MARCAST
COMERCIALIZADORA SAS

MÍNIMA CUANTÍA DE INFRAESTRUCTURA SOCIAL

CERTIFICACIÓN DE CUMPLIMIENTO DE ESPECIFICACIONES TÉCNICAS

Señores

GRUPO INTENDENCIA REGIONAL CARIBE
Barrio el Bosque, sector Manzanillo Tv. 54 # 21 a – 15
Cartagena Bolívar COLOMBIA

REFERENCIA: Proceso de Contratación **MC-293-GINREDCA-2026**

Yo, **MARCO FERNANDO CASTILLO GALEANO**, identificado con cédula de ciudadanía **No. 11.204.228 de** Chía, en calidad de representante legal de **MARCAST COMERCIALIZADORA S.A.S.**, manifiesto bajo la gravedad de juramento que:

1. Hemos leído, entendido y aceptado en su totalidad el contenido del Anexo Técnico y las Especificaciones Técnicas Mínimas exigidas dentro del proceso de la referencia.
2. Nos comprometemos a cumplir integralmente con todas y cada una de las condiciones técnicas establecidas por la entidad, incluyendo, pero sin limitarse a:
    - Suministro de mobiliario conforme a las características exigidas.
    - Transporte, entrega, instalación, nivelación y puesta en funcionamiento.
    - Cumplimiento de normas técnicas aplicables (RETIE, BIFMA, ASTM, ANSI u otras que correspondan).
    - Garantía de calidad, estabilidad y correcto funcionamiento de los bienes suministrados.
3. Garantizamos que los bienes ofrecidos cumplen con los estándares de calidad, ergonomía, resistencia y durabilidad exigidos por la entidad.
4. Nos comprometemos a asumir todos los costos asociados al cumplimiento del objeto contractual, incluyendo mano de obra, herramientas, equipos, transporte y demás necesarios para la correcta ejecución del contrato.
5. Aceptamos que el incumplimiento de las especificaciones técnicas dará lugar a la aplicación de las sanciones establecidas en el contrato.

En constancia se firma en la ciudad de **Cota, Cundinamarca**, a los 18 días del mes de marzo de 2026.

FIRMA: 

MARCAST COMERCIALIZADORA SAS
NIT 900.925.044-9
Representante Legal: MARCO FERNANDO CASTILLO GALEANO
C.C. No. 11.204.228 de Chía Cundinamarca
CALLE 11 NO. 6 B-22 Cota - Cundinamarca
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TEST REPORT

On Behalf of

Prepared For :	**Euro Internacional S.A.S** Kr 34A 7-26, Bogotá, Colombia
Trade Mark :	**at work**
Product Name :	**3-962**
Model(s) :	**3023974, KTM-730-S**
Prepared By:	**Shenzhen CCT Testing Technology Co., Ltd.** 8th Floor, Area I, Building 1, Hanhaida Science and Technology Innovation Park, Guangming New District, Shenzhen, Guangdong, China Tel: 400-8788-298 Fax: +86 755-33609691 Email: cct@cct-prc.com Web: www.cct-prc.com
Test Date:	**Mar. 09, 2019 - Mar. 14, 2019**
Date of Report:	**Mar. 14, 2019**
Report No. :	**CCT19031101MRS**

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen CCT Testing Technology Co., Ltd.

TEST REPORT

EN1335-1: 2000
Office furniture - Office work chair - Part 1: Dimensions - Determination of dimensions
EN1335-2: 2009
Office furniture - Office work chair - Part 2: Safety requirements
EN1335-3: 2009
Office furniture - Office work chair - Part 3: Test methods

Reference No. ..... :	CCT19031101MRS
Date of issue..... :	Mar. 14, 2019
Contents ..... :	9 pages including the attachments
Testing laboratory	
Name..... :	Shenzhen CCT Testing Technology Co., Ltd..
Address ..... :	8th Floor, Area I, Building 1, Hanhaida Science and Technology Innovation Park, Guangming New District, Shenzhen, Guangdong, China
Testing location ..... :	Same as above
Client	
Name……:	Euro Internacional Sas
Address ……:	Kr 34a 7-26 Bogotá, Colombia
Test specification	
Standard..... :	EN1335-1: 2000&EN1335-2: 2009&EN1335-3: 2009
Test procedure ..... :	GPSD
Procedure deviation..... :	N.A.
Non-standard test method..... :	N.A.
Test item	
Description……:	OFFICE CHAIR
Trademark……..:	N/A
Model and/or type reference..……:	3023974, KTM-311-1
Manufacturer ..... :	Guangzhou Cantorman Furniture Co., Ltd
Address ..... ……:	The 1st floor The 8th Building, Weijian Industrial Estate, No 291, Dayu Road,Dongchong Town, Nansha district , Guangzhou

Test Result

Test Standards	Conclusion
EN1335-1: 2000 Office furniture - Office work chair - Part 1: Dimensions - Determination of dimensions	P
EN1335-2: 2009 Office furniture - Office work chair - Part 2: Safety requirements	P
EN1335-3: 2009 Office furniture - Office work chair - Part 3: Test methods	P

REMARKS:

1. This statement is based upon the testing of the submitted samples. It is incumbent on the manufacturer to assure the constant quality of the product.
2. The test report is valid for above tested sample only and shall not be reproduced In part without written approval of the company.
3. Characterization & Condition of sample: Normal.
4. Ambient Condition During Testing:(15~22)℃,(25~50)％RH.

Signed for and on behalf of CCT

Tested By: Mark **Examine By :** Irence

Approved By: **Date:** Mar. 14, 2019

Lab Manager : Toby

TESTS CONDUCTED:

Clause	Requirement – Test	Result - Remark	Verdict
EN 1335-1: Determination of dimensions			---
4	**Dimensions**		
	Provided sufficient height and depth to provided all users with a sitting position suited to their activity and their height	For the values of the test referred to Table 1	P
EN1335-2: Safety requirements			
4	Safety requirements		P
4.1	Corners and edges, trapping, pinching and shearing		P
	The chair shall be so designed as to minimise the risk of injury to the user. These requirements are met when:	Complied, no hazards to user	P
	a) the safety distance of accessible movable parts is either ≤ 8 mm or ≥ 25 mm in any position during movement;	≤ 8 mm and ≥ 25 mm	P
	b) accessible corners are rounded with minimum 2 mm radius;	>2 mm radius	P
	c) the edges of the seat, back rest and arm rests which are in contact with the user when sitting in the chair are rounded with minimum 2 mm radius;	>2 mm radius	P
	d) the edges of handles are rounded with minimum 2 mm radius in the direction of the force applied;	>2 mm radius	P
	e) all other edges are free from burrs and rounded or chamfered;	Smooth edges, no hazards	P
	f) the ends of accessible hollow components are closed or capped.	Closed /capped	P
4.1.2	Adjusting devices		P
	Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.	Considered, no hazards to adjusting	P
	It shall be possible to operate the adjusting devices from sitting position in the chair	Sitting adjusting is allowed	P
4.1.3	Connections		P
	It shall not be possible for any load bearing part of the chair to come loose unintentionally.	No moved for load bearing part	P
4.1.4	Avoidance of soiling		P
	All parts which are lubricated to assist sliding (greasing, lubricating, etc.) shall be designed to protect users from lubricant stains when in normal use.	Considered, no any lubricant stains can be contacted	P
4.2	Test sequence	Considered, see bellow tests	P
	The same chair shall be tested the following sequence:		P
	a) stability tests (optional);		P
	b) rolling resistance test (optional);		N
	seat and back rest tests;		P
	d) foot rest static load test;		N
	e) arm rests durability test;		P
	f) arm rest downward static load test - central (see Table A.2, Footnote a);		P
	g) stability tests;		P
	h) arm rest downward static load test - central (see Table A.2, Footnote b);		P
	i) rolling resistance test.		P
4.3	Stability during use		P

Clause	Requirement – Test	Result - Remark	Verdict
EN 1335-1: Determination of dimensions			---
4	**Dimensions**		
	Provided sufficient height and depth to provided all users with a sitting position suited to their activity and their height	For the values of the test referred to Table 1	P
	The chair shall not overbalance under the following conditions:	See attachment tables of tests	P
	a) by pressing down on the front edge of the seat surface in the most adverse position;	No overbalance	P
	b) by leaning out over the arm rests;	No overbalance	P
	c) by leaning against the back rest;	No overbalance	P
	d) by sitting on the front edge.	No overbalance	P
4.4	Rolling resistance of the unloaded chair	See attachment tables of tests	P
	The unloaded chair shall not roll unintentionally.		P
	This requirement is met when		P
	a) the castors are of identical construction;		P
	b) the rolling resistance is ≥ 12 N when tested according to EN 1335-3:2009, 7.4.	≥12N	P
4.5	Strength and durability		P
	The chair shall be constructed to ensure that it does not create a risk of injury to the user of the chair under the following conditions:		P
	a) sitting on the seat, both centrally and off-centre;	No risk of injury to the user	P
	b) moving forward, backwards, and sideways while sitting in the chair;	No risk of injury to the user	P
	c) leaning over the arm rests;	No risk of injury to the user	P
	d) pressing down on the arm rests while getting up from the chair.	No risk of injury to the user	P
	e) there are no fractures of any member, joint or component, and	No fractures of any member, joint or component	P
	f) there is no loosening of joints intended to be rigid, and	no loosening of joints intended to be rigid	P
	g) no major structural element is significantly deformed and the chair fulfils its functions after removal of the test loads		P
	and when: h) after the test in 7.2.3 of EN 1335-3:2009 with the forces and numbers of cycles according to Table A.2 of this standard, the arm rests show no fracture.		P
5	Information for use		P
	Each chair shall be accompanied by information for use in the language of the country in which it will be delivered to the end user. It shall contain at least the following details:	English used	P
	a) information regarding the intended use;	Computer chair	P
	b) information regarding possible adjustments and chair type (see EN 1335-1:2000);	See above	P
	c) instruction for operating the adjusting mechanisms;	See user manual	P
	d) instruction for the care and maintenance of the chair;	See user manual	P

Clause	Requirement – Test	Result - Remark	Verdict
EN 1335-1: Determination of dimensions			---
4	**Dimensions**		
	Provided sufficient height and depth to provided all users with a sitting position suited to their activity and their height	For the values of the test referred to Table 1	P
	e) information regarding all adjustments;	See user manual	P
	f) information for chairs with seat height adjustments with energy accumulators that only trained personnel may replace or repair seat height adjustment components with energy accumulators;	No such components	P
	g) informationon the choice of castors in relation to the floor surface.	Clearly marked in user manual	P
EN 1335- 3: Test methods			
4	Preliminary preparation		P
	The unit shall be assembled and/or configured according to the instructions supplied with it.	Complied, All tests were performed on standard terms	P
4.2	Test equipment		P
	Unless otherwise specified, the tests may be applied by any suitable device because results are dependent	Complied, suitable devices were used	P
4.3	Application of forces		P
	The forces in the static load tests shall be applied sufficiently slowly to ensure that negligible dynamic force is applied.	Considered	P
4.4	Tolerances		P
	Tolerances shall be applicable:	Forces: ± 5 % Masses: ± 1 % Dimensions: ± 5 mm Dimension on soft surfaces ± 1 mm All other surfaces Angles: ± 2° Positioning ± 5 mm	P
4.5	Sequence of testing		P
	All applicable tests shall be carried out on the same sample.	The same sample used	P
	The sequence of the safety tests shall be as specified in EN 1335-2:2009, 4.2.	Complied with the sequence	P
4.6	Inspection and assessment of results	Complied, see bellow tests	P
	After completion of each test, inspect the unit again. Record any changes including:		P
	a) fracture of any component or joint;		P
	b) loosening of any joint intended to be rigid, which can be demonstrated by hand pressure;		P
	c) deformation or wear of any part or component such that its function is impaired;		P
	d) loosening of any means of fixing components to the unit;		P
	e) changes that may affect stability.		P

Note: P means meet the requirement, N/A means not applicable, F means does not meet the requirement.

ATTACHMENT (I): TABLES

Table 1: Determination of dimensions				
Symb	Description	Requirement according to EN 1335 for Type C	Measure value	Verdict
Seat				
a	Seat height	Adjustable:min.420 or less Max.510mm or more Adjustment range: min.80mm	420 mm 510mm 90mm	P
b	Seat depth	No adjustable: min. 380 Adjustable:min.400	500mm n. a.	P
c	Depth of seat surface	Min. 380mm	510mm	P
d	Seat width	Min.400mm	480mm	P
e	Inclination of the seat surface	No adjustable: -2° to -7° Adjustable: -2° to -7°	-3.1° n. a.	P
Back rest				
f	Height of the back supporting point “S” above surface	No adjustable: min.170-220mm Adjustable: No	200mm n. a.	P
g	Height of the back pad -adjustable in height -non-adjustable in height	 Min. 220mm Min. 260mm	 n. a. 580mm	P
h	Height of the upper edge of the back rest above the seat surface	Min. 360mm	540mm	P
i	Back rest width	Min. 360mm	440mm	P
k	Horizontal radius of bake rest	Min. 400mm	470mm	P
l	Back rest inclination adjustment	No Requirement	n. a.	P
Arm rest				
n	Length of the useful arm rest	Min. 200mm	230mm	P
o	Width of the useful area of the arm rest	Min. 40mm	75mm	P
P	Height of the useful area of the arm rest above the seat	Non adjustable 200-250mm Adjustable 200mm or less 250mm or more	n. a 190-265	P
q	Distance from the front of the arm rest to the seat	Min.100mm	170mm	P
r	Clear width between the useful area of the rests	Min.460	470mm	P
Underframe				
s	Maximum offset of the underframe	X^g+50	300mm	P
t	Stability dimension	Min.195mm	380mm	P

ATTACHMENT: REAL PHOTOS OF EUT

Photo. 1



GUANGZHOU CANTORMAN FURNITURE CO., LTD
NO.1 SHOUTH ROW, SHITOU DONGXIAN INDUSTRIAL ESTATE,
NANCUN TOWN, PANYU, GUANGZHOU, CHINA

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description	: OFFICE CHAIR KTM-203
Buyer Item No.	: 003-1615
Receiving Date	: Dec.15, 2016
Sample Resubmission Date	: Jan.22, 2017
Test Performing Date	: Dec.15, 2016 to Jan.26, 2017

Test Result Summary

Test(s) Requested	Result(s)
ANSI/BIFMA X5.1:2011 (Type I, III)	PASS

Summary:

1. For further details, please refer to the following page(s).

Signed for and on behalf of
Shunde Branch
SGS-CSTC Co., Ltd.

Bill Wang
Approved signatory

SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

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TESTS AND RESULTS

Test Conducted:
ANSI/BIFMA X5.1:2011 General-Purpose Office Chairs – Tests.

No. of Sample:
5 piece(s) (Sample 1, 2, 3, 4, & 5 + additional bases, casters). For more sample information and pictures, please refer to the following page.

Chair Type: Type I, III.

Test and Requirements	Test Results
Safety, Durability and Structural Adequacy	
5 Backrest Strength Test - Static - Type I	
5.4.1 Functional Load There shall be no loss of serviceability to the chair when 890 N (200 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest.	PASS
5.4.2 Proof Load There shall be no sudden and major change in the structural integrity of the chair, loss of serviceability is acceptable, when 1334 N (300 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest.	PASS
6 Backrest Strength Test - Static - Type II & III	
6.4.1 Functional Load There shall be no loss of serviceability to the chair when 667 N (150 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest.	PASS
6.4.2 Proof Load There shall be no sudden and major change in the structural integrity of the chair, loss of serviceability is acceptable, when 1112 N (250 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest.	PASS
7 Base Test – Static There shall be no sudden and major change in the structural integrity of the base. The center column may not touch the test platform during the load applications when a force of 11,120 N (2500 lbf.) is applied to the vertical support column, or test fixture that simulates the taper/base interface for one (1) minute. Remove the force, and then apply a second force of 11,120 N (2500 lbf.) for one (1) minute.	PASS

SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch Hardware
检验检测专用章 Inspection & Testing Services

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中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com
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Test and Requirements	Test Results
8 Drop Test - Dynamic	
8.4.1 Functional Load Test There shall be no loss of serviceability when a test bag weighing 102 kg (225 lb.) is free fell from152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.	PASS
8.4.2 Proof Load Test There shall be no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable when a test bag weighing 136 kg (300 lb.) is free fell from152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.	PASS
9 Swivel Test – Cyclic There shall be no loss of serviceability after 60,000cycles of rotation (360°) at a rate between 5 and 15 rotations per minute under a 113 kg (250 lb.) load on the seat. If the seat height is adjustable set the height to its lowest position, for all chairs, continue the test for an additional 60,000 cycles to a total of 120,000 cycles.	PASS
10 Tilt Mechanism Test – Cyclic There shall be no loss of serviceability to the tilt mechanism after 300,000cycles at a rate between 10 and 30 cycles per minute under a 102kg (225lbs.) load to the center of the seat. *Note: This test shall be performed on Type I and Type II chairs with tilting backrests.*	PASS
11 Seating Durability Tests – Cyclic	
11.3 Impact Test There shall be no loss of serviceability to the chair after a test bag weighing 57kg (125lbs.) is free fell from 30 mm (1.2 in.) above the uncompressed seat to the specified position on seat for 100,000 cycles. The drop height and/or seat height shall be adjusted during the test if the drop height changes by more than 13 mm (0.5 in.). The cycling device shall be set at a rate between 10 and 30 cycles per minute. *Note: Chairs with less than 44 mm (1.75 in.) of cushioning materials in the seat shall have foam added to bring total cushioning thickness to 50 mm ± 6 mm (2 in. ± 0.25 in.). Any additional foam added to the top of the seat shall have a 25% Indentation Force Deflection (IFD) of 200 N ± 22 N (45 lbf. ± 5 lbf.). Flexible seat surfaces (i.e., mesh, flexible plastic, etc.) are not considered cushioning materials.*	PASS
11.4 Front Corner Load-Ease Test – Cyclic – Off-center After completing the impact test, alternately apply a load of 734 N (165 lbf.) through a 203 mm ± 13 mm (8 in. ± 0.51 in.) diameter loading device at one front corner flush to each structural edge at a rate of 10 to 30 cycles per minute for 20,000 cycles. There shall be no loss of serviceability to the chair.	PASS
12 Stability Tests	

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Test and Requirements	Test Results
12.3.1 Rear Stability Test for Type III Chairs Place a support fixture made of a 1.5 mm ± 0.4 mm (0.060 in. ± 0.015 in.) thick polypropylene, 356 mm (14 in.) wide and 711 mm (28 in.) tall against the chair back so that it approximates the contour of the back. Load the chair with 6 disks (10 kg each). Place the first disk on the seat so it touches the support fixture. As each disk is added to the stack slide it along the lower disk until it contacts the support fixture. Apply a horizontal force to the highest disk. The location of the force application is 6 mm (0.25 in.) from the top of the disk. For chairs with seat height (as measured at the front of the bottom of the lowest disk when all disks are in the chair) less than 710 mm (28.0 in.), calculate the force as follows: • F = 0.1964 (1195 – H) Newton. H is the seat height in mm. • [F = 1.1 (47 – H) pounds force.]. H is the seat height in inches. For chairs with seat height equal to or greater than 710 mm (28.0 in.), a fixed force of 93 N (20.9 lbf.) shall be applied. The chair shall not tip over.	PASS
12.3.2 Rear Stability Test for Type I and II Chairs Place a support fixture made of a 1.5 mm ± 0.4 mm (0.060 in. ± 0.015 in.) thick polypropylene, 356 mm (14 in.) wide and 711 mm (28 in.) tall against the chair back so that it approximates the contour of the back. Load the chair with 13 disks. Place the first disk on the seat so it touches the support fixture. As each disk is added to the stack slide it along the lower disk until it contacts the support fixture. If the chair does not tip over and the tilt mechanism does not tilt to its most rearward position (i.e., at its tilt stop) when the disks are placed in the chair, the chair shall also be tested according to 12.3.1 with the chair in the unlocked position. The chair shall not tip over.	PASS
12.4 Front Stability Test Procedure - Alternative A (This alternative may only be used on chairs that do not have a seat surface that will support the stability loading fixture (i.e., mesh, web or strap seat support surfaces)) Apply a vertical load of 600 N (135 lbf.), through a 200 mm (7.87 in.) diameter disk, the center of which is 60 mm (2.4 in.) from the front center edge of the load-bearing surface of the seat. Apply a horizontal force of 20 N (4.5 lbf.) at the same level of the plane of the top of the seat. The force shall be coincident with the side-to-side centerline of the seat. Test Procedure - Alternative B Apply a vertical load of 600 N (135 lbf.), by means of the front stability loading fixture at a point 60 mm (2.4 in.) from the front center edge of the load-bearing surface of the chair. Apply a horizontal force of 20 N (4.5 lbf.) at the same level of the plane of the top of the seat. The force shall be coincident with the side-to-side centerline of the seat. The chair shall not tip over as the result of the force application.	PASS
13 Arm Strength Test - Vertical - Static	

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Test and Requirements	Test Results
13.4.1 Functional Load Apply an initially vertical pull force of 750N (169lbs.) to the load adapter which is 127 mm (5 in.) long and at least as wide as the width of the arm shall be attached to the top of the arm rest structure such that the load will be applied at the apparent weakest point that is forward of the chair backrest, for one (1) minute. There shall be no loss of serviceability. For a height adjustable arm, failure to hold its height adjustment position to within 6 mm (0.25 in.) from its original set position as the result of the loading is considered a loss of serviceability.	PASS
13.4.2 Proof Load Apply an initially vertical pull force of 1125N (253 lbs.) to the load adapter which is 127 mm (5 in.) long and at least as wide as the width of the arm shall be attached to the top of the arm rest structure such that the load will be applied at the apparent weakest point that is forward of the chair backrest, for one (1) minute. There shall be no sudden and major change in the structural integrity of the chair. For a height adjustable arm, a sudden drop in height of greater than 25 mm (1 in.) does not meet this requirement. Loss of serviceability is acceptable.	PASS
14 Arm Strength Test - Horizontal - Static	
14.4.1 Functional Load Apply an initially horizontal pull force of 445 N (100 lbf.) to the load adapter which is a loading device or strap, not greater than 25 mm (1 in.) in horizontal width, shall be attached to the arm so that the load is initially applied horizontally to the armrest structure at the apparent weakest point (for armrests that pivot in the horizontal plane, apply the load at the pivot point), for one (1) minute in the outward direction. A functional load applied once shall cause no loss of serviceability.	PASS
14.4.2 Proof Load Apply an initially horizontal pull force of 667 N (150 lbf.) to the load adapter which is a loading device or strap, not greater than 25 mm (1 in.) in horizontal width, shall be attached to the arm so that the load is initially applied horizontally to the armrest structure at the apparent weakest point (for armrests that pivot in the horizontal plane, apply the load at the pivot point), for one (1) minute in the outward direction. A proof load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.	PASS
15 Backrest Durability Test - Cyclic - Type I A weight of 102 kg (225 lb.) shall be secured in the center of the seat. Apply a 445 N (100 lbf.) total force to the backrest at the specified position at a rate between 10 and 30 cycles per minute. For chairs with backrest widths less than or equal to 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 120,000 cycles. For chairs with backrest widths greater than 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 80,000 cycles + 20,000 cycles at the position 102 mm (4 in.) to the right of the vertical centerline + 20,000 cycles at the position 102 mm (4 in.) to the left of the vertical centerline.. There shall be no loss of serviceability. *Note: With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest.*	PASS

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Test and Requirements	Test Results
16 Backrest Durability Test - Cyclic - Type II and III A weight of 102 kg (225 lb.) shall be secured in the center of the seat. Apply a 334 N (75 lbf.) total force to the backrest at the specified position at a rate between 10 and 30 cycles per minute. For chairs with backrest widths less than or equal to 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 120,000 cycles. For chairs with backrest widths greater than 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 80,000 cycles + 20,000 cycles at the position 102 mm (4 in.) to the right of the vertical centerline + 20,000 cycles at the position 102 mm (4 in.) to the left of the vertical centerline. There shall be no loss of serviceability. *Note: With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest.*	PASS
17 Caster/Chair Base Durability Test - Cyclic	
17.1 Caster/Chair Base Durability Test for Pedestal Base Chairs No loss of service after 2,000cycles over a hard surface with 3 obstacles and 98, 000cycles over a smooth hard surface without obstacles under a 113kg (250lbs.) load at a rate of 10 ± 2 cycles per minute. Test stroke is 762mm (30in.) minimum. The caster should not separate under 22N (5lbs.) pulling force in line with the caster stem after the cycling test.	PASS
17.2 Caster / Chair Base Durability Test for Chairs with Legs No loss of service after 2,000cycles over a hard surface with 2 obstacles and 98, 000cycles over a smooth hard surface without obstacles under a 113 kg (250 lb.) load on the seat at a rate of 10 ± 2 cycles per minute. Test stroke is 762mm (30in.) minimum. The caster should not separate under 22N (5lbs.) pulling force in line with the caster stem after the cycling test.	N/A
18 Leg Strength Test - Front and Side Application	
18.3.2.1 Front Load Test- Functional Test The loading device shall be attached to the chair so that an initially horizontal force is applied inward and parallel to the front-to-rear axis of the chair, between 13 mm (0.5 in.) and 38 mm (1.5 in.) from the bottom of a leg. A force of 334N (75lbf.) is applied to each front leg individually for 1 minute. Functional load(s) applied once in each direction shall cause no loss of serviceability. *Note: For chairs with casters, apply the load to the chair leg, but not more than 13 mm (0.5 in.) from the point of caster attachment (bottom of the leg). The load shall be applied to the apparent weakest point of the leg. Where the apparent weakest point is the left or right edge of the leg, apply the load so that it is no greater than 25 mm (1.0 in.) from the edge.*	N/A

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Test and Requirements	Test Results
18.3.2.2 Front Load Test- Proof Test The loading device shall be attached to the chair so that an initially horizontal force is applied inward and parallel to the front-to-rear axis of the chair, between 13 mm (0.5 in.) and 38 mm (1.5 in.) from the bottom of a leg. A force of 503N (113 lbf.) is applied to each front leg individually for 1 minute. Proof load(s) applied once each direction shall cause no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable. *Note: For chairs with casters, apply the load to the chair leg, but not more than 13 mm (0.5 in.) from the point of caster attachment (bottom of the leg). The load shall be applied to the apparent weakest point of the leg. Where the apparent weakest point is the left or right edge of the leg, apply the load so that it is no greater than 25 mm (1.0 in.) from the edge.*	N/A
18.4.2.1 Side Load Test- Functional Test The loading device shall be attached to the chair so that an initially horizontal force is applied inward and parallel to the front-to-rear axis of the chair, between 13 mm (0.5 in.) and 38 mm (1.5 in.) from the bottom of a leg. A force of 334N (75lbf.) is applied to each front and rear leg individually for 1 minute. Functional load(s) applied once in each direction shall cause no loss of serviceability. *Note: For chairs with casters, apply the load to the chair leg, but not more than 13 mm (0.5 in.) from the point of caster attachment (bottom of the leg). The load shall be applied to the apparent weakest point of the leg. Where the apparent weakest point is the left or right edge of the leg, apply the load so that it is no greater than 25 mm (1.0 in.) from the edge.*	N/A
18.4.2.2 Side Load Test- Proof Test The loading device shall be attached to the chair so that an initially horizontal force is applied inward and parallel to the front-to-rear axis of the chair, between 13 mm (0.5 in.) and 38 mm (1.5 in.) from the bottom of a leg. A force of 503N (113 lbf.) is applied to each front and rear leg individually for 1 minute. Proof load(s) applied once each direction shall cause no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable. *Note: For chairs with casters, apply the load to the chair leg, but not more than 13 mm (0.5 in.) from the point of caster attachment (bottom of the leg). The load shall be applied to the apparent weakest point of the leg. Where the apparent weakest point is the left or right edge of the leg, apply the load so that it is no greater than 25 mm (1.0 in.) from the edge.*	N/A
19 Footrest Static Load Test - Vertical	

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Test and Requirements	Test Results
19.4.1 Functional Load Apply a force F1 of 445 N (100 lbf.) uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction. If the footrest adjusts in height relative to the seat and allows for a force application 180 degrees (on the opposite side of the chair) from the primary force application, maintain force F1 and apply an additional force F2 of 445 N (100 lbf.) to the footrest at the opposing position for an additional one (1) minute. The F2 force shall also be applied uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge. If applicable, remove force F2, increase the force F1 to 200 lbf. for one (1) minute. There shall be no loss of serviceability or sudden loss of footrest height.	N/A
19.4.3 Proof Load Apply a force of 1334 N (300 lbf.) uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction. The load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.	N/A
20 Footrest Durability Test - Vertical – Cyclic A 890 N (200-lbf.) force shall be applied uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure. When the weakest position is not obvious, several load application positions may be necessary to properly test the product. If the footrest moves more than 25 mm (1 in.) within the first 500 cycles, discontinue testing. If the footrest moves throughout the remainder of the test, reset it to its original position when it is within 12 mm (0.5 in.) from its lowest position. The force shall be applied and removed 50,000 cycles at a rate between 10 and 30 cycles per minute. There shall be no loss of serviceability. Adjustable footrests that move more than 25 mm (1 in.) in the first 500 cycles shall be considered to have lost their serviceability.	N/A
21 Arm Durability Test – Cyclic Simultaneously apply a force of 400 N (90 lbf.) to each arm initially at a 10 degrees ± 1 degree angle. The arm loading device must follow the arm as it deflects or pivots. The force shall be applied and removed for 60,000 cycles at a rate between 10 and 30 cycles per minute. The arm loading device should distribute the load over a length of 100 mm (4 in.) on the arm pad. Center of load shall not be applied more than 25 mm (1.0 in.) in from the inside edge of the arm pad. There shall be no loss of serviceability to the chair.	PASS

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Test and Requirements	Test Results
22 Out Stop Tests for Chairs with Manually Adjustable Seat Depth A stranded metallic cable or equivalent shall be attached to the most rigid point of the vertical centerline of the seat. The opposite end of the cable shall extend in line forward from the seat and in line with the plane of the seat movement to a pulley and then downward to an attached weight of 25 kg (55 lb.). Place the seat in its most rearward position and restrain. Place a 74 kg (163 lb.) rigid mass in the center of the seat. The seat with the hanging weight shall be held at its most rearward position, then released, permitting it to move forward rapidly and impact the out stops. Repeat this procedure for a total of 25 cycles. There shall be no loss of serviceability to the unit.	N/A
23 Tablet Arm Chair Static Load Test Apply the load through a 203 mm ± 13 mm (8.0 in. ± 0.51 in.) diameter area 25 mm (1 in.) from the edge of the surface at its apparent weakest point. Apply a load of 68 kg. (150 lb.) at the location described in 23.2 b) for one (1) minute and remove the load. The load applied once shall cause no sudden and major change in the structural integrity of the chair. After performing the test, the tablet arm must allow egress from the unit; other losses of serviceability are acceptable.	N/A
24 Tablet Arm Chair Load Ease Test – Cyclic A 343 N (77 lbf.) force applied through a 203 mm ± 13 mm (8.0 in. ± 0.51 in.) diameter area centered on the writing area of the tablet, for a total of 100,000 cycles. The cycling device shall be set to operate at a rate of 14 ± 6 cycles per minute. There shall be no loss of serviceability to the chair and/or tablet arm.	N/A

Remark:

1. N/A – Not applicable; N/R – Not Requested; N/P – Not provided.
2. For the sample information and pictures, please refer to the following page.
3. This test report is to supersede No. SDHL1612025225FT test report which was issued on Jan.26, 2017. And the original test reports (paper and electronic) are invalid.

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SAMPLE INFORMATION AND PICTURES

Weight: 12.85 kg

Overall Dimensions: 660 mm L x 680 mm W x 944~1017 mm H

Other Dimensions: Base radius, 325 mm; base weight, 1.70 kg.

Sample as Received



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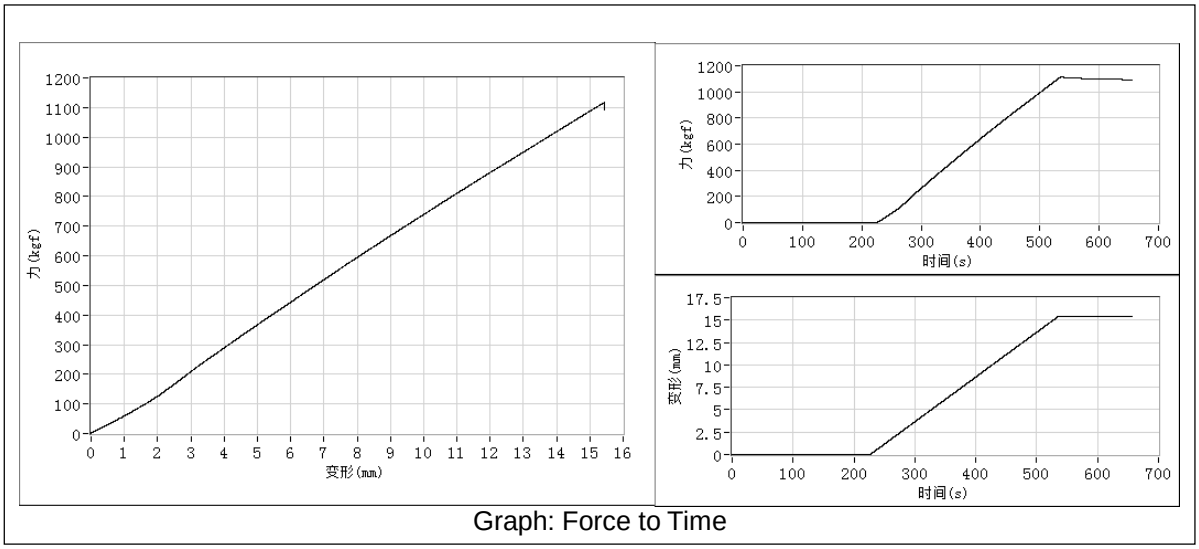
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Test Pictures with Details



Graph: Force to Time

End of Report

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12.1. ANEXO
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ESPECIFICACIONES TÉCNICAS			
ÍTEM	DESCRIPCIÓN	UNIDAD DE MEDIDA	CANTIDAD
1	**SILLA INTERLOCUTORA.** Silla para visitantes oficina del director. Altura total900 mm, ancho 560 mm, profundidad 600 mm; respaldo bajo, apoya brazos fijos, estructura de 4 patas. Asiento y respaldo en espuma moldeada de alta densidad recubrimiento en tela gris, superficie de melanina, cilindro Xiequiang (65/70), clase 3, base 4 estrellas; 315 mm con recubrimiento en polvo. estructura metálica tubular cromada, patas con regatones antideslizantes	UNIDAD	2
2	**SILLA DIRECTOR. Silla giratoria:** con brazos - soporte lumbar y cabecero. Asiento interno en madera laminada contrachapada - Espuma asiento poliuretano inyectado, densidad 50-60. Espaldar en malla autoportante en poliéster. Cobertor asiento: polipropileno inyectado. Estructura espaldar y base en nylon. Apoyo lumbar: Espuma de poliuretano. Apoyabrazos regulable en altura: Pad en poliuretano 3D regulables en altura (9 posiciones) y 7 posiciones de movimiento de adelante y atrás, y 4 posiciones de ajuste lateral. Mecanismo slider 6 puntos de bloqueo, regular 22° y ajuste de tensión. Rodachinas en nylon para piso duro de 60mm. CERTIFICACION ANSI/BIFMA.	UNIDAD	4
3	**SILLA AYUDANTÍA ALTA.** Silla ESPALDAR ALTO Reposacabezas: Tela negra Espaldar con apoyo lumbar: Malla negra; altura ajustable Asiento con slider; Espuma moldeada; Tela negra Brazos: almohadilla de PU, función 3D Mecanismo: Synchron Mechanism F135B5-5 Cilindro: Xieqiang gas lift 80/30, Grade 3 Base: Aluminio Ruedas: PU negras (65/25). CERTIFICACION ANSI/BIFMA.	UNIDAD	3
4	**SILLA SALA DE JUNTAS.** Silla para sala de juntas con altura 950 mm, ancho 500 mm, profundidad 550 mm, con cabecero, asiento interno fabricado en madera moldeada slider incorporado, espuma inyectada al asiento, respaldo medio, apoya brazos fijos, ruedas giratorias, altura regulable, 3 puntos de bloqueo perilla ajustable de tensión de inclinación, espuma de alta densidad, base de 5 apoyos metálica cromada. CERTIFICACION ANSI/BIFMA.	UNIDAD	8
5	**MESA SALA DE JUNTAS.** Mesa para reuniones 3 m largo × 1.2 m ancho × 0.75 m altura; capacidad para 10 personas. Madera aglomerada con laminado imitación madera clara, estructura metálica gris. Especificaciones Técnicas: Superficie: Tablex de 25mm enchapado en fórmica; cubre canto en PVC de 2mm de vidrio (FV). Viga: Tubo CR cuadrado de Ø1-1/2 cal 16. Base: Tubería 60x25 trapezoidal cal 18; Tubo CR cuadrado de Ø1-1/2 cal 18; platina acero 1/8x1 en y ángulo 1/8 x1-1/2 in. Base pata media + bajante: Tubería 2x1 in rectangular cal 18; Tubo CR cuadrado de Ø1-1/2 cal 18; platina acero 1/8x1 in, ángulo 1/8 x1-1/2 in y lámina CR. cal 20 y 22. Electrificación: Sistema de cableado eléctrico: Sistema de cableado eléctrico fabricado en lámina CR. cal. 18, 20 y 22. Canaleta conexión lateral hasta pared: Sistema de cableado eléctrico fabricado en lámina CR. Cal. 18, 20 y 22. Vertebra y tapa pasacables joye doble. Certificado RETIE para canaletas, bajantes, ductos y canalizaciones de las lineas Fit rt, surf, mesas de juntas y productos especiales.	UNIDAD	1
6	**MESA DE CENTRO.** Configuración Mesa auxiliar Ovalada 3 tamaños, Superficie tablex 18mm, laminado en alta presión y cubrecanto en PVC de2mm, estructura en tubo C.R 5/8"C-18 y lámina CR C-14, niveladores en polipropileno. Mesa baja: h: 0.356m ancho: 0.613m x largo: 0.435m - Mesa mediana: h:0.406m ancho: 0.969 x largo: 0.663m – Mesa alta: h: 0.456m ancho: 0.735m largo: 0.502m	UNIDAD	1
7	**SOFÁ DE DOS PUESTOS.** Sofá de 1.60 m largo × 0.85 m profundidad × 0.80m alto. Estructura de madera, asiento tablex x25mm, enchapada en fórmica FB y cubrecanto pvc de 2mm, espuma laminada densidad 26, espaldar forro en tela relleno en fibra siliconado, brazos construcción interna en madera tablex y mdf con recubrimiento en espuma laminada 26 y 40, estructura tubería 1x2" calibre 16 y patas en tubo redondo 1 1/8" calibre 14 y topones polipropileno color negro tapizado tela gris neutra, patas metálicas negras.	UNIDAD	2
8	**SOFÁ DE UN PUESTO.** Sofá de 0.90 m ancho × 0.85 m profundidad × 0.80 m alto. Estructura de madera, asiento tablex x25mm, enchapada en fórmica FB y cubrecanto pvc de 2mm, espuma laminada densidad 26, espaldar forro en tela relleno en fibra siliconado, brazos construcción interna en madera tablex y mdf con recubrimiento en espuma laminada 26 y 40, estructura tubería 1x2" calibre 16 y patas en tubo redondo 1 1/8" calibre 14 y topones polipropileno color negro tapizado tela gris neutra, patas metálicas negras	UNIDAD	1
9	**Biblioteca para libros** fabricada en melamina de 18 mm, medidas de 1,50 m de largo, 2,00 m de alto y 0,40 m de ancho. diseñada para ofrecer resistencia, estabilidad y una presentación moderna. Incorpora cuatro entrepaños que conforman cinco espacios de almacenamiento, ideales para organizar libros, decoraciones u otros objetos	UNIDAD	1
10	**Mueble guardarropas** fabricado en melamina de 15 mm, diseñado para brindar funcionalidad y durabilidad. Presenta medidas de 1,50 m de largo, 2,00 m de alto y 0,60 m de ancho, ofreciendo un espacio óptimo para organizar prendas y accesorios. Cuenta con tres cajoneras, dos puertas de fácil	UNIDAD	1

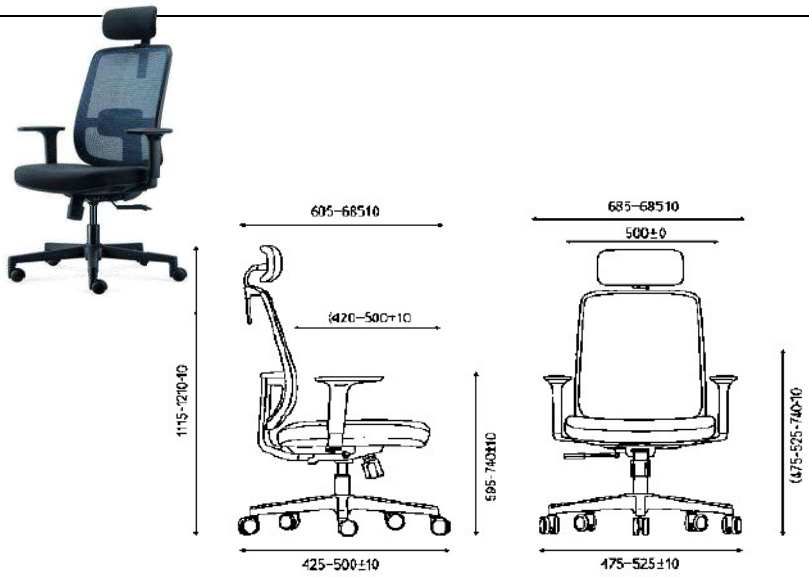
	apertura y un amplio espacio para colgar la ropa, proporcionando una solución completa y práctica para el almacenamiento. Su estructura robusta y su acabado en melamina garantizan resistencia al uso diario y una apariencia moderna que se adapta a cualquier ambiente		
11	**ESCRITORIO DIRECTOR.** PUESTO DE TRABAJO incluye: SUPERFICIE PUESTO DE TRABAJO DE 2400 (2.40x0.80x0.72), 30 MM EN FORMICA Y REMATES EN VIDRIO TEMPLADO 10+10. Almacenamiento retorno 1800 (1.80x0.48x0.58) CON ELECTRICACIÓN, acabados en formica de línea. INCLUYE MUEBLE CREDENZA DE 3600 (2 unds de 1.80X0.48X0.70)	GLOBAL	1
12	**ESCRITORIO AYUDANTÍA.** PUESTO COORDINADOR Superficies: Superficie de trabajo 1.80 (1.80 x0.80x0.72) Espesor 30 mm, base tubular en acero cromado 7 mm, niveladores antideslizantes, soportes en tablero aglomerado, en color brown oak. Almacenamiento retorno 1800 (1.80X0.48X0.58) CON ELECTRICACIÓN, acabados en formica de línea. Mueble auxiliar tipo ¨credenza¨ (1.40X0.84X0.71) en Supercor y/o laminado decorativo de alta presión F-8, cantos en PVC de 2mm termofundido. Entrepaños graduables y archivador empotrable con almacenamiento en cajones tipo auxiliar y tipo carpetero	GLOBAL	3

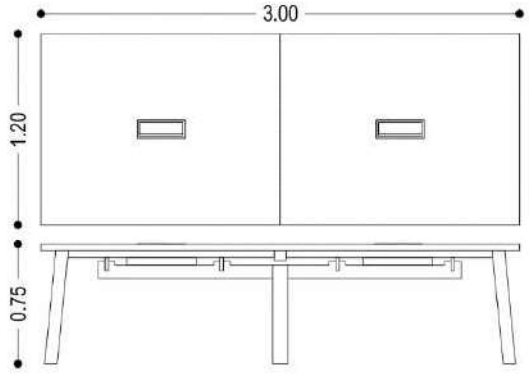
DESCRIPCIÓN COMPLETA DE CADA ÍTEM

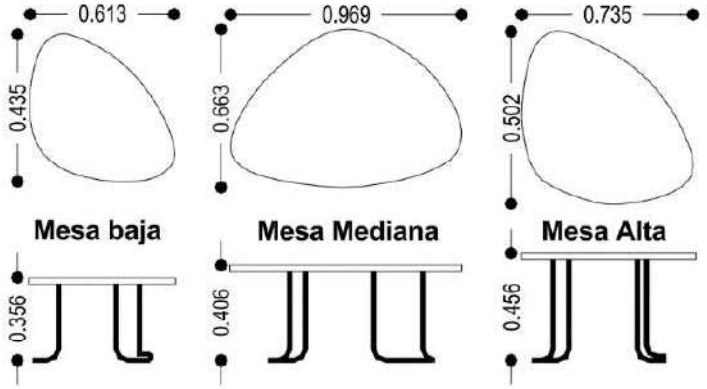
CAPITULO: 1	**SILLAS**	
1.1 SILLA INTERLOCUTORA		
UNIDAD DE MEDIDA:	UNIDAD	
DESCRIPCIÓN:		
SILLA INTERLOCUTORA. Silla para visitantes oficina del director. Altura total900 mm, ancho 560 mm, profundidad 600 mm; respaldo bajo, apoya brazos fijos, estructura de 4 patas. Asiento y respaldo en espuma moldeada de alta densidad recubrimiento en tela gris, superficie de melanina, cilindro Xiequiang (65/70), clase 3, base 4 estrellas; 315 mm con recubrimiento en polvo. estructura metálica tubular cromada, patas con regatones antideslizantes		
NORMATIVA DE REFERENCIA		
Especificaciones Técnicas con Normas ICONTEC NTC 5445		
MATERIALES:		
Estructura: tubular metálica cromada, probada con ensayo estático y de durabilidad según Normas ICONTEC NTC 5445. Patas: con regatones antideslizantes, resistencia lateral a ≥75 lb y ≈115 lb como mínimo según pruebas de resistencia lateral de patas. Asiento y respaldo: espuma alta densidad tapizada en tela gris.		
DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**
NO CONFORMIDAD		
Dimensiones fuera de especificación (altura, ancho, profundidad no cumplen tolerancias). Materiales y acabados incorrectos (estructura no cromada, tapizado distinto, espuma de baja densidad). Componentes faltantes o defectuosos (patas sin regatones antideslizantes). Estabilidad y resistencia insuficiente. Defectos estéticos o de fabricación (ralladuras, soldaduras deficientes, tela manchada).		

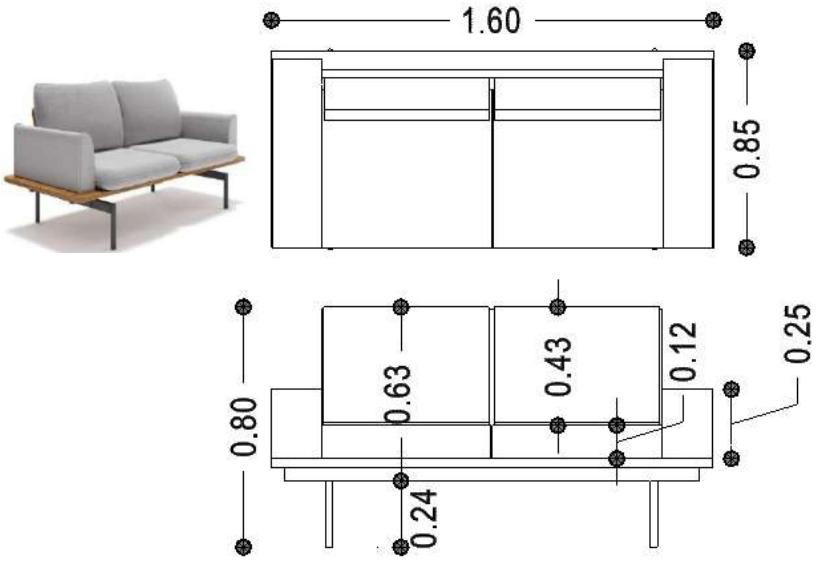
CAPITULO: 1	**SILLAS**	
1.2 SILLA DIRECTOR		
UNIDAD DE MEDIDA:	UNIDAD	
DESCRIPCIÓN:		
SILLA DIRECTOR. Silla giratoria: con brazos - soporte lumbar y cabecero. Asiento interno en madera laminada contrachapada - Espuma asiento poliuretano inyectado, densidad 50-60. Espaldar en malla autoportante en poliéster. Cobertor asiento: polipropileno inyectado. Estructura espaldar y base en nylon. Apoyo lumbar: Espuma de poliuretano. Apoyabrazos regulable en altura: Pad en poliuretano 3D regulables en altura (9 posiciones) y 7 posiciones de movimiento de adelante y atrás, y 4 posiciones de ajuste lateral. Mecanismo slider 6 puntos de bloqueo, regular 22° y ajuste de tensión. Rodachinas en nylon para piso duro de 60mm. CERTIFICACION ANSI/BIFMA.		
NORMATIVA DE REFERENCIA		
Especificaciones Técnicas con Norma BIFMA (ANSI/BIFMA X5.1-2021)		
MATERIALES:		
Asiento: madera laminada contrachapada + espuma poliuretano inyectado densidad 50–60 kg/m³. Espaldar: malla autoportante en poliéster. Cobertor asiento: polipropileno inyectado. Base y estructura: nylon reforzado. Apoyabrazos: regulables en altura (9 posiciones), profundidad (7 posiciones), y lateral (4 posiciones), con pad en poliuretano 3D. Rodachinas: nylon Ø60 mm para piso duro. Synchron Mechanism con ajuste de tensión. Cilindro certificado (Grade 3) según BIFMA para resistencia y seguridad.		
DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**
NO CONFORMIDAD		
Dimensiones y ajustes incorrectos Materiales diferentes a los especificados Mecanismo Synchron defectuoso Apoyabrazos sin función 3D completa Falta de soporte lumbar o reposacabezas Ausencia de certificación normativa y acabados deficientes		

CAPITULO: 1	**SILLAS**	
1.3 SILLA AYUDANTIA ALTA		
UNIDAD DE MEDIDA:	UNIDAD	
DESCRIPCIÓN:		
SILLA AYUDANTÍA ALTA. Silla ESPALDAR ALTO Reposacabezas: Tela negra Espaldar con apoyo lumbar: Malla negra; altura ajustable Asiento con slider; Espuma moldeada; Tela negra Brazos: almohadilla de PU, función 3D Mecanismo: Synchron Mechanism F135B5-5 Cilindro: Xieqiang gas lift 80/30, Grade 3 Base: Aluminio Ruedas: PU negras (65/25). CERTIFICACION ANSI/BIFMA.		
NORMATIVA DE REFERENCIA		
Especificaciones Técnicas con Norma BIFMA (ANSI/BIFMA X5.1-2021)		
MATERIALES:		
Reposacabezas: Tela negra. Espaldar: Malla negra autoportante con apoyo lumbar ajustable en altura. Asiento: Espuma moldeada de alta densidad, tapizado en tela negra. Cobertor asiento: Polipropileno inyectado. Brazos: Almohadilla PU con función 3D (altura, profundidad y lateral). Base: Aluminio pulido. Ruedas: PU negras Ø65 mm para piso duro. Mecanismo: Synchron Mechanism F135B5-5 con ajuste de tensión y bloqueo en varias posiciones. Cilindro: Xieqiang gas lift 80/30, Grade 3 (cumple pruebas de resistencia y seguridad BIFMA). Slider: Ajuste de profundidad mínimo 50 mm.		
DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**
NO CONFORMIDAD		
Dimensiones y ajustes incorrectos Materiales diferentes a los especificados Mecanismo Synchron defectuoso Apoyabrazos sin función 3D completa Falta de soporte lumbar o reposacabezas Ausencia de certificación normativa y acabados deficientes		

CAPITULO: 1	**SILLAS**	
1.4 SILLA SALA DE JUNTAS		
UNIDAD DE MEDIDA:	UNIDAD	
DESCRIPCIÓN:		
SILLA SALA DE JUNTAS. Silla para sala de juntas con altura 950 mm, ancho 500 mm, profundidad 550 mm, con cabecero, asiento interno fabricado en madera moldeada slider incorporado, espuma inyectada al asiento, respaldo medio, apoya brazos fijos, ruedas giratorias, altura regulable, 3 puntos de bloqueo perilla ajustable de tensión de inclinación, espuma de alta densidad, base de 5 apoyos metálica cromada. CERTIFICACION ANSI/BIFMA.		
NORMATIVA DE REFERENCIA		
Especificaciones Técnicas con Norma BIFMA (ANSI/BIFMA X5.1-2021)		
MATERIALES:		
Asiento y respaldo: Cuero sintético negro, espuma de alta densidad. Base: Metálica cromada de 5 apoyos. Rodachinas: Nylon o PU para piso duro. Asiento y respaldo: Cuero sintético negro, espuma de alta densidad. Base: Metálica cromada de 5 apoyos. Rodachinas: Nylon o PU para piso duro.		
DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**
NO CONFORMIDAD		
Dimensiones fuera de especificación Materiales diferentes a los indicados Mecanismo de ajuste defectuoso Apoyabrazos incorrectos Base o rodachinas no conformes Ausencia de certificación normativa y acabados deficientes		

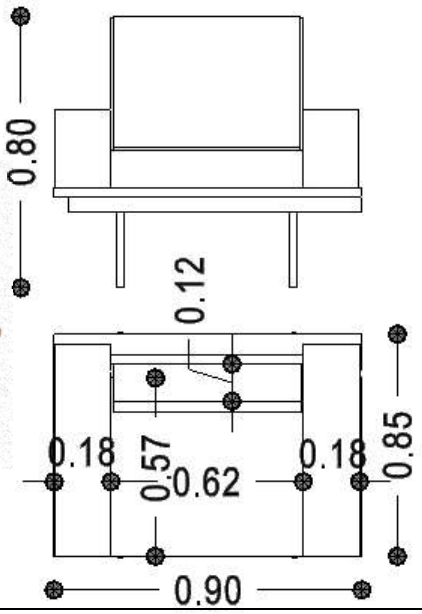
CAPITULO: 2	**MESAS**	
2.1 MESA SALA DE JUNTAS		
UNIDAD DE MEDIDA:	UNIDAD	
DESCRIPCIÓN:		
MESA SALA DE JUNTAS. Mesa para reuniones 3 m largo × 1.2 m ancho × 0.75 m altura; capacidad para 10 personas. Madera aglomerada con laminado imitación madera clara, estructura metálica gris. Especificaciones Técnicas: Superficie: Tablex de 25mm enchapado en fórmica; cubre canto en PVC de 2mm de vidrio (FV). Viga: Tubo CR cuadrado de Ø1-1/2 cal 16. Base: Tubería 60x25 trapezoidal cal 18; Tubo CR cuadrado de Ø1-1/2 cal 18; platina acero 1/8x1 en y ángulo 1/8 x1-1/2 in. Base pata media + bajante: Tubería 2x1 in rectangular cal 18; Tubo CR cuadrado de Ø1-1/2 cal 18; platina acero 1/8x1 in, ángulo 1/8 x1-1/2 in y lámina CR. cal 20 y 22. Electrificación: Sistema de cableado eléctrico: Sistema de cableado eléctrico fabricado en lámina CR. cal. 18, 20 y 22. Canaleta conexión lateral hasta pared: Sistema de cableado eléctrico fabricado en lámina CR. Cal. 18, 20 y 22. Vertebra y tapa pasacables joye doble. Certificado RETIE para canaletas, bajantes, ductos y canalizaciones de las lineas Fit rt, surf, mesas de juntas y productos especiales.		
NORMATIVA DE REFERENCIA		
Especificaciones Técnicas con Normas ICONTEC NTC 5445 – Certificado RETIE para canaletas, bajantes, ductos y canalizaciones de las líneas Fit rt, surf, mesas de juntas y productos especiales.		
MATERIALES:		
Tablero: Madera aglomerada con laminado imitación madera clara. Estructura: Metálica color gris, con refuerzos para estabilidad. Herrajes: Tornillería galvanizada anticorrosión. Acabado: Laminado resistente a ralladuras y humedad.		
DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**
NO CONFORMIDAD		
Dimensiones fuera de especificación Materiales diferentes a los indicados Estructura metálica defectuosa Acabado laminado incorrecto Herrajes incompletos o inadecuados Ausencia de certificación normativa y acabados deficientes		

CAPITULO: 2	**MESAS**	
2.2 MESA DE CENTRO		
UNIDAD DE MEDIDA:	UNIDAD	
DESCRIPCIÓN:		
MESA DE CENTRO. Configuración Mesa auxiliar Ovalada 3 tamaños, Superficie tablex 18mm, laminado en alta presión y cubrecanto en PVC de2mm, estructura en tubo C.R 5/8"C-18 y lámina CR C-14, niveladores en polipropileno. Mesa baja: h: 0.356m ancho: 0.613m x largo: 0.435m - Mesa mediana: h:0.406m ancho: 0.969 x largo: 0.663m – Mesa alta: h: 0.456m ancho: 0.735m largo: 0.502m	 	
NORMATIVA DE REFERENCIA		
Especificaciones Técnicas con Normas ICONTEC NTC 5445		
MATERIALES:		
Tablero: Madera laminada color claro. Patas: Metálicas color negro. Herrajes: Tornillería galvanizada anticorrosión. Acabado: Laminado resistente a ralladuras y humedad.		
DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**
NO CONFORMIDAD		
Dimensiones fuera de especificación Materiales diferentes a los indicados Estructura metálica defectuosa Acabado laminado incorrecto Herrajes incompletos o inadecuados Ausencia de certificación normativa y acabados deficientes		

CAPITULO: 3	**SOFÁS**
3.1 SOFÁ DE DOS PUESTOS	
UNIDAD DE MEDIDA:	UNIDAD
DESCRIPCIÓN:	
SOFÁ DE DOS PUESTOS. Sofá de 1.60 m largo × 0.85 m profundidad × 0.80m alto. Estructura de madera, asiento tablex x25mm, enchapada en fórmica FB y cubrecanto pvc de 2mm, espuma laminada densidad 26, espaldar forro en tela relleno en fibra siliconado, brazos construcción interna en madera tablex y mdf con recubrimiento en espuma laminada 26 y 40, estructura tubería 1x2" calibre 16 y patas en tubo redondo 1 1/8" calibre 14 y topones polipropileno color negro tapizado tela gris neutra, patas metálicas negras.	
NORMATIVA DE REFERENCIA	
Especificaciones Técnicas con Normas ICONTEC NTC 5445	
MATERIALES:	
Estructura: Madera sólida tratada. Relleno: Espuma de alta densidad (mínimo 28 kg/m³). Tapizado: Tela gris neutra, resistente al desgaste. Patas: Metálicas color negro con niveladores antideslizantes. Herrajes: Tornillería galvanizada anticorrosión.	

DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**

NO CONFORMIDAD
Dimensiones fuera de especificación Materiales diferentes a los indicados Estructura de madera defectuosa Tapizado incorrecto o mal instalado Patas metálicas inadecuadas o faltantes Ausencia de certificación normativa y acabados deficientes

CAPITULO: 3	**SOFAS**	
3.2 SOFÁ DE UN PUESTO		
UNIDAD DE MEDIDA:	UNIDAD	
DESCRIPCIÓN:		
SOFÁ DE UN PUESTO. Sofá de 0.90 m ancho × 0.85 m profundidad × 0.80 m alto. Estructura de madera, asiento tablex x25mm, enchapada en fórmica FB y cubrecanto pvc de 2mm, espuma laminada densidad 26, espaldar forro en tela relleno en fibra siliconado, brazos construcción interna en madera tablex y mdf con recubrimiento en espuma laminada 26 y 40, estructura tubería 1x2" calibre 16 y patas en tubo redondo 1 1/8" calibre 14 y topones polipropileno color negro tapizado tela gris neutra, patas metálicas negras	 	
NORMATIVA DE REFERENCIA		
Especificaciones Técnicas con Normas ICONTEC NTC 5445		
MATERIALES:		
Estructura: Madera sólida tratada. Relleno: Espuma de alta densidad (mínimo 28 kg/m³). Tapizado: Tela gris neutra, resistente al desgaste. Patas: Metálicas color negro con niveladores antideslizantes. Herrajes: Tornillería galvanizada anticorrosión.		
DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**
NO CONFORMIDAD		
Dimensiones fuera de especificación Materiales diferentes a los indicados Estructura de madera defectuosa Tapizado incorrecto o mal instalado Patas metálicas inadecuadas o faltantes Ausencia de certificación normativa y acabados deficientes		

CAPITULO: 4	**ALMACENAMIENTO**
4.1 BIBLIOTECA OFICINA DIRECTOR	
UNIDAD DE MEDIDA:	UNIDAD
DESCRIPCIÓN:	
"Biblioteca para libros fabricada en melamina de 18 mm, medidas de 1,50 m de largo, 2,00 m de alto y 0,40 m de ancho. diseñada para ofrecer resistencia, estabilidad y una presentación moderna. Incorpora cuatro entrepaños que conforman cinco espacios de almacenamiento, ideales para organizar libros, decoraciones u otros objetos. "	
NORMATIVA DE REFERENCIA	
Normas ICONTEC NTC 5445	
MATERIALES:	
Cuerpo: Melamina 18 mm color madera clara. Estructura interna: Refuerzos en Melamina 18 mm color madera clara para estabilidad. Herrajes: Metálicos galvanizados anticorrosión. Acabado: Laminado resistente a ralladuras y humedad.	

DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**

NO CONFORMIDAD
Dimensiones fuera de especificación Materiales diferentes a los indicados Estructura o refuerzos defectuosos Acabado laminado incorrecto Herrajes incompletos o inadecuados Ausencia de certificación normativa y acabados deficientes

CAPITULO: 4	**ALMACENAMIENTO**	
4.2 ARMARIO BAÑO DIRECTOR		
UNIDAD DE MEDIDA:	UNIDAD	
DESCRIPCIÓN:		
"Mueble guardarropas fabricado en melamina de 15 mm, diseñado para brindar funcionalidad y durabilidad. Presenta medidas de 1,50 m de largo, 2,00 m de alto y 0,60 m de ancho, ofreciendo un espacio óptimo para organizar prendas y accesorios. Cuenta con tres cajoneras, dos puertas de fácil apertura y un amplio espacio para colgar la ropa, proporcionando una solución completa y práctica para el almacenamiento. Su estructura robusta y su acabado en melamina garantizan resistencia al uso diario y una apariencia moderna que se adapta a cualquier ambiente"		
NORMATIVA DE REFERENCIA		
Normas ICONTEC NTC 5445		
MATERIALES:		
Cuerpo: MDF laminado color madera clara espesor 15 mm. Puertas: MDF laminado 15 mm con bisagras metálicas. Manijas: Metálicas cromadas. Herrajes: Tornillería galvanizada anticorrosión. Acabado: Laminado resistente a ralladuras y humedad.		
DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**
NO CONFORMIDAD		
Dimensiones fuera de especificación Materiales diferentes a los indicados Estructura o refuerzos defectuosos Acabado laminado incorrecto Herrajes incompletos o inadecuados Ausencia de certificación normativa y acabados deficientes		

CAPITULO: 5	**ESCRITORIOS**
5.1 ESCRITORIO DIRECTOR	
UNIDAD DE MEDIDA:	UNIDAD
|DESCRIPCIÓN:	

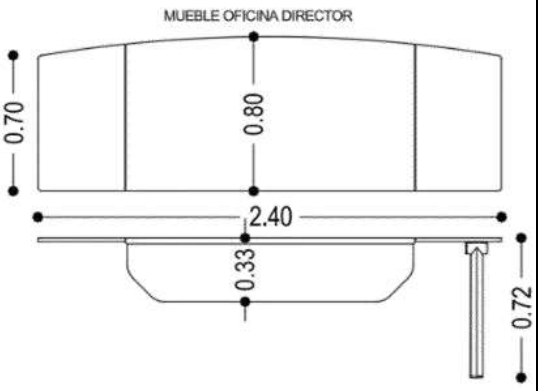
ESCRITORIO DIRECTOR.
PUESTO DE TRABAJO incluye:

SUPERFICIE PUESTO DE TRABAJO DE 2400 (2.40x0.80x0.72), 30 MM EN FORMICA Y REMATES EN VIDRIO Ttemplado 10+10.

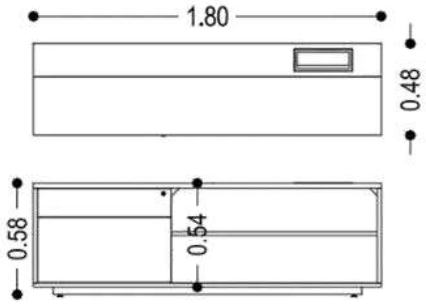
Almacenamiento retorno 1800 (1.80x0.48x0.58) CON ELECTRICACIÓN, acabados en formica de línea.

INCLUYE MUEBLE CREDENZA DE 3600 (2 unds de 1.80X0.48X0.70)









NORMATIVA DE REFERENCIA		
Especificaciones Técnicas con Normas ICONTEC NTC 5445 - Certificado RETIE para canaletas, bajantes, ductos y canalizaciones de las lineas Fit rt, surf, mesas de juntas y productos especiales.		
MATERIALES:		
Tablero MDP 30 mm recubierto en formica (superficie principal). Vidrio templado laminado 10+10 mm para remates. Tablero MDP 18 mm recubierto en HPL (credencia y retorno). Herrajes metálicos (uniones y soportes). Canalización eléctrica y de datos (bandejas, tomas, ductos). Pintura electrostática para estructura metálica. Adhesivos y selladores para laminado. Tornillería y accesorios de fijación.		
DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**
NO CONFORMIDAD		
Dimensiones fuera de tolerancia. Defectos en laminado. Falta de alineación en herrajes. Canalización eléctrica incompleta. Vidrio templado con imperfecciones. Acabado metálico defectuoso.		

CAPITULO: 5	**ESCRITORIOS**
5.2 ESCRITORIO AYUDANTÍA	
UNIDAD DE MEDIDA:	UNIDAD
DESCRIPCIÓN:	

"ESCRITORIO AYUDANTÍA. PUESTO COORDINADOR Superficies:

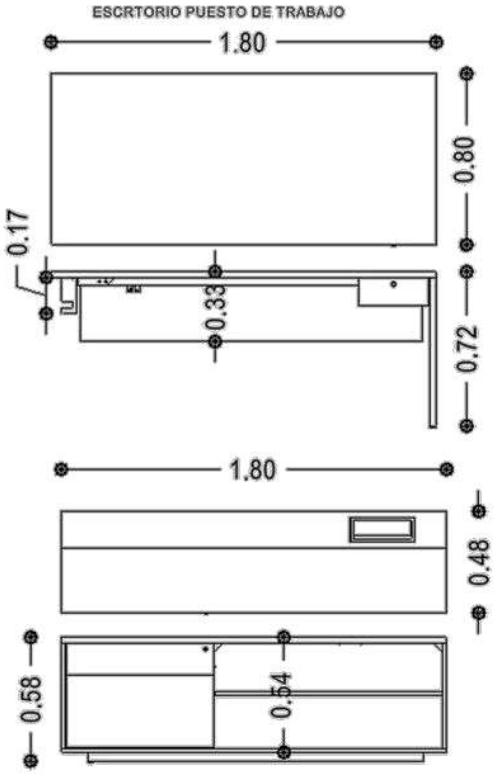
Superficie de trabajo 1.80 (1.80 x0.80x0.72) Espesor 30 mm, base tubular en acero cromado 7 mm, niveladores antideslizantes, soportes en tablero aglomerado, en color brown oak.

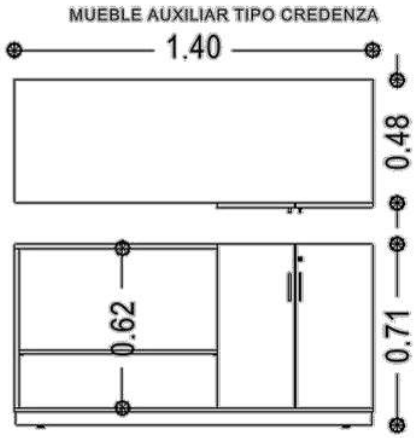
Almacenamiento retorno 1800 (1.80X0.48X0.58) CON ELECTRICACIÓN, acabados en formica de línea.

Mueble auxiliar tipo ¨credenza¨ (1.40X0.84X0.71) en Supercor y/o laminado decorativo de alta presión F-8, cantos en PVC de 2mm termofundido.

Entrepaños graduables y archivador empotrable con almacenamiento en cajones tipo auxiliar y tipo carpetero."







NORMATIVA DE REFERENCIA
Especificaciones Técnicas con Normas ICONTEC NTC 5445 - Certificado RETIE para canaletas, bajantes, ductos y canalizaciones de las lineas Fit rt, surf, mesas de juntas y productos especiales. - Certificado RETIE para canaletas, bajantes, ductos y canalizaciones de las lineas Fit rt, surf, mesas de juntas y productos especiales.
MATERIALES:
Tablero aglomerado 30 mm recubierto en laminado decorativo Brown Oak. Tubo de acero cromado Ø 7 mm para base. Niveladores antideslizantes regulables. Laminado decorativo de alta presión F-8 para credenza. Cantos en PVC 2 mm termo fundido. Herrajes metálicos para unión y ajuste. Cajones tipo auxiliar y carpetero con correderas metálicas. Adhesivos y selladores para laminado. Tornillería y accesorios de fijación.

DESPERDICIOS	**MANO DE OBRA**	**TRANSPORTE**
Incluidos	Incluidos	Incluidos
NO APLICA	**Si**	**Si**

NO CONFORMIDAD
Dimensiones fuera de tolerancia. Defectos en laminado. Falta de alineación en herrajes. Niveladores defectuosos. Cantos en PVC mal adheridos.