

FOSHAN NANHAI XINDA CLOVER INDUSTRIAL CO.,LTD
NO.3 XINGYE NORTH ROAD SHISHAN NANHAI FOSHAN

Sample Description : T3 PARTITION WORKSTATION
Item No. : T3
SKU No. : T3-WS1-L
Manufacturer : XINDA CLOVER INDUSTRY LIMITED COMPANY NANHAI FOSHAN CITY

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Jan 14, 2022
Test Performing Date : Jan 17, 2022 to Jan 28, 2022
Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	ANSI/BIFMA X5.6-2016, excluding clause 4	PASS	/
For further details, please refer to the following page(s)			

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



Bill Wang
Authorized Signatory

scan to see the report



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TESTS AND RESULTS

Test Conducted:

ANSI/BIFMA X5.6-2016 Panel Systems – Tests, excluding clause 4.

No. of Sample:

1 piece (Sample #1). For more sample information and pictures, please refer to the following page.

Test and Requirements	Test Results
<p>4 Panel Flammability Test The Flame Spread (FS) index shall be 200 or less. The Smoke Developed (SD) index shall be 450 or less. If the Smoke Developed index exceeds 450, the product shall be labeled to indicate that the Smoke Developed index exceeds 450.</p>	N/R
<p>5 Stability Tests for Panel Systems Products</p>	
<p>5.1 Force Stability Test Apply a force perpendicular to the face of the back panel at the locations specified through the center of a disk that is 203 mm (8 in.) in diameter. The force shall be applied to the face of the back panel at locations 1372 mm (54 in.) from the floor or 102 mm (4 in.) down from the top edge, whichever is lower. The force shall be applied on the panel face (either inside or outside face) at a location such that the force causes the configuration to be in its least stable condition. Gradually increase the force until 178 N (40 lbf.) is reached, or the product tilts to 10 degree minimum, whichever occurs first. The panel system shall not tip over. Components shall not separate from the panel. There shall be no loss of serviceability.</p>	PASS
<p>5.2 Impact Stability Test Swing the bag(22.7, 50lbs) through a horizontal distance of 610 ± 12 mm (24 ± 0.5 in.). The distance from the pivot point to the bottom of the bag shall be 1282 ± 12 mm (50.5 ± 0.5 in.). Impact the face of the back panel along a line that is 1321 mm (52 in.) from the floor or 102 mm (4 in.) down from the top edge, whichever is lower. The impact shall be applied on the panel face (either inside or outside face) at a location such that the impact causes the configuration to be in its least stable condition. The panel system or screen shall not tip over. Components shall not separate (fall off) from the panel. There shall be no loss of serviceability.</p>	PASS
<p>5.3 Force Stability Test for Freestanding Screens Apply a force perpendicular to the face of the screen at the locations specified through the center of a disk that is 203 mm (8 in.) in diameter. The force shall be applied to the face of the screen at a location 1372 mm (54 in.) from the floor or 102 mm (4 in.) down from the top edge, whichever is lower. The force shall be applied on the screen face at a location such that the force causes the configuration to be in its least stable condition. Gradually increase the force until 178 N (40 lbf.) is reached, or the product tilts to 10 degree minimum, whichever occurs first. The screen shall not tip over. There shall be no loss of serviceability.</p>	N/A
<p>6 Mechanical Strength Test for Panel Systems Products</p>	



Test and Requirements	Test Results
<p>6.2 Panel System Strength Test - Static Functional Load Shelves shall be loaded per Table 1 functional distributed load(s). Shelf loads shall be uniformly applied along the entire width and depth of the shelf surface. Primary surfaces shall be loaded per Table 1 functional distributed load(s). The load is calculated by multiplying the perimeter in mm (in.) by the appropriate distributed load in Table 1. The calculated load is then evenly distributed and centered over a line 203 mm (8 in.) in from the edge along the entire perimeter. Loading materials shall not overhang the edge of the unit. For surfaces that are less than 406 mm (16 in.) deep, evenly distribute the load across the surface. Loads shall be allowed to remain for 60 minutes and then removed. There shall be no loss of serviceability.</p>	<p>PASS</p>
<p>6.3 Panel System Strength Test - Static Proof Load Use the panel configuration per Section 6.2. Surfaces shall be loaded per Table 1 distributed proof load(s). The primary surface load is evenly distributed and centered over a line 203 mm (8 in.) in from the edge along the entire perimeter. Secondary surface loads shall be uniformly applied along the entire width and depth of the surface. Loading materials shall not overhang the edge of the surface. For surfaces that are less than 406 mm (16 in.) deep, evenly distribute the load across the surface. Loads shall be allowed to remain for 15 minutes and then removed. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	<p>PASS</p>
<p>7 Panel Glide Assembly Strength Test Secure a single panel to a test platform such that the panel is supported within 152 mm (6 in.) to 203 mm (8 in.) from the bottom of the panel. Extend the glide to the midpoint of its full adjustment as specified by the manufacturer. Apply a force of 222 N (50 lbf.) to the edge of the glide's base in each of the directions shown in Figure 7. There shall be no loss of serviceability.</p>	<p>PASS</p>
<p>8 Panel Component Static Load Tests</p>	
<p>8.1 Primary Surface Concentrated Functional Load Test Apply the specified concentrated load described in Table 1 through a 305 mm (12 in.) disk 25 mm (1 in.) from the unit's edge at its apparent weakest point. When testing units (including those with ganged surfaces) with lengths (or diameters) greater than 1829 mm (72 in.), two concentrated loads are required. Load all extendible elements with the functional load per Table 1. Open the two largest extendible elements for the duration of the test. If the unit contains an interlock that will not allow all extendible elements to be open simultaneously, open the largest capacity extendible element(s). Loads shall be allowed to remain for 60 minutes and then removed and then perform the Pull Force Test in Section 13. There shall be no loss of serviceability. Upon completion of the test, the extendible element(s) shall meet the pull force requirements of Section 13.</p>	<p>PASS</p>



Test and Requirements	Test Results
<p>8.2 Horizontal Surface Distributed Functional Load Tests Depending on the surface classification, apply the specified functional distributed loads described in Table 1. For primary surface, load is calculated by multiplying the length of the perimeter in mm (in.) by the appropriate distributed load in Table 1. The load is evenly distributed and centered over a line 203 mm (8 in.) in from the edge along the entire perimeter. Loading materials shall not overhang the edge of the unit. For surfaces which are less than 406 mm (16 in.) deep, evenly distribute the load across the surface. For other surface, the load is evenly distributed according to table 1. Load all extendible elements with the functional load per Table 1. Open the two largest extendible elements for the duration of the test. If the unit contains an interlock that will not allow all extendible elements to be open simultaneously, open the largest capacity extendible element(s). Loads shall be allowed to remain for 60 minutes and then removed. Close the extendible elements and perform the Pull Force Test in Section 13. There shall be no loss of serviceability. Upon the completion of the test, the extendible element(s) shall meet the pull force requirements of Section 13.</p>	<p>PASS</p>
<p>8.3 Primary Surface Concentrated Proof Load Tests The setup shall be performed per Section 8.1.2 with the appropriate concentrated proof load per Table 1. All extendible elements shall continue to be loaded with the functional load per Table 1. Open the two largest extendible elements for the duration of the test. If the unit contains an interlock that will not allow multiple extendible elements to be open simultaneously, open the largest capacity extendible element(s). Loads shall be allowed to remain for 15 minutes and then removed. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	<p>PASS</p>
<p>8.4 Horizontal Surface Distributed Proof Load Tests Perform the setup per Section 8.2.2 using the appropriate distributed proof loads per Table 1. All extendible elements shall continue to be loaded with the functional load per Table 1. Open the two largest extendible elements for the duration of the test. If the unit contains an interlock that will not allow multiple extendible elements to be open simultaneously, open the largest capacity extendible element(s). Loads shall be allowed to remain for 15 minutes and then removed. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	<p>PASS</p>
<p>8.5 Transaction Surface Torsional Load Test Attach a strap or stranded metallic cable to one edge of the transaction surface at its apparent weakest point. Pass the strap or stranded metallic cable over the top of the transaction surface and allow it to hang down below the opposite edge. The strap, cable and/or the weight shall not contact any other surface. Attach a 34 kg (75 lb.) weight to the free end of the strap or cable. Allow the suspended weight to remain in place for 15 minutes. Remove the weight. If the transaction surface and/or its supports are not symmetrical, repeat the test with the weight suspended from the opposite edge. There shall be no loss of serviceability.</p>	<p>N/A</p>



Test and Requirements	Test Results
<p>8.6 Functional Load Test For Panel Mounted Storage Units – Static Apply the specified functional loads described in Table 1. For units with multiple surfaces and/or extendible elements, load all elements simultaneously. For shelves and cabinet tops, the loads shall be evenly distributed across the depth and length of the useable space on the shelf. The functional loads shall be allowed to remain for a minimum of 60 minutes. Extendible elements shall be fully extended during the test. For storage units with interlocks on the extendible elements, extend the element with the largest capacity. There shall be no loss of serviceability. After the application of this load, the extendible elements shall meet the pull force requirements of Section 13.</p>	<p>N/A</p>
<p>8.7 Proof Load Test for Panel Mounted Storage Units – Static The set up shall be as per section 8.6.2. Apply the specified proof loads described in Table 1. The proof loads shall be allowed to remain for a minimum of 15 minutes. Extendible elements shall be fully extended during the test. For storage units with interlocks on the extendible elements, extend the element with the largest capacity. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	<p>N/A</p>
<p>9 Lock Tests – Static</p>	
<p>9.1 Test for Extendible Element Locks A horizontal outward force of 222 N (50 lbf.) shall be applied once at each of the applicable locations indicated in the test setup. An outward and upward force (30 degrees from horizontal) of 222 N (50 lbf.) shall be applied once at each of the applicable locations indicated in the test setup. All extendible elements in the unit shall be uniformly loaded with the functional load per Table 1 and repeat above tests. The extendible elements shall remain in the normal locked position during application of the forces. There shall be no loss of serviceability of the locking mechanism.</p>	<p>N/A</p>
<p>9.2 Force Tests for Door Lock Apply a force of 222 N (50 lbf.) in the direction of initial door travel. The doors shall remain in the normal locked position during application of the forces. There shall be no loss of serviceability of the locking mechanism.</p>	<p>N/A</p>
<p>10 Panel Mounted Component Cyclic Durability Tests</p>	
<p>10.1 Top Load Ease Cycle Test (for Primary Surfaces) The bag of 200 lbs (91kg) shall be raised until the entire weight is off the primary surface and then eased (without impact) onto the primary surface for a total of 10,000 cycles, so that it takes the entire weight without any support from the cycling device. There shall be no loss of serviceability to the unit. Upon completion of the cycling test, the extendible element(s) shall meet the pull force requirements of Section 13.</p>	<p>N/A</p>
<p>10.2 Cycle Test for Extendible Elements The largest extendible element of each construction/mounting type shall be tested. The extendible element being tested shall be uniformly loaded to the functional load per Table 1. The extendible element shall be subjected to 50,000 cycles. There shall be no loss of serviceability to the unit. Before and after the cycle test, the extendible element(s) shall meet the pull force requirements of Section 13.</p>	<p>N/A</p>
<p>10.3 Cycle Test for Low Height Drawers The low height drawer shall be uniformly loaded per Table 1 and subjected to 10,000 cycles. There shall be no loss of serviceability. Before and after the cycle test, the low height drawer shall meet the pull force requirements of Section 13.</p>	<p>N/A</p>



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Test and Requirements	Test Results
<p>10.4 Extendible Element Retention Impact and Durability (Out Stop) Tests The extendible element being tested shall be uniformly loaded to the functional load per Table 1. A stranded metallic cable shall be attached to the most rigid point of the vertical centerline of the extendible element. Remove the weight restraint. Hold the extendible element 38mm from closed position and release. Restrain the weight after the extendible element open 80% of its total extension. Impact the out stop for 5 times. Move the fully extended extendible element 51 mm (2 in.) toward the closed position and then release it rapidly, allowing it to impact the out stop. The distance traveled by the weight shall not be restrained. This procedure shall be repeated 15,000 cycles at a rate of 14 ± 6 cycles per minute. There shall be no loss of serviceability or disengagement of the extendible element from the unit. Before and after performing the Retention Tests, the extendible element shall meet the pull force requirements of Section 13.</p>	<p>N/A</p>
<p>10.5 Extendible Element Rebound Test The extendible element to be tested shall be loaded to the functional load requirements in Table 1. The extendible element shall be opened (through the free travel space) against the force gauge to a force of 9.8 N per kg (1 lbf./pound) of extendible element load or 178 N (40 lbf.), whichever force is less. Release the extendible element allowing the force applied by the force gauge to close the extendible element. Record the at-rest position of the extendible element after rebound. There shall be no loss of serviceability. Before and after the test the extendible elements shall meet the pull force test requirements in Section 13. The rebound position of the extendible element, after each of five closings, shall not exceed 38 mm (1.5 in.) from its closed position.</p>	<p>N/A</p>
<p>10.6 Locking Mechanism Cycle Test Cycle the locking mechanism through its full range of motion for 5000 cycles. Each cycle shall consist of a complete locking and unlocking of the mechanism. There shall be no loss of serviceability of the locking mechanism.</p>	<p>N/A</p>
<p>10.7 Adjustable Keyboard Support and Input Device Support Cycle Tests Apply an evenly distributed 4.5 kg (10 lb.) load across the articulated keyboard support surface and 2.3 kg (5 lb.) load across the input device support surface (if it is a separate surface from the keyboard support surface). The adjustable keyboard and input device support surface(s) shall be subjected to 2500 cycles. There shall be no loss of serviceability.</p>	<p>N/A</p>
<p>10.8 Work Surface Vertical Adjustment Test Apply a test load of 22.5kg (50 lb.) or 45 kg (100 lb.) through a 305 mm (12 in.) diameter disk with the center of the disk on a line 305 mm (12 in.) in from the working edge of the surface or at the midpoint, whichever is nearer the working edge. The unit, including any latches or activation mechanisms, shall be cycled for a total of 4000 cycles. There shall be no loss of serviceability to the unit. For tables with crank driven height adjustment mechanisms, the operating force on the handle to adjust the table shall not exceed 50 N (11.2 lbf.) before or after the test.</p>	<p>N/A</p>
<p>11 Panel-mounted Storage Unit Door Tests</p>	



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Test and Requirements	Test Results
<p>11.2 Strength Test for Vertically Hinged Doors, Bi-fold Doors and Vertically Receding Doors Attach the specified load per Table 6 so that it is equally distributed on both sides of the door and its center of gravity acts 100 mm (4 in.) from the edge of the door opposite the hinge. Cycle the door 10 times from a position 45 degrees from fully closed to a position 10 degrees from fully open (but not more than 135 degrees) and return. For bi-fold doors, cycle the door from a position 50 mm (2 in.) from fully closed to a position 50 mm (2 in.) from fully open and return. There shall be no loss of serviceability to the unit.</p>	N/A
<p>11.3 Hinge Override Test for Vertically Hinged Doors Apply a 60 N (13.5 lbf.) horizontal force perpendicular to the plane of the door on its horizontal centerline 100 mm (4 in.) from the edge farthest from the hinge. There shall be no loss of serviceability to the panel systems unit or its components.</p>	N/A
<p>11.4 Vertical Receding Doors Strength Test Apply the 80 N (18 lbf.) horizontal force perpendicular to the plane of the door on its horizontal centerline 100 mm (4 in.) from the edge farthest from the hinge for 10 times. Repeat the test with the force application to the opposite side of the door. There shall be no loss of serviceability to the unit or its components.</p>	N/A
<p>11.5 Horizontal Receding Doors Strength Test Apply the 80 N (18 lbf.) downward force perpendicular to the plane of the door on its horizontal centerline 25 mm (1 in.) from the edge farthest from the hinge for 10 times. There shall be no loss of serviceability to the unit or its components.</p>	N/A
<p>11.6 Wear and Fatigue Test for Hinged, Horizontally Sliding, and Tambour Doors Cycle the door for a total of 20,000 cycles as specified in Table 5. The cyclic rate shall be 12 ± 4 cycles per minute unless the rate is controlled by the door operating mechanisms. There shall be no loss of serviceability to the unit or its components.</p>	N/A
<p>11.7 Wear and Fatigue Test for Vertical Receding Doors Cycle the door for a total of 10,000 cycles. Before and after the cycle test, the door shall meet the pull force requirements of Section 13. The door shall have no loss of serviceability.</p>	N/A
<p>11.8 Wear and Fatigue Test for Horizontal Receding Doors The door shall be subjected to 20 000 cycles at 12 ± 4 cycles per minute. Before and after the cycle test, the door shall meet the pull force requirements of Section 13. (The door may be supported in a horizontal plane during the pull force test.) The door shall have no loss of serviceability.</p>	N/A
<p>11.9.3 Vertical and Horizontal Receding Door Out Stop Test – Cyclic Impact test The door with stranded metallic cable and hanging weight shall be held 38 mm (1.5 in.) from the closed position and then released, permitting it to open rapidly and impact the out stops for a total of 5 times. Before and after the cycle test, the door shall meet the pull force requirements of Section 13. There shall be no loss of serviceability.</p>	N/A
<p>11.9.4 Vertical and Horizontal Receding Door Out Stop Test – Cyclic Durability A device shall be used to move the door 51 mm (2 in.) toward the stowed position and then to release it rapidly, allowing it to impact the out stop. This procedure shall be repeated 5000 cycles at a rate of 10 ± 2 cycles per minute. Before and after the cycle test, the door shall meet the pull force requirements of Section 13. There shall be no loss of serviceability.</p>	N/A



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Test and Requirements	Test Results
<p>11.10 Slam Closed Test for Vertically Hinged and Vertically Receding Doors Open the door through a distance of 300 mm (12 in.) or 30 degrees, whichever is less. Add 2 kg (4.4 lb.) to the load determined to cause the door to close. This combined load shall be used to conduct the test. The load shall be restrained after the door reaches a point 10 mm (0.4 in) from closure. The door with cable and hanging weight shall be held at 300 mm (12 in.) or 30 degrees from the closed position and then released, permitting the door to close, allowing it to impact the unit. Repeat this procedure for a total of 10 times. There shall be no loss of serviceability to the unit.</p>	<p>N/A</p>
<p>11.11 Drop Cycle Test for Horizontally Hinged and Horizontally Receding Doors The door shall be lifted and dropped 200 times at a rate not to exceed 10 cycles per minute. There shall be no loss of serviceability to the unit or its components.</p>	<p>N/A</p>
<p>11.12 Slam Test for Doors Which Free Fall Open or Closed Allow the door to fall freely/open freely. Repeat for 50 cycles in each direction. There shall be no loss of serviceability to the unit or its components.</p>	<p>N/A</p>
<p>11.13 Slam Open and Closed Test for Doors That Do Not Free Fall Move the door, lifting the weight so the door will travel 300 mm (11.8 in.) or to the doorstop opposite the one to be impacted, whichever is less. Release the door, permitting the door to move rapidly, allowing it to impact the doorstop for 10 times. Repeat above test, impact the opposite door stop on the same door. There shall be no loss of serviceability to the unit or its components.</p>	<p>N/A</p>
<p>11.14 Door Latch Level Operate the latch 20,000 times at 12 ± 4 cycles per minute. There shall be no loss of serviceability to the door or its latching mechanism.</p>	<p>N/A</p>
<p>12 Disengagement Tests for Panel Mounted Components</p>	
<p>12.1 Upward Force Static Disengagement Test for Panel Mounted Components An upward force shall be applied to the unloaded component at one end in line with the center of balance. Apply the specified load until either the load is attained or the front edge of the component is displaced 50 mm (2 in.). The component shall not become disengaged. No loss of serviceability shall result from application of the force.</p>	<p>PASS</p>
<p>12.2 Upward Force Impact Disengagement Test for Panel Mounted Components A 4.5 kg (10 lb.) weight shall be suspended from the steel eyehook located 356 mm (14 in.) in back of the pivot pin at the end opposite from the impact head. The horizontal arm shall be lifted to 102 mm (4 in.) as measured at the end of the impact arm. The arm shall then be allowed to free-fall so the impact head strikes the component. Impact the component anywhere along its lower surface, but not closer than 152 mm (6 in.) from its attachment point. The component shall not become disengaged. No loss of serviceability shall result from application of the force.</p>	<p>PASS</p>
<p>13 Pull Force Test Open the extendible element or door from its fully closed position to its fully extended position while measuring the maximum force. The applied force shall not exceed 50 N (11.2 lbf.)</p>	<p>N/A</p>



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Test and Requirements	Test Results
<p>14 Wear and Fatigue Test for Vertically Hinged and Horizontally Sliding Access Doors Cycle the door for a total of 20,000 cycles. The cyclic rate shall be 8 ± 4 cycles per minute unless the rate is controlled by the door operating mechanisms. There shall be no loss of serviceability to the door unit or its components.</p>	N/A
<p>15 Slam Open and Closed Test for Sliding Access Doors Set up the test device to move the door 457 mm (18 in.) from its open or closed position or to its opposite door stop if less. Place door 25 mm (1.0 in.) from the doorstop to be impacted and place weight restraint at this position. Move the door, lifting the weight so the door will travel 457 mm (18 in.). Release the door, permitting the door to move rapidly, allowing it to impact the doorstop. Repeat for a total of 10 times. Attach a weight that is 1.13 kg (2.5 lbs.) plus the pull force value that will act to cause the door to open or close. Set up the test device to move the door 457mm (18 in.) from its open or closed position or to its opposite door stop if less and release the door allowing it to impact the doorstop. Do not restrain the weight. Repeat for a total of 1000 times at a rate not to exceed 10 cycles per minute. Impact the opposite door stop on the same door. There shall be no loss of serviceability to the door unit or its components.</p>	N/A
<p>16 Slam Closed Test for Vertically Hinged Access Doors The door with cable and hanging weight shall be held at 45 degrees from the closed position and then released, permitting the door to close, allowing it to impact the door frame. Repeat this procedure for a total of 10 times. There shall be no sudden and major structural change to the door or its components. Any glass shall not break to the extent that glass is released or drops from its normal position. The door does not need to remain functional, but shall not disengage or fall from its tracks or guides.</p>	N/A
<p>17 Force Test for Access Door Lock A pull force of 222 N (50 lbf.) shall be applied once at to the door pull (handle) in a direction that acts to open the door. The door shall remain in the locked position during application of the forces. There shall be n loss of serviceability of the locking mechanism.</p>	N/A
<p>18 Glass Retention Test for Vertically Hinged Access Doors Swing the bag through a horizontal distance of 610 ± 12 mm (24 ± 0.5 in.). The distance from the pivot point to the bottom of the bag shall be 1282 ± 12 mm (50.5 ± 0.5 in.). Impact the face of the glass insert along a line that is 1321 mm (52 in.) from the floor an centered on the glass insert. The impact shall be applied on the glass insert faces (both sides). Thus two impacts are conducted. The glass insert or any pieces of glass shall not become separated from the door.</p>	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.



SGS-CSTC 检测技术有限公司
 Shunde Branch Harqumies

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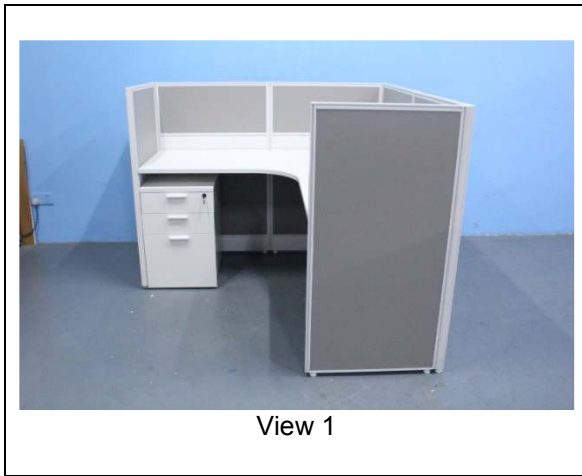
SAMPLE INFORMATION AND PICTURES

Weight: 77.75 kg

Overall Dimensions: 1565 mm L x 1565 mm W x 1195 mm H

Other Dimensions: /

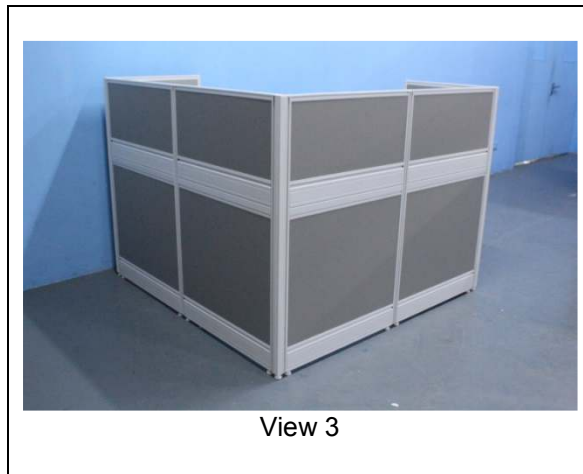
Sample as Received



View 1



View 2



View 3

End of Report

