



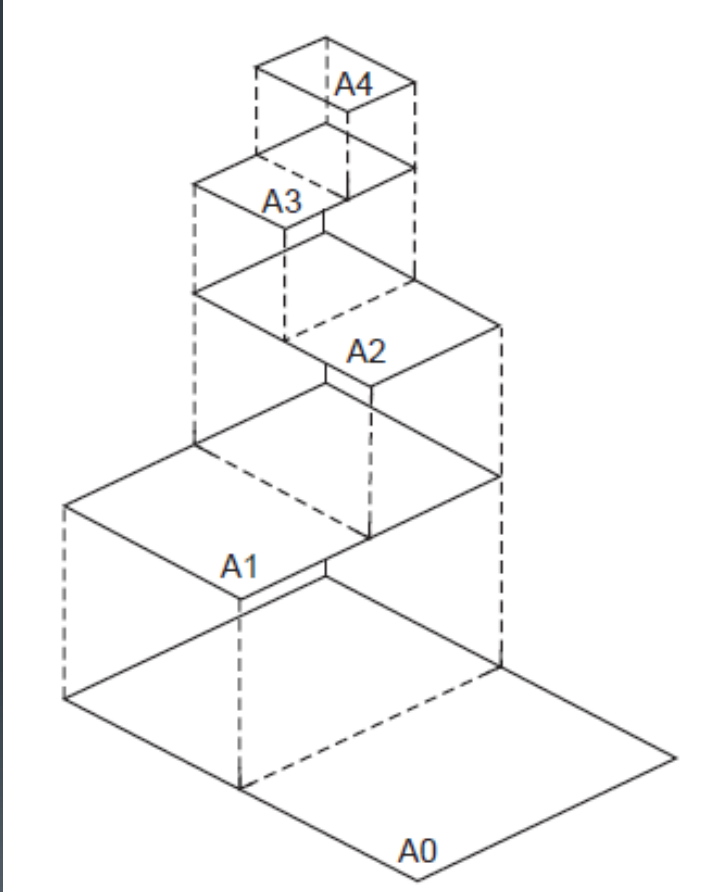
Formatos de papel

- Formatos de estándar ISO 216
 - Dimensiones en milímetros
- Formatos de estándar ANSI/ASME Y14.1
 - Dimensiones en pulgadas

ISO 216: Formatos tipo A

Format	A series	
Size	mm × mm	in × in
0	841 × 1189	33.11 × 46.81
1	594 × 841	23.39 × 33.11
2	420 × 594	16.54 × 23.39
3	297 × 420	11.69 × 16.54
4	210 × 297	8.27 × 11.69
5	148 × 210	5.83 × 8.27
6	105 × 148	4.13 × 5.83
7	74 × 105	2.91 × 4.13
8	52 × 74	2.05 × 2.91
9	37 × 52	1.46 × 2.05
10	26 × 37	1.02 × 1.46

- Razón de relación = $\sqrt{2}$
- Tamaños Ilustrados
- http://upload.wikimedia.org/wikipedia/commons/1/16/A_size_illustration2.svg
- Comparación
- http://upload.wikimedia.org/wikipedia/commons/f/f6/A_size_illustration2_with_letter_and_legal.svg



841 x 1189

A0

594 x 841

A1

420 x 594

A2

297 x 420

A3

210 x 297

A4

148 x 210

A5

105 x 148

A6

ISO 216: Formatos tipo B

Format	B series	
Size	mm × mm	in × in
0	1000 × 1414	39.37 × 55.67
1	707 × 1000	27.83 × 39.37
2	500 × 707	19.69 × 27.83
3	353 × 500	13.90 × 19.69
4	250 × 353	9.84 × 13.90
5	176 × 250	6.93 × 9.84
6	125 × 176	4.92 × 6.93
7	88 × 125	3.46 × 4.92
8	62 × 88	2.44 × 3.46

- Razón de relación = $\sqrt{1/2}$

Tamaños Ilustrados

- http://upload.wikimedia.org/wikipedia/commons/6/66/B_size_illustration2.svg

ANSI/ASME Y14.1

Name	in × in	mm × mm	Ratio	Alias	Similar ISO A size
ANSI A	8½ × 11	216 × 279	1.2941	Letter	A4
ANSI B	17 × 11 11 × 17	432 × 279 279 × 432	1.5455	Ledger ^[5] Tabloid	A3
ANSI C	17 × 22	432 × 559	1.2941		A2
ANSI D	22 × 34	559 × 864	1.5455		A1
ANSI E	34 × 44	864 × 1118	1.2941		A0

- http://upload.wikimedia.org/wikipedia/commons/b/bb/ANSI_size_illustration2.svg



Presentación de un Dibujo Formal

Bordes

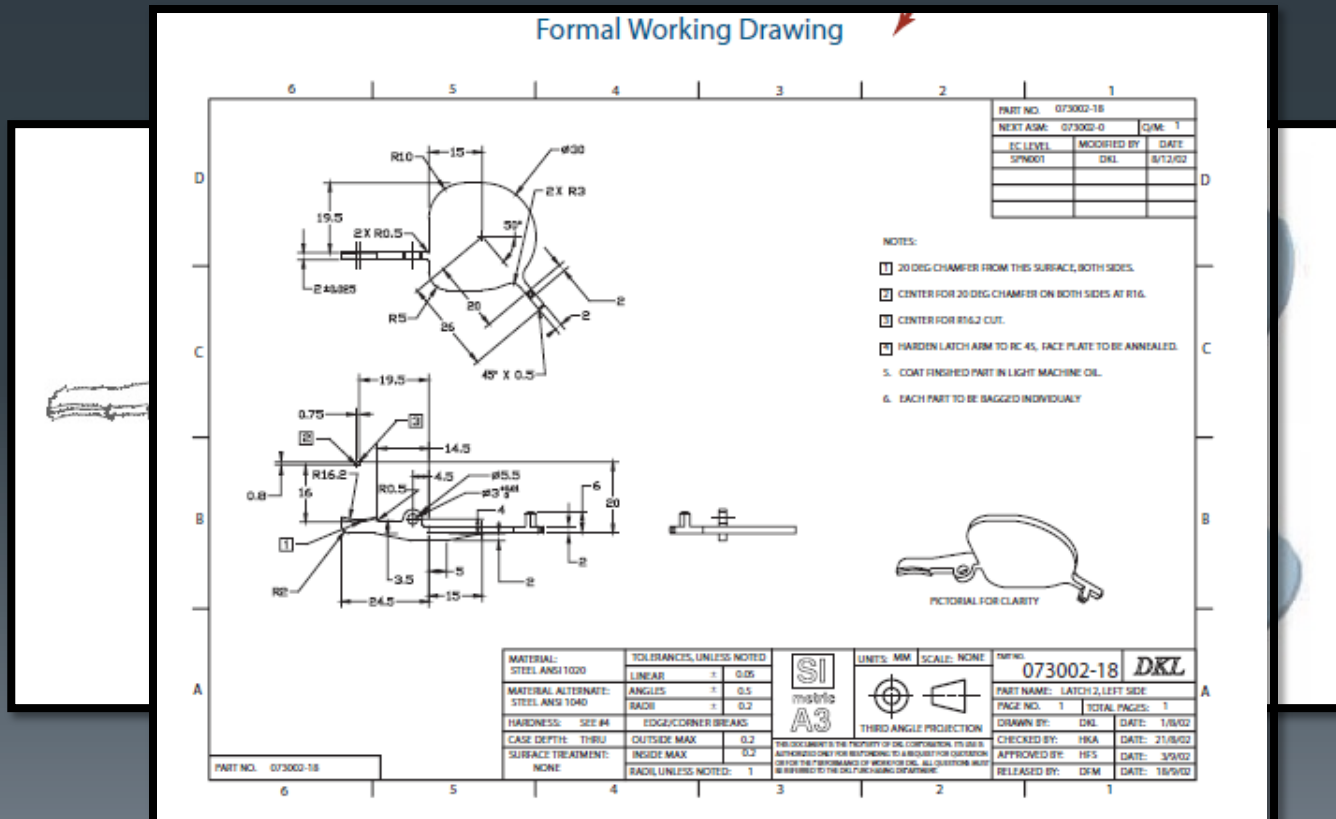
Cajetines

Dibujo de trabajo

- Define las características, tamaños, tolerancias y el procedimiento de montaje de una pieza, o serie de piezas.
- Objetivo del dibujo: Mostrar todos los detalles e información necesaria de geometría e ingeniería.
- El ingeniero no debería ser consultado para resolver cuestiones de interpretación de la pieza, su manufactura y/o su instalación.

De un esbozo a un dibujo

- Se espera una presentación con vistas ortogonales y técnicas específicas, tamaño de hoja estándar, cajetín con información de presentación e ingeniería.



Formato de hoja apropiado

		<table border="1"> <tr><td colspan="2">PART NO.</td></tr> <tr><td>NEXT ASM.</td><td>QTY.</td></tr> <tr><td>EC LEVEL</td><td>MODIFIED BY</td></tr> <tr><td></td><td>DATE</td></tr> </table>	PART NO.		NEXT ASM.	QTY.	EC LEVEL	MODIFIED BY		DATE																										
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Recuadro de un dibujo formal

The diagram illustrates the layout of a formal drawing frame. It features a grid with columns numbered 1 to 6 from right to left and rows labeled A to D from bottom to top. A light blue shaded area in the upper left is labeled "DRAWING LOCATION C5". A blue border is indicated on the left side. Grid markers are shown at the intersections of the grid lines. Two title blocks are present: a "MAIN TITLE BLOCK" at the bottom right and a "SECONDARY TITLE BLOCK" at the top right. The main title block contains various fields for material, tolerances, units, scale, and drawing information. The secondary title block contains fields for part number, next assembly, and modification details.

Labels and Callouts:

- BORDER
- GRID MARKERS
- DRAWING LOCATION C5
- MAIN TITLE BLOCK
- SECONDARY TITLE BLOCK

Grid and Dimensions:

Columns: 6, 5, 4, 3, 2, 1 (from left to right)

Rows: D, C, B, A (from top to bottom)

MAIN TITLE BLOCK (Bottom Right):



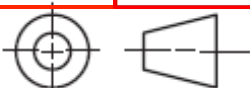
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MATERIAL ALTERNATE:	LINEAR	±						
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	RADII	±						
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CASE DEPTH:	OUTSIDE MAX					PAGE NO.	TOTAL PAGES:	
SURFACE TREATMENT:	INSIDE MAX					DRAWN BY:	DATE:	
	RADII, UNLESS NOTED:					CHECKED BY:	DATE:	
			<small>THIS DOCUMENT IS THE PROPERTY OF DKL CORPORATION. ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR DKL. ALL QUESTIONS MUST BE REFERRED TO THE DKL PURCHASING DEPARTMENT.</small>				APPROVED BY:	DATE:
							RELEASED BY:	DATE:

SECONDARY TITLE BLOCK (Top Right):

PART NO.		
NEXT ASM:		Q/M:
EC LEVEL	MODIFIED BY	DATE

Cajetín


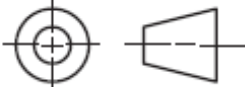
1. Sistema de unidades
2. Sistema de proyección
3. Escala
4. Dibujado por: Fecha:
 Diseñado por: Fecha:
 Revisado por: Fecha:
 Aprobado por: Fecha:
5. Nombre, contacto y logotipo de la compañía
6. Derechos de autor
7. Número de parte
8. Nombre de parte

MATERIAL:	TOLERANCES, UNLESS NOTED			UNITS:	SCALE:	PART NO.	
MATERIAL ALTERNATE:	LINEAR	±		 THIRD ANGLE PROJECTION	PART NAME:		
	ANGLES	±			PAGE NO.	TOTAL PAGES:	
	RADII	±					
HARDNESS:	EDGE/CORNER BREAKS		<small>THIS DOCUMENT IS THE PROPERTY OF DKL CORPORATION. ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR DKL. ALL QUESTIONS MUST BE REFERRED TO THE DKL PURCHASING DEPARTMENT.</small>				
CASE DEPTH:	OUTSIDE MAX						
SURFACE TREATMENT:	INSIDE MAX						
	RADII, UNLESS NOTED:						

DRAWN BY:	DATE:
CHECKED BY:	DATE:
APPROVED BY:	DATE:
RELEASED BY:	DATE:

Cajetín

9. Número de páginas/Total de páginas
10. Tamaño del formato
11. Material, especificación y/o tratamiento
12. Peso de la parte
13. Tolerancias generales

MATERIAL:	TOLERANCES, UNLESS NOTED		UNITS:	SCALE:	PART NO.	DKL
MATERIAL ALTERNATE:	LINEAR ±			THIRD ANGLE PROJECTION	PART NAME:	
HARDNESS:	ANGLES ±				PAGE NO.	TOTAL PAGES:
CASE DEPTH:	RADII ±				DRAWN BY:	DATE:
SURFACE TREATMENT:	EDGE/CORNER BREAKS	THIS DOCUMENT IS THE PROPERTY OF DKL CORPORATION. ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR DKL. ALL QUESTIONS MUST BE REFERRED TO THE DKL PURCHASING DEPARTMENT.	CHECKED BY:	DATE:		
	OUTSIDE MAX		APPROVED BY:	DATE:		
	INSIDE MAX		RELEASED BY:	DATE:		
	RADII, UNLESS NOTED:					

Ejemplos:

SolidWorks File Edit View Insert Tools Window Help FPM_00-0100 - Sheet1 * SolidWorks Search


Smart Dimension Trim Convert Entities Offset Entities Linear Sketch Pattern Display/Delete Relations Quick Snaps

View Layout Annotation Sketch Evaluate Office Products

Title Block Data

Message
Enter values in the highlighted title block fields.

SECTION B-B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CAD FILE NAME: FPM_00-0100		 Appian Way Technologies LLC 276 Winter Hill Place Powell, OH 43065	
TOLERANCES ARE: DECIMALS ANGLES .X ± .03 ± 1 Deg. .XX ± .015 .XXX ± .005		NEXT ASSEMBLY: -			
MATERIAL: SEE BILL OF MATERIALS		APPROVALS		DATE	
		DRAWN	C. Thompson	02-03-2011	
		CHECK		02-03-2011	
		ENGR			
TREATMENT		Q.C		SIZE	
FINISH: SEE BILL OF MATERIALS		R & D		DRAWING NUMBER:	
				B FPM_00-0100	
		SCALE: 3:2		WEIGHT: 0.103	
				SHEET 1 OF 1	

4 3 2 1

SolidWorks Premium 2010 x64 Edition 11.796in 0.935in 0in Under Defined Editing Sheet1 (Locked Focus) 3 : 2

1

REVISIONS			
SYM	DESCRIPTION	DATE	APPD
A	N32 WAS $\frac{1}{2}$ WHIT.	14-12-78	A.W.B.

4			
3			
2			
1	A7325	VALVE BODY	1
ITEM	DRG or PART No.	DESCRIPTION	QTY


UNLESS OTHERWISE STATED ALL DIMENSIONS IN MILLIMETRES. TOLERANCES LINEAR: ANGULAR:		DRN 1:1:78 JKL	(NAME OF FIRM)			
		CKD 2:1:78 MJM				
		MATERIAL	AFPD 5:1:78 AWB	(TITLE OF DWG.)		
		CAST STEEL	ISSUED 4:2:78 PFP			
DRAFTING STANDARD AS 1100	FINISH AS MACHINED	SIZE A3	ORG No	A2481	SHEET 1 of 1	

Figure 5.2 - Typical Titleblock


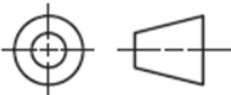
Ejemplos:

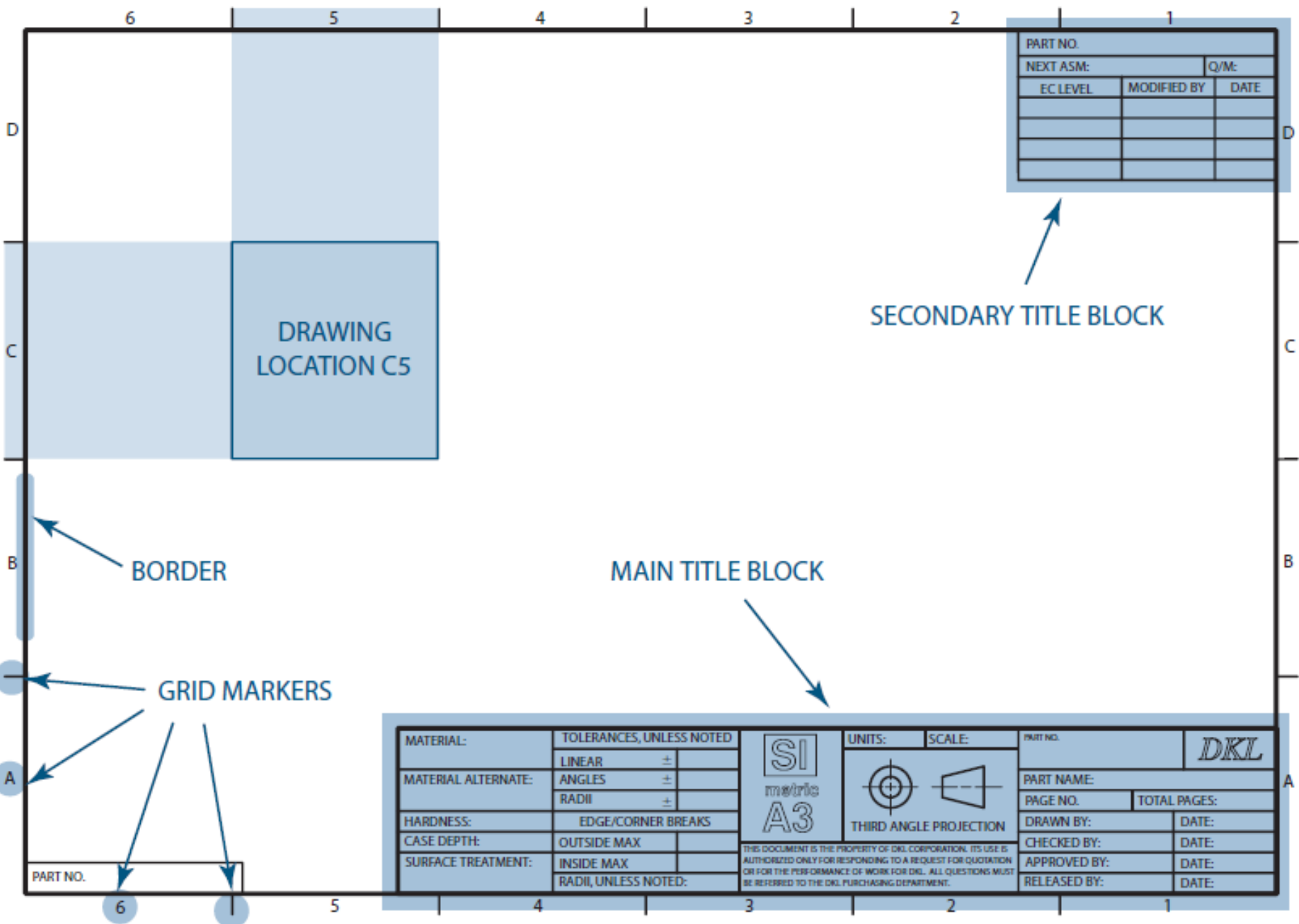
THIS DRAWING IS THE EXCLUSIVE PROPERTY OF ENDESIN CORPORATION AND ITS CUSTOMER AND MAY NOT BE REPRODUCED OR DISTRIBUTED IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF ENDESIN CORPORATION OR ITS CUSTOMER. THE INFORMATION HEREIN CONFORMS TO ASME Y14.5M-1994 ENDESIN CASE CODE 4MWB0 CUSTOMER CASE CODE 1233	MATERIAL Aluminum	CUSTOMER Customer		ENDESIN ELMA, NY WWW.ENDESIN.COM		
	SURFACE FINISH Anodize	CUSTOMER PROJECT NO. 1234				
	SURFACE FINISH 32	ENDESIN PROJECT NO. 1234		TITLE Endesin Drawing		
	UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES 3 PLACE DECIMAL: .005 2 PLACE DECIMAL: .010 1 PLACE DECIMAL: .030 DECIMALS: .1" CORNERS: FILLETS: .030	ENDESIN PART NO. 1234		CUSTOMER PART NO. 1234		
	DRAWN BY David Holland	DATE 2/4/2011	SIZE A	SCALE 1:1	SHEET 1 OF 2	INFO. ACQ. PROJ. REG. A

A

Cuadros de continuación (Cajetín secundario)

1. Escala
2. Sistema de unidades
3. Tamaño del formato
4. Nombre y número de parte
5. Material
6. Número de página / Total de páginas

	UNITS:	SCALE:	PART NO.	<i>DKL</i>
			PART NAME:	
	THIRD ANGLE PROJECTION		PAGE NO.	TOTAL PAGES:
			EC NUMBER:	



BORDER

GRID MARKERS

DRAWING
LOCATION C5

MAIN TITLE BLOCK

SECONDARY TITLE BLOCK

MATERIAL:		TOLERANCES, UNLESS NOTED			UNITS:	SCALE:	PART NO.			
MATERIAL ALTERNATE:		LINEAR ±				THIRD ANGLE PROJECTION	PART NAME:			
		ANGLES ±					PAGE NO. TOTAL PAGES:			
HARDNESS:		RADIO ±				DRAWN BY:		DATE:		
CASE DEPTH:		EDGE/CORNER BREAKS				CHECKED BY:		DATE:		
SURFACE TREATMENT:		OUTSIDE MAX				APPROVED BY:		DATE:		
		INSIDE MAX				RELEASED BY:		DATE:		
		RADIO, UNLESS NOTED:								

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PART NO.

Área de dibujo

<p style="font-size: 24px; color: #0056b3;">AREA FOR SHOWING VIEWS AND DIMENSIONS</p>		PART NO. Q/M:																	
		NEXT ASM: DATE:																	
		EC LEVEL	MODIFIED BY																
<p style="font-size: 18px; color: #0056b3;">AREA RESERVED FOR TEXT NOTES</p>																			
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Ejemplos de dibujos formales

