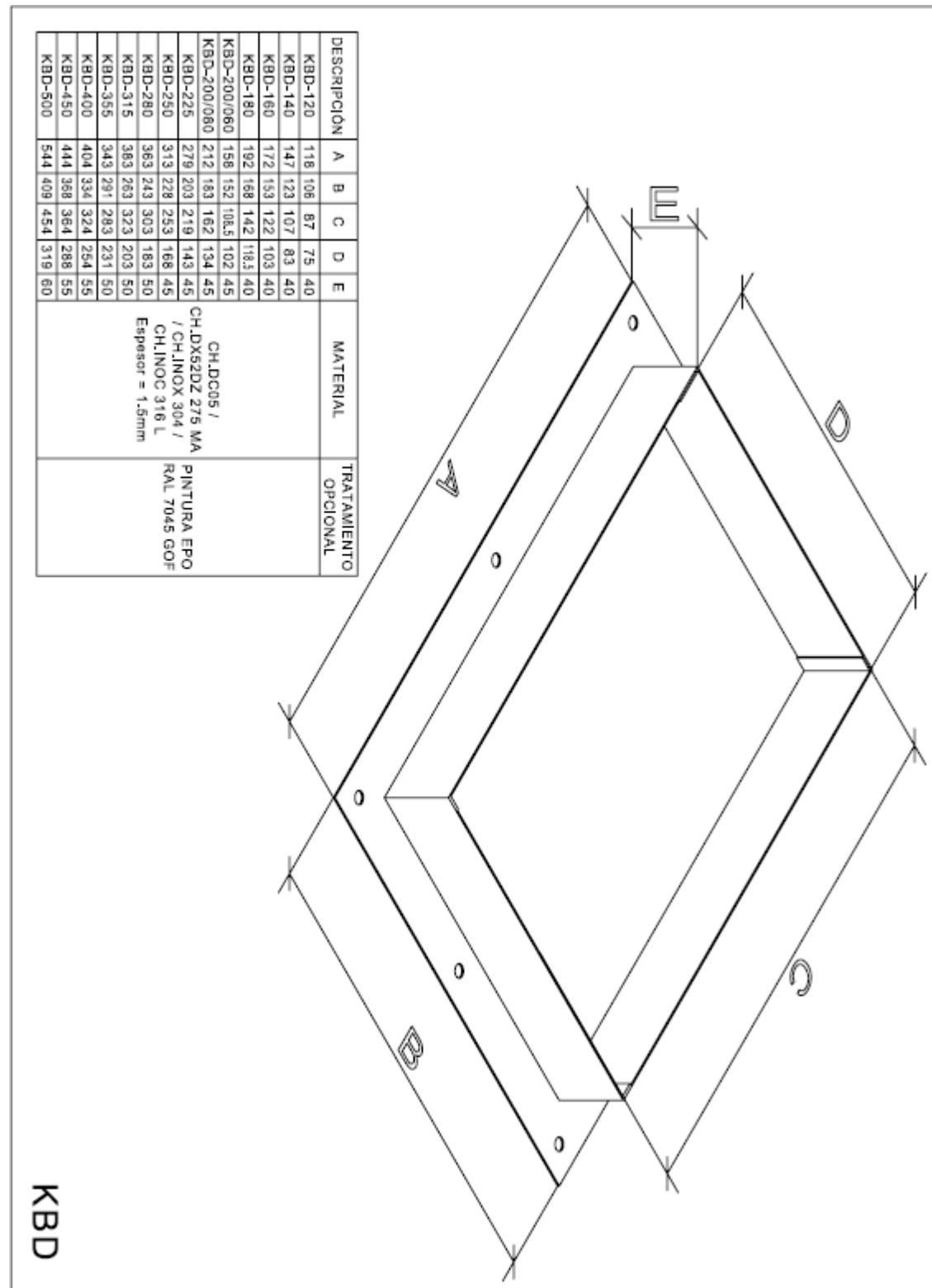
DESCRIPCIÓN	A	B	C	MATERIAL	TRATAMIENTO OPCIONAL
KBA-120	112	150			
KBA-140	125	170			
KBA-160	160	205			
KBA-180	180	244			
KBA-200	200	255			
KBA-225	224	280			
KBA-250	250	306			
KBA-280	280	348			
KBA-315	315	382			
KBA-355	355	422			
KBA-400	400	464			
KBA-450	450	515			
KBA-500	500	565			

65

CH,DC05 /
CH,DX52DZ 275 MA
/ CH,INOX 316L /
CH,INOX 304
Espesor =1 -1.2mm

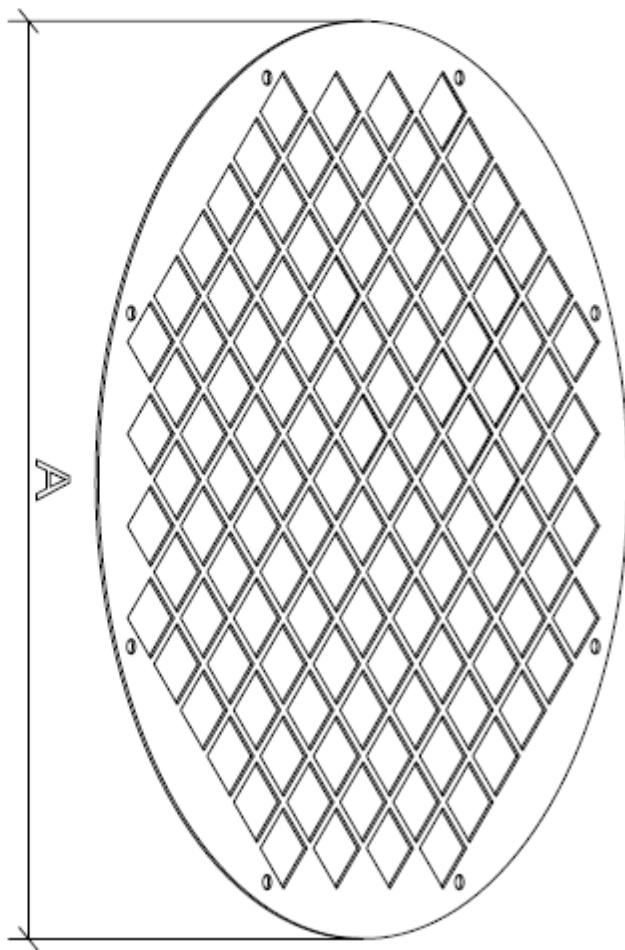
PINTURA EPO
RAL 7045

KBA

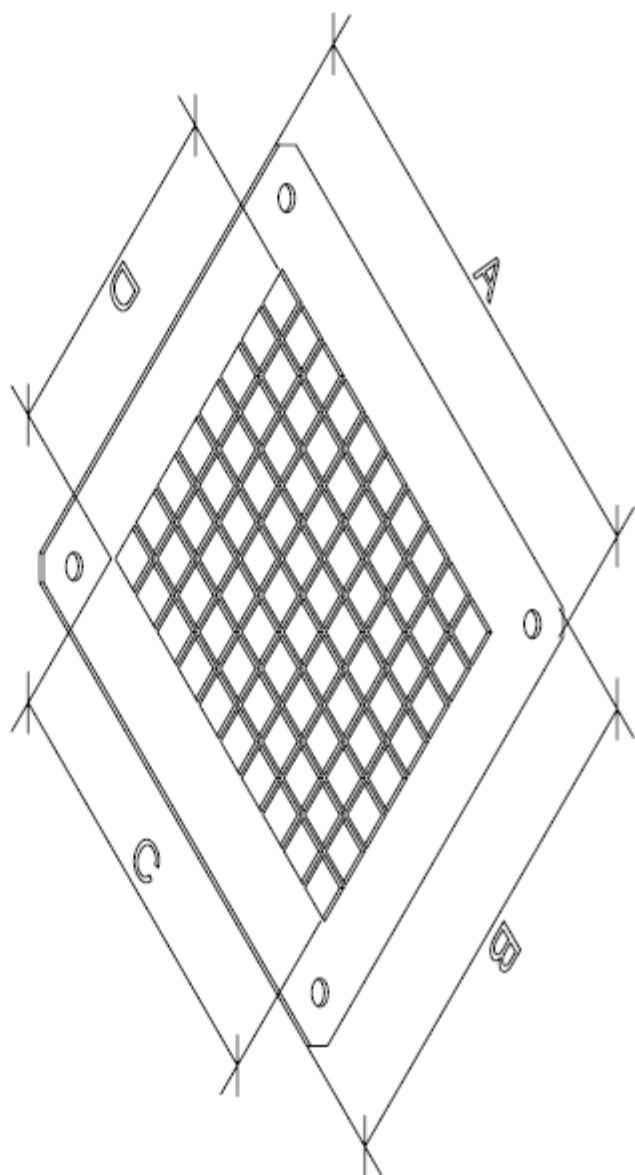
KBD


KRJ

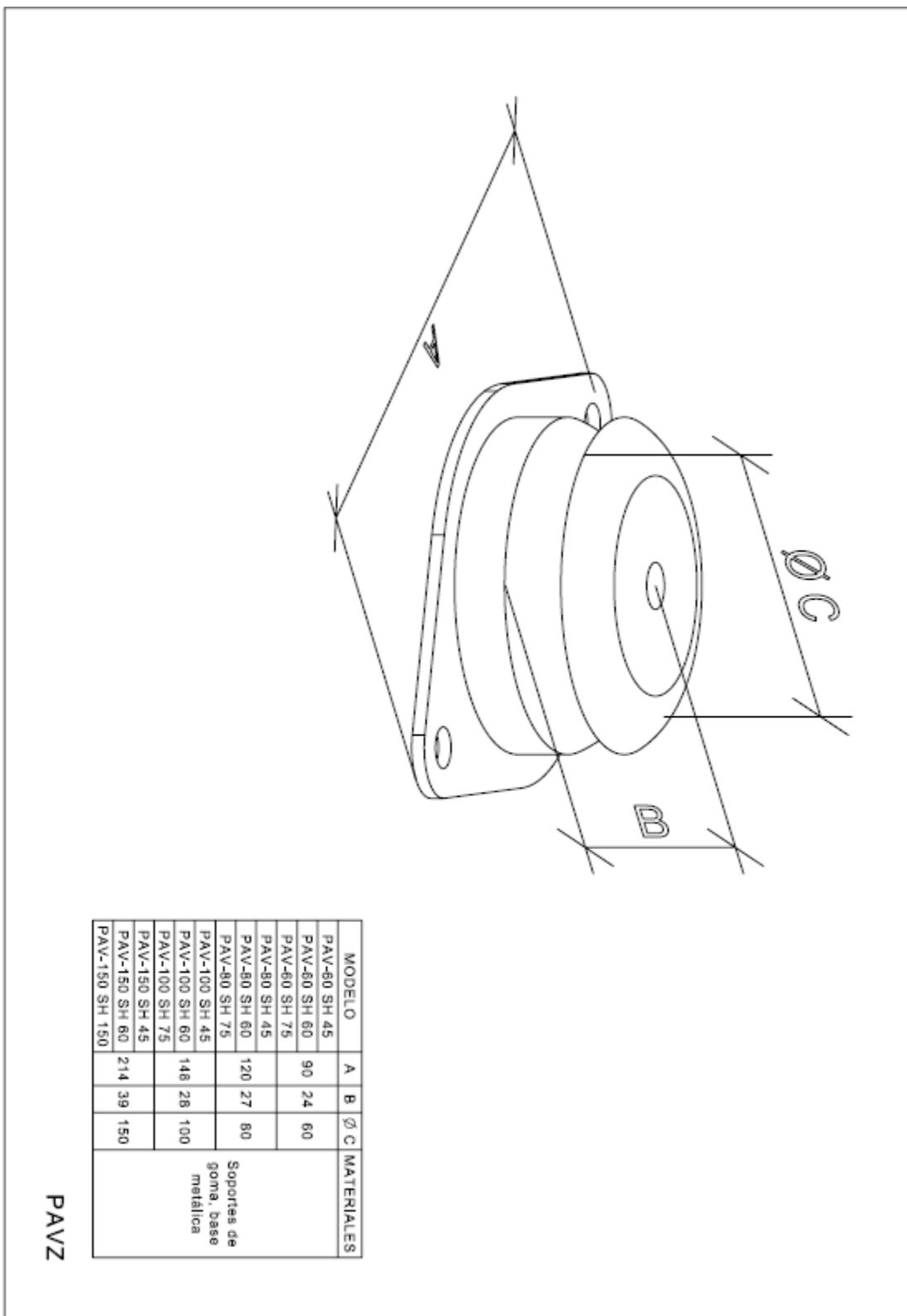
DESCRIPCION	Ø A	MATERIAL	TRATAMIENTO OPCIONAL
KRL-20	148		
KRL-140	165		
KRL-160	200		
KRL-180	242		
KRL-200	254	CH.DX505 / CH.IINOX 304 / CH.IINOX 316 L	PINTURA EPO RAL 7035
KRL-225	278		
KRL-250	282		
KRL-280	320		
KRL-315	354		
KRL-355	394		
KRL-400	438		
KRL-450	485		
KRL-500	564		

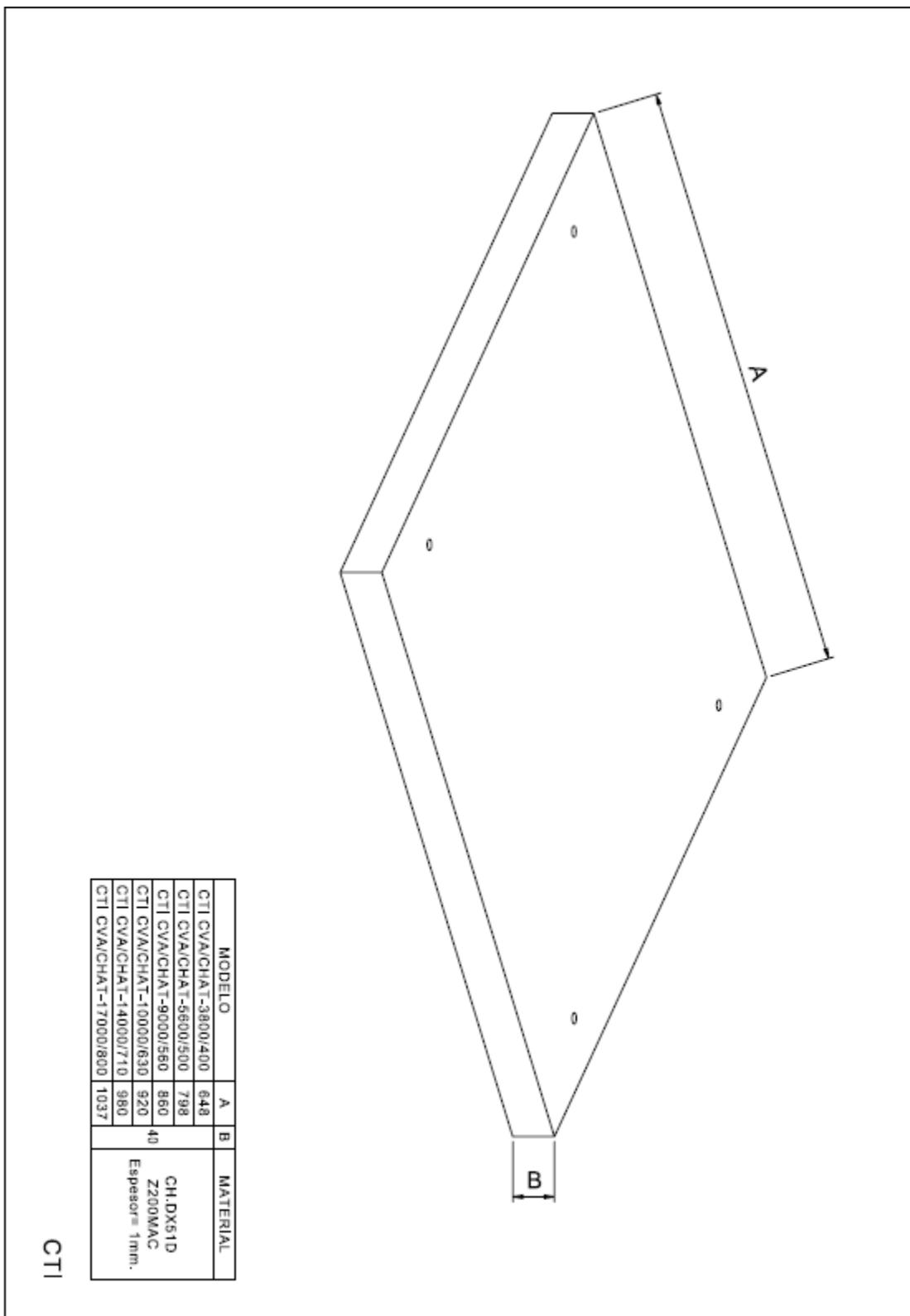
**KRJ**

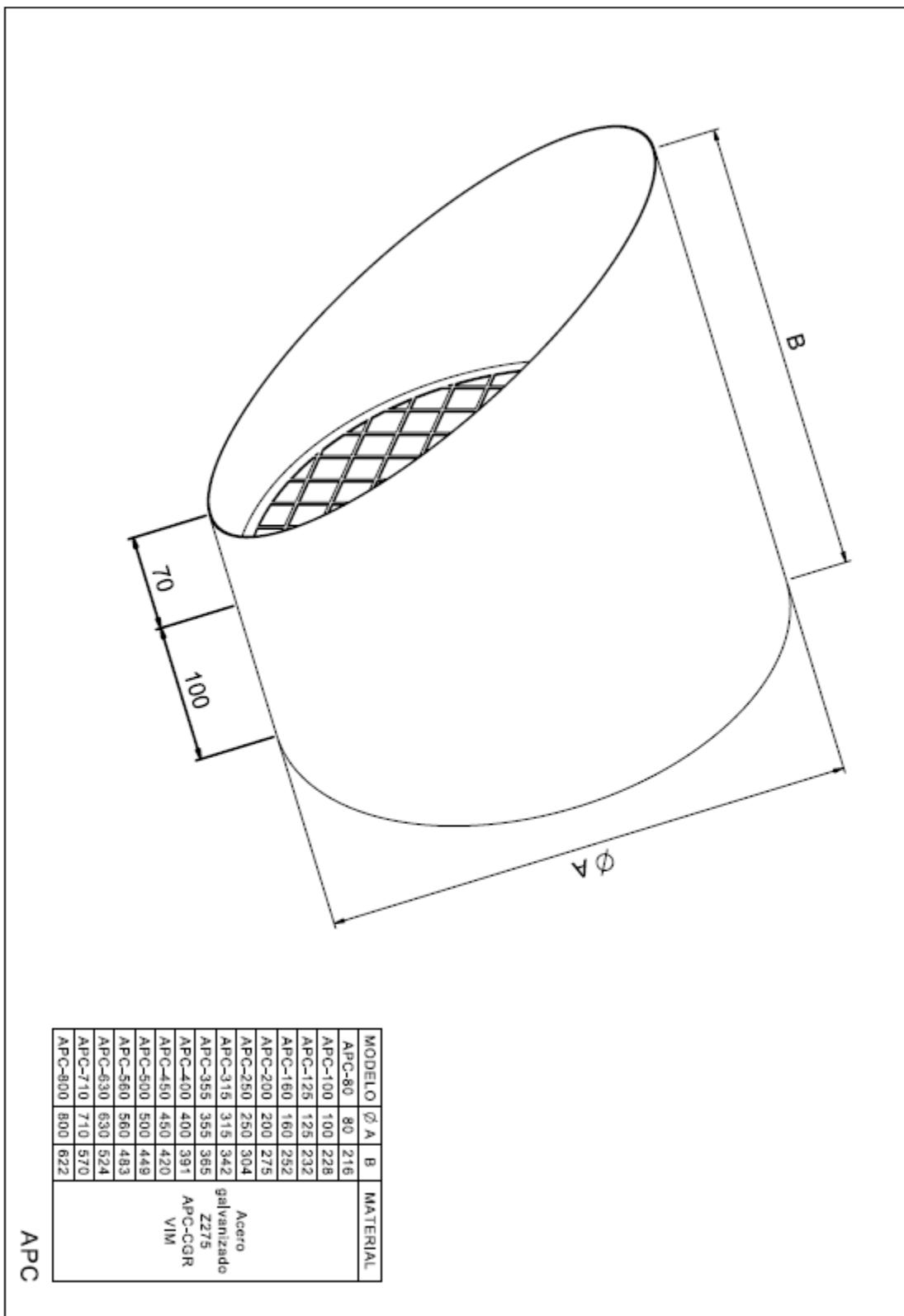
DESCRIPCIÓN	A	B	C	D	MATERIAL	TRATAMIENTO OPCIONAL
KRJ-120X100	171	152	126	100.6		
KRJ-140X115	192	168	166.5	140.7	CH.DC05 / CH.DX52DZ 275 MA	
KRJ-160X130	212	183	166.5	140.7		PINTURA EPO
KRJ-216X140	279	203	218.1	153.6	/ CH.INOX 304 / CH. INOX 316 L	RAL 7035
KRJ-250X165	312	226	253	164.1		
KRJ-300X184	362	242	303.8	189.5		
KRJ-320X200	382	262	321.3	202.2		
KRJ-320X250	403	333	321.3	253		Espesor = 1.2mm

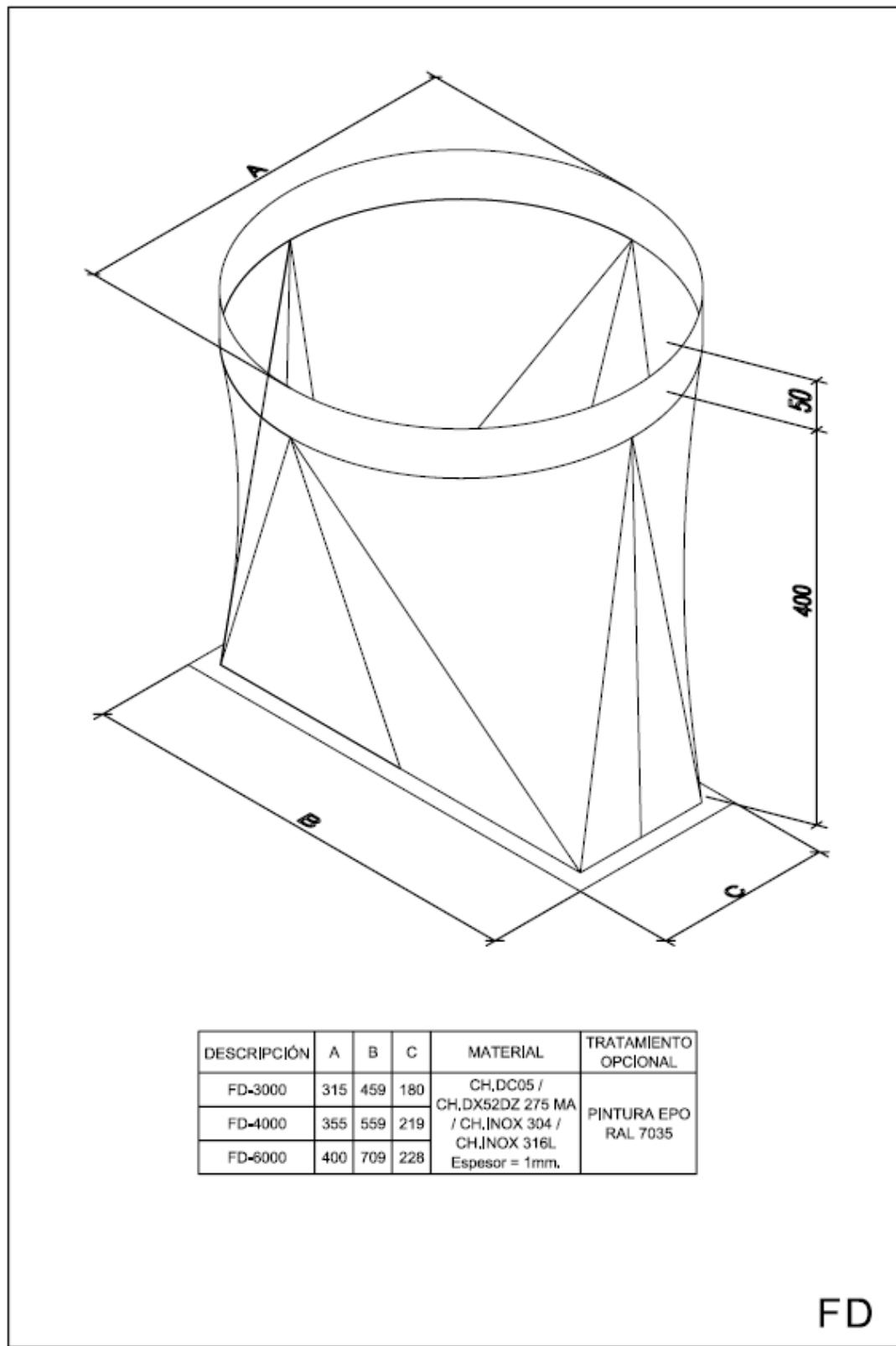


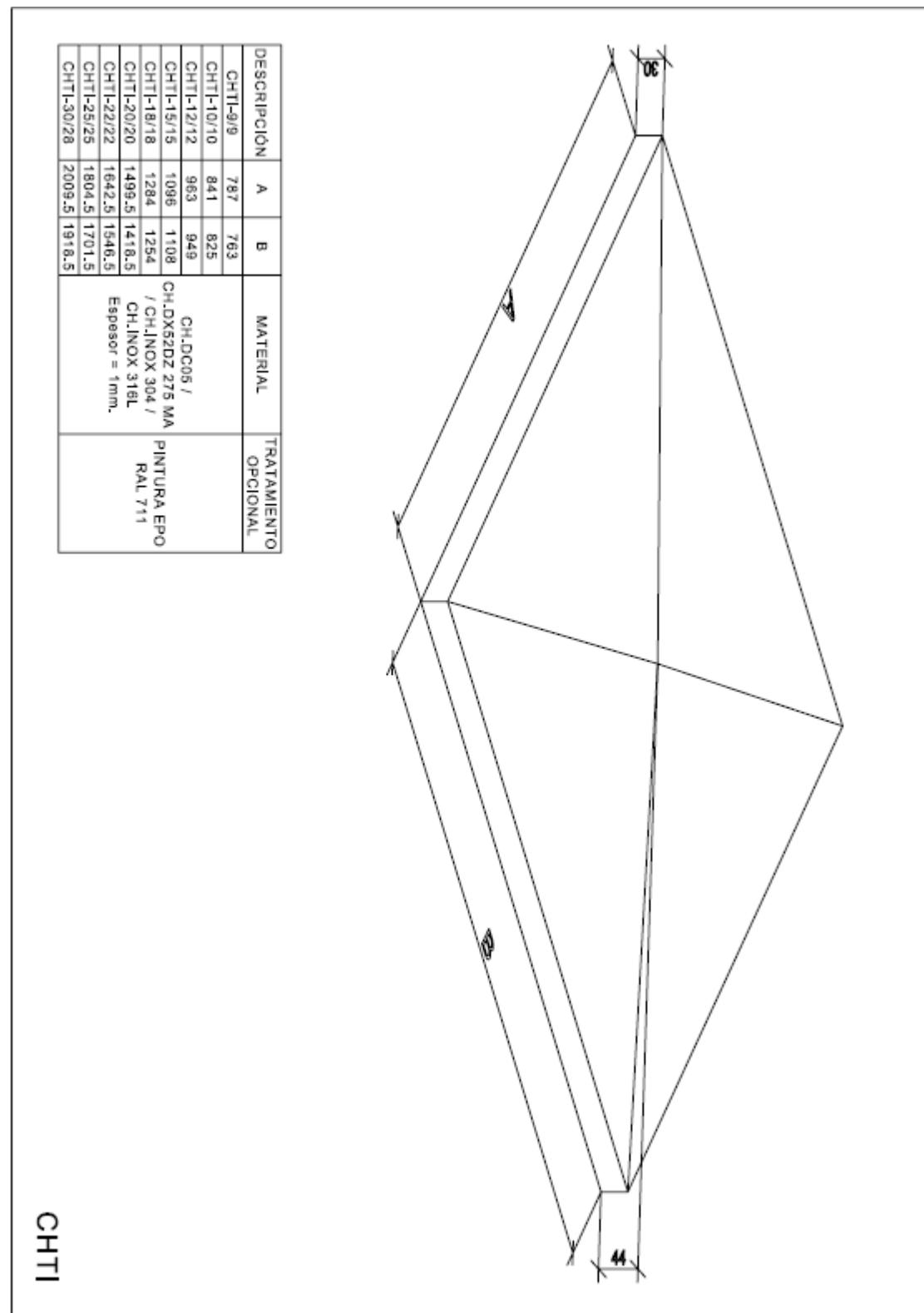
KRJ

PAVZ

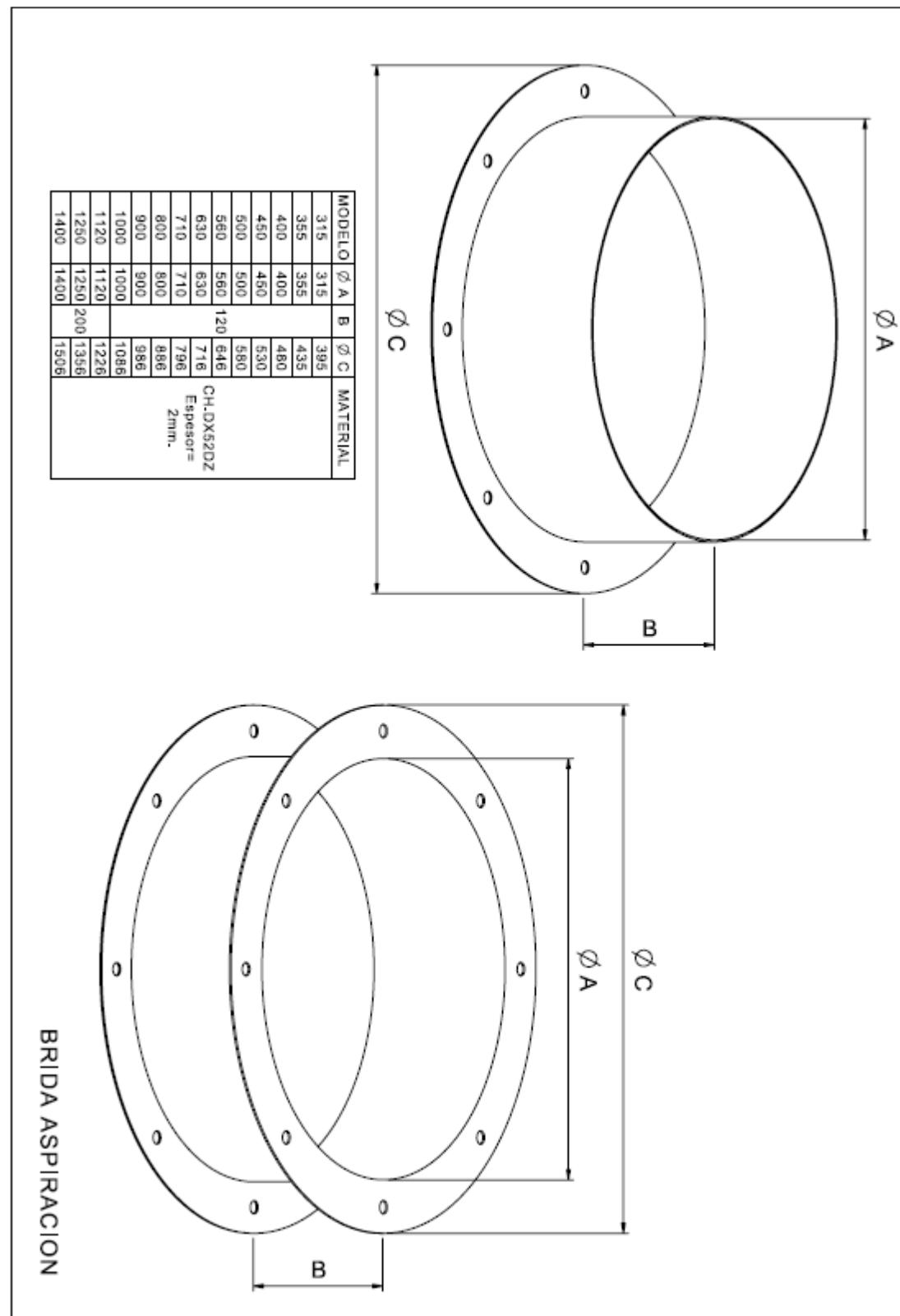
CTI

APC

FD

CHTI

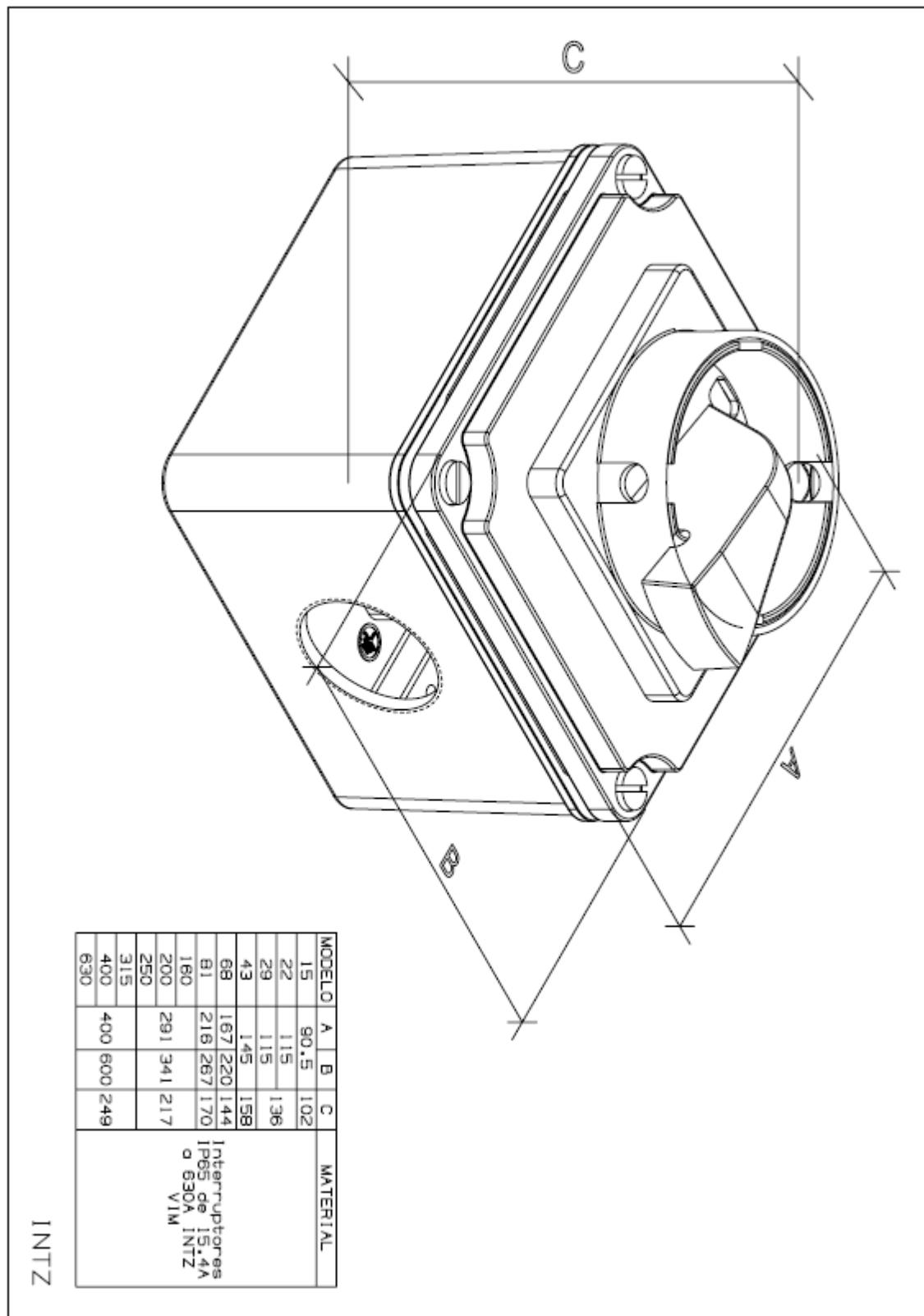
INFLET FLANGE



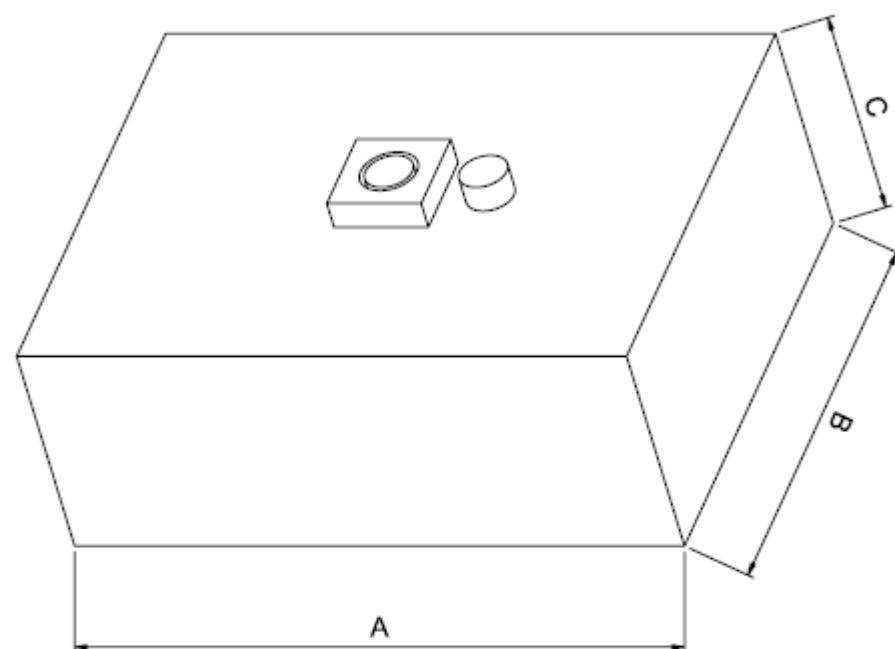
OUTLET FLANGE

MODELO	A	B	C	D	E	MATERIAL	TRATAMIENTO OPCIONAL
315	460	219	414	223			
355	508	303	452	247			
400	562	330	506	274			
450	624	364	568	305			
500	684	401	638	345			
550	770	439	714	383	28	CHAPA APRO3/ INOX 304/ INOX 316L Especifico 1,5mm	
630	856	469	800	433	28	PINTURA EPO	
710	984	535	848	479	710	RAL7045	
800	1062	599	1006	533	800		
900	1188	651	1150	595	900		
1000	1322	719	1265	663	1000		
1120	1478	800	1422	744	1120		
1250	1624	859	1524	803	50	1250	
1400	1920	990	1784	934	63	1400	

BRIDA DESCARGA

INTZ

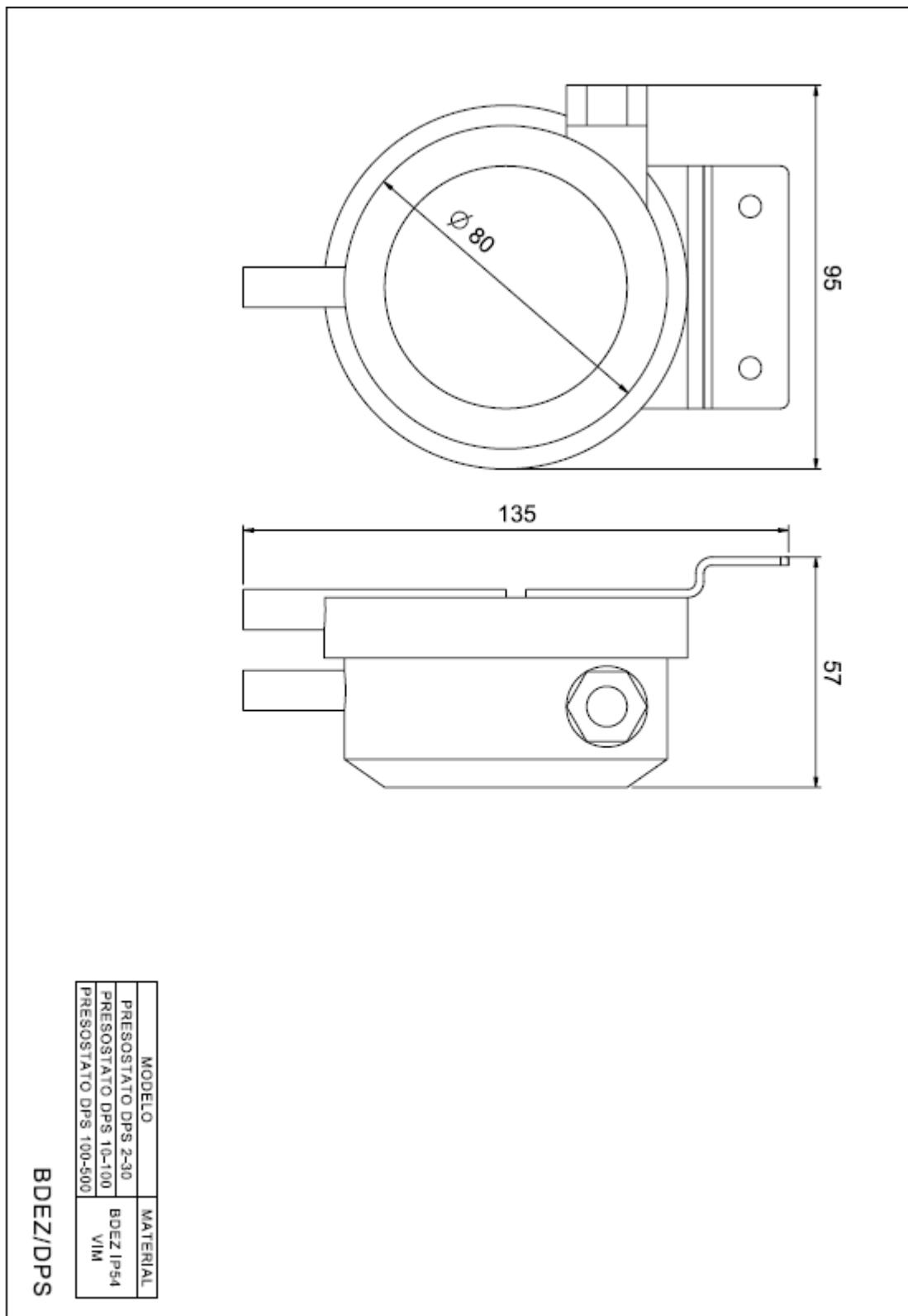
PILOTAIR 2002



MODELO	A	B	C	MATERIAL
PILOTAIR 2002 TALLA 0	323	251	120	PILOTAIR
PILOTAIR 2002 TALLA 4	615	415	230	VIM

PILOTAIR 2002

BDEZ/DPS



VSD CFW

