

- Color Balance
- Low Scintillation
- Wide Viewing Angle
- High Tolerance of Ambient Light
- High Definition
- Low Retardation
- Single Element Screen

BOS-C is a single, thin, cell cast acrylic sheet with Blue Ocean® diffusion particles throughout the entire screen structure. The screen is cast with physical anti-reflective surface that completely eliminates all specular reflections (mirror reflections) on either side of the screen. BOS-C is excellent for all rear projection applications (home theater, exhibitions, public advertising, retail store displays, etc.) especially those where minimum weight and bending flexibility is crucial.



Additionally, the benefit of low retardation makes this range of screens well suited for polarization type 3D screens. Also, our new, thin shape, super high definition BOS-C can reproduce super fine pixel images.

Screen Material

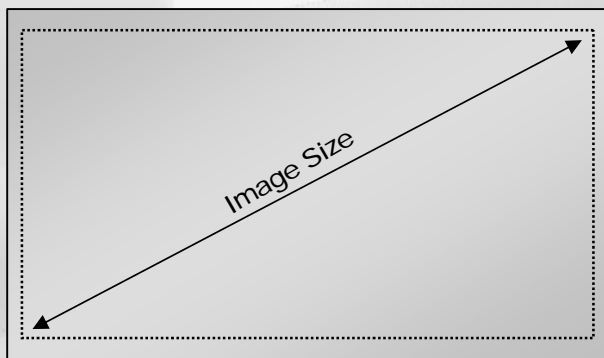
PMMA

Finishes

Matte Finish on surface.

Form of Screen

BOS- has one center-hall at top of the screen and four loose-hole lined up near to the center-hall. Hole diameter and the distance between each hole vary with the screen size.



Specifications

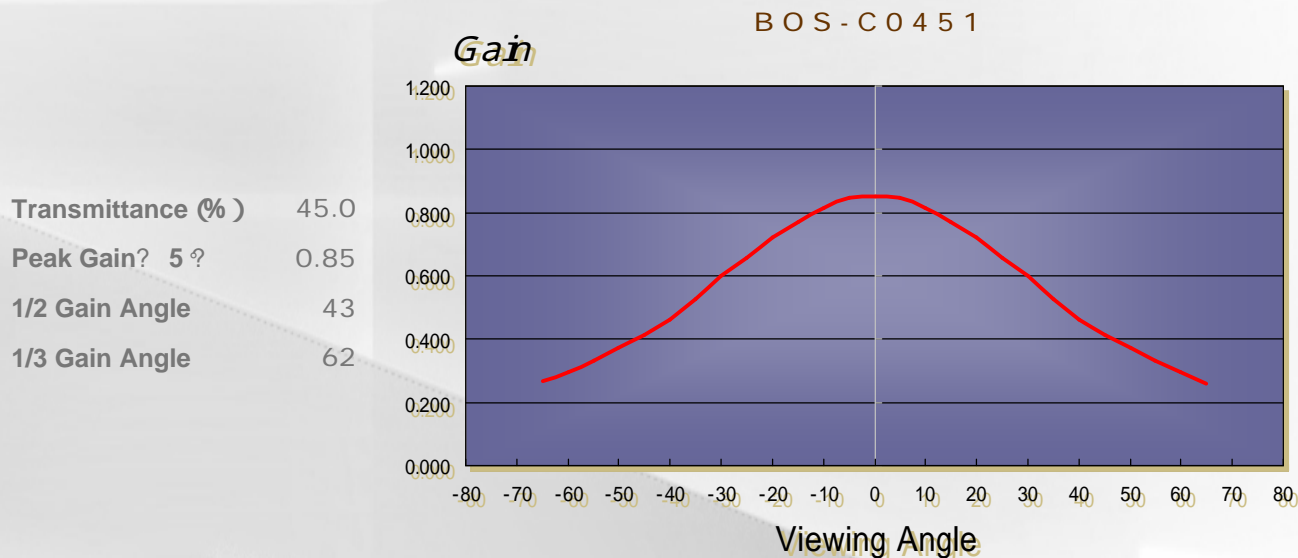
16:9 Aspect Ratio

Screen Size	Screen Thickness	Screen Dimension	Image Area	Screen Weight
		Height x Width	Height x Width	
70"	2 (0.08)	920 x 1589 (36) x (63)	872 x 1550 (34) x (61)	4 (9)
80"	2 (0.08)	1040 x 1820 (41) x (72)	996 x 1771 (39) x (70)	5 (11)
100"	2 (0.08)	1290 x 2260 (51) x (89)	1245 x 2214 (49) x (87)	7 (15)

4:3 Aspect Ratio

Screen Size	Screen Thickness	Screen Dimension	Image Area	Screen Weight
		Height x Width	Height x Width	
70"	2 (0.08)	1110 x 1470 (44) x (52)	1067 x 1422 (42) x (56)	4 (9)
80"	2 (0.08)	1260 x 1670 (50) x (66)	1219 x 1626 (48) x (64)	5 (11)
100"	3 (0.12)	1570 x 2080 (62) x (82)	1524 x 2032 (60) x (80)	12 (26)
120"	3 (0.12)	1870 x 2480 (74) x (98)	1829 x 2438 (72) x (96)	17 (37)

Viewing Angle



* Specification are subject to change at any time.

Packaging Dimensions and weight of packing

All screens are packed and shipped individually in reinforced cardboard packaging, suitable for international shipment.

Cardboard packaging dimension and weight

***Total Package Weight includes screen weight.**

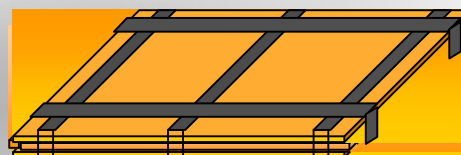
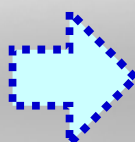
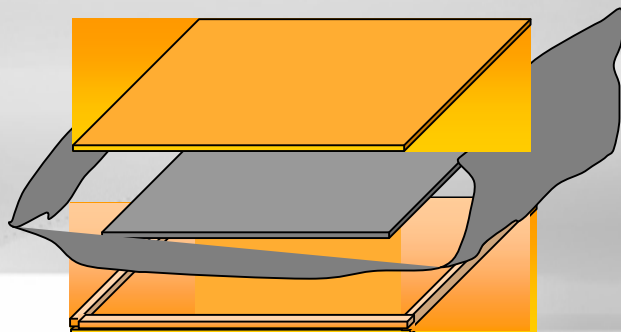
16:9 Aspect Ratio

Screen Size	Total Package Thickness	Package Dimension	Total Package Weight	
		A x B	A/W	V/W
70"	45 (1.77)	1040 x 1710 (41) x (67)	12 (26)	13 (29)
80"	45 (1.77)	1160 x 1940 (46) x (76)	16 (35)	17 (37)
100"	45 (1.77)	1410 x 2380 (56) x (94)	33 (73)	25 (55)

4:3 Aspect Ratio

Screen Size	Total Package Thickness	Package Dimension	Total Package Weight	
		A x B	A/W	V/W
70"	45 (1.77)	1230 x 1590 (48) x (63)	13 (29)	15 (33)
80"	45 (1.77)	1380 x 1790 (54) x (70)	24 (53)	19 (42)
100"	45 (1.77)	1690 x 2200 (67) x (87)	37 (81)	28 (62)
120"	45 (1.77)	1990 x 2600 (78) x (102)	41 (90)	39 (86)

*A/W = Actual Weight
V/W = Volume Weight



Solid, vivid black color, even in ambient light

Superior Color Fidelity

Low Scintillation

High Definition

Versatile Incident Angle Acceptance

BOS-F is a monolithic film screen designed for all light conditions. Excellent for all front projection applications: completely dark room, multi-purpose entertainment and living rooms, fully lit conference rooms and business presentation applications.



Specifications

16:9 Aspect Ratio

Screen Size	Screen Thickness	Screen Dimension	Image Area	Screen Weight
		Height x Width	Height x Width	
80"	3 (0.12)	1040 x 1820 (41) x (72)	996 x 1771 (39) x (70)	5 (11)
100"	5 (0.2)	1290 x 2260 (51) x (89)	1245 x 2214 (49) x (87)	17 (37)
120"	5 (0.2)	1540 x 2700 (61) x (106)	1494 x 2657 (59) x (112)	25 (55)

4:3 Aspect Ratio

Screen Size	Screen Thickness	Screen Dimension	Image Area	Screen Weight
		Height x Width	Height x Width	
80"	5 (0.2)	1260 x 1670 (50) x (66)	1219 x 1626 (48) x (64)	13 (29)
100"	5 (0.2)	1570 x 2080 (62) x (82)	1524 x 2032 (60) x (80)	20 (44)

Screen material

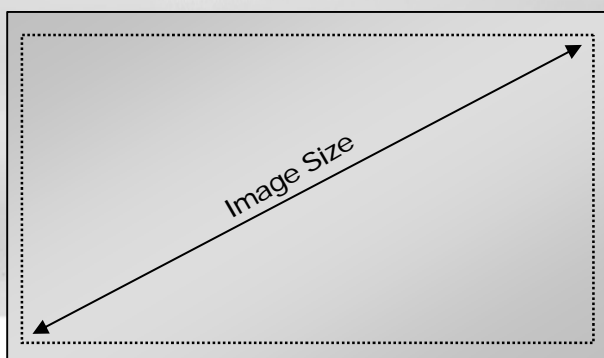
PMMA

Finishes

Matte Finish on surface.

Form of Screen

BOS- has one center-hall at top of the screen and four loose-hole lined up near to the center-hall. Hole diameter and the distance between each hole vary with the screen size.



Reflectance

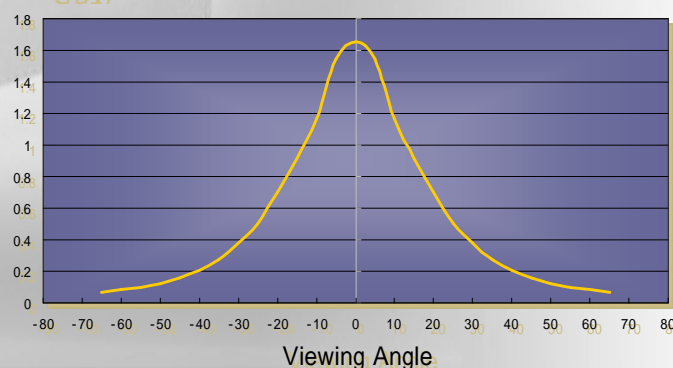
21%

Viewing Angle

Peak Gain (5°)	1.5
1/2 Gain Angle	20
1/3 Gain Angle	25

Gain

BOS-F5711W



* Specification are subject to change at any time.

Reflection Behavior of the Screen

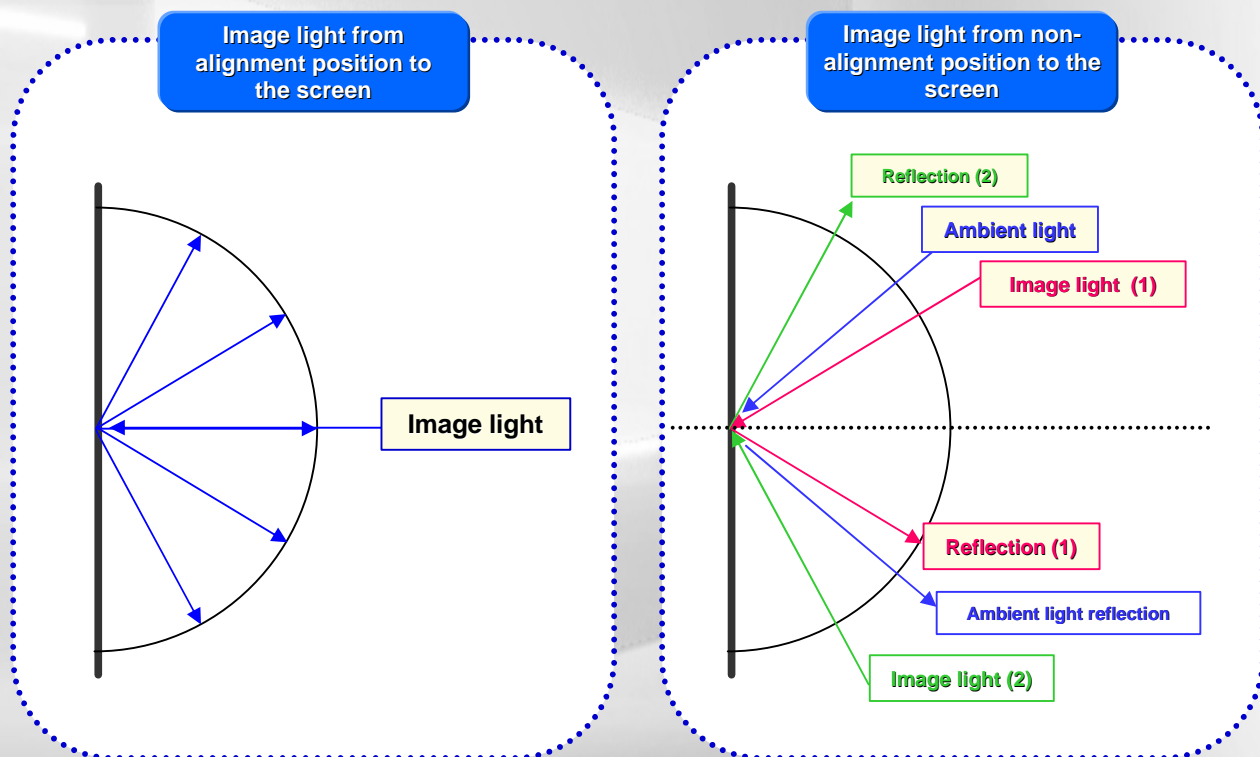
The light reflection behavior on the BOS-F5711W is a Regular Reflection (also called mirror, angular, or specular reflection) in which the projected light reflects off the screen at the same optical angle as it hit the surface (angle of incidence equals the angle of reflection).

It is very important to consider the light reflection behavior of the screen when designing the theater room: positioning the screen and projector for the optimal viewing position.

Note the following points for ideal installation.

1. Place the screen where the center axis of image light reflects to the viewing position.
2. Avoid placing the screen where the ambient light reflects to the viewing position as much as possible.

The reflection behavior on the screen surface is the same between image light from the projector and ambient light.



Ambient Light Reflection Behavior on the Screen

The reflection behavior on the BOS-F5711W is a regular reflection (mirror / angular / specular).

The projected light reflects off the screen at the same optical angle as it hit the surface.

(Example 1)

When the position of the window is near the screen as described in figure 1, the light from the window hits on the screen and reflects to the other side in the same optical angle as it comes in.

Use of curtain/drape on the window is recommended when the ambient light reflection is inside the visible range of the viewer.



Window

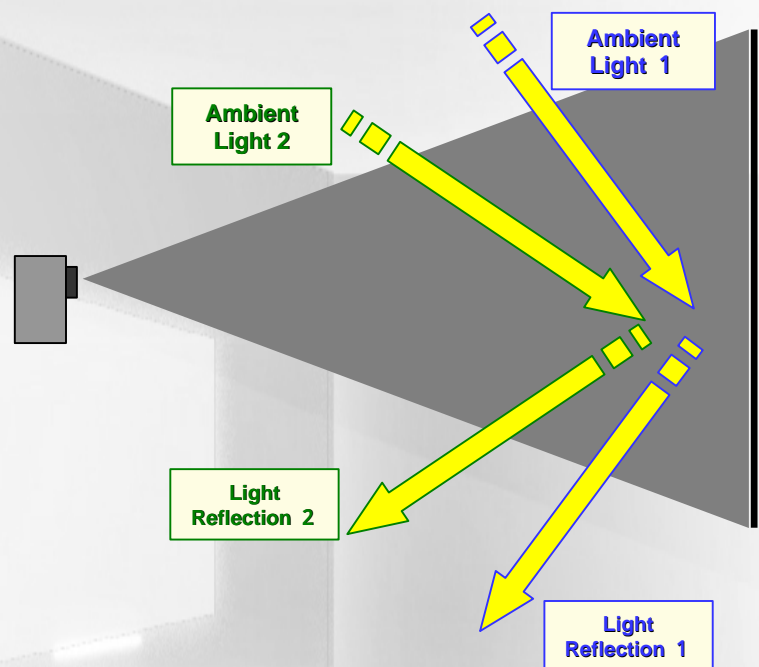
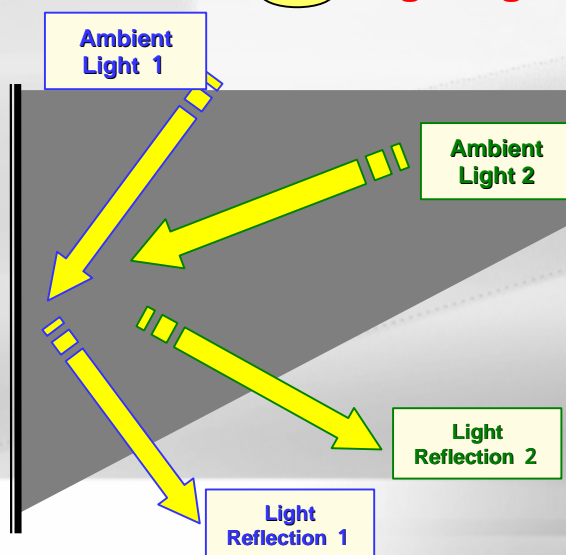


Fig. 1

Fig. 2



(Example 2)

When area lighting is ceiling-mounted as described in figure 2, the lighting reflects off the screen to the floor (and possibly to viewer seating).

To avoid this, use of spotlighting (directional lighting) is recommended when the area lighting is installed in the screen vicinity.

Installation

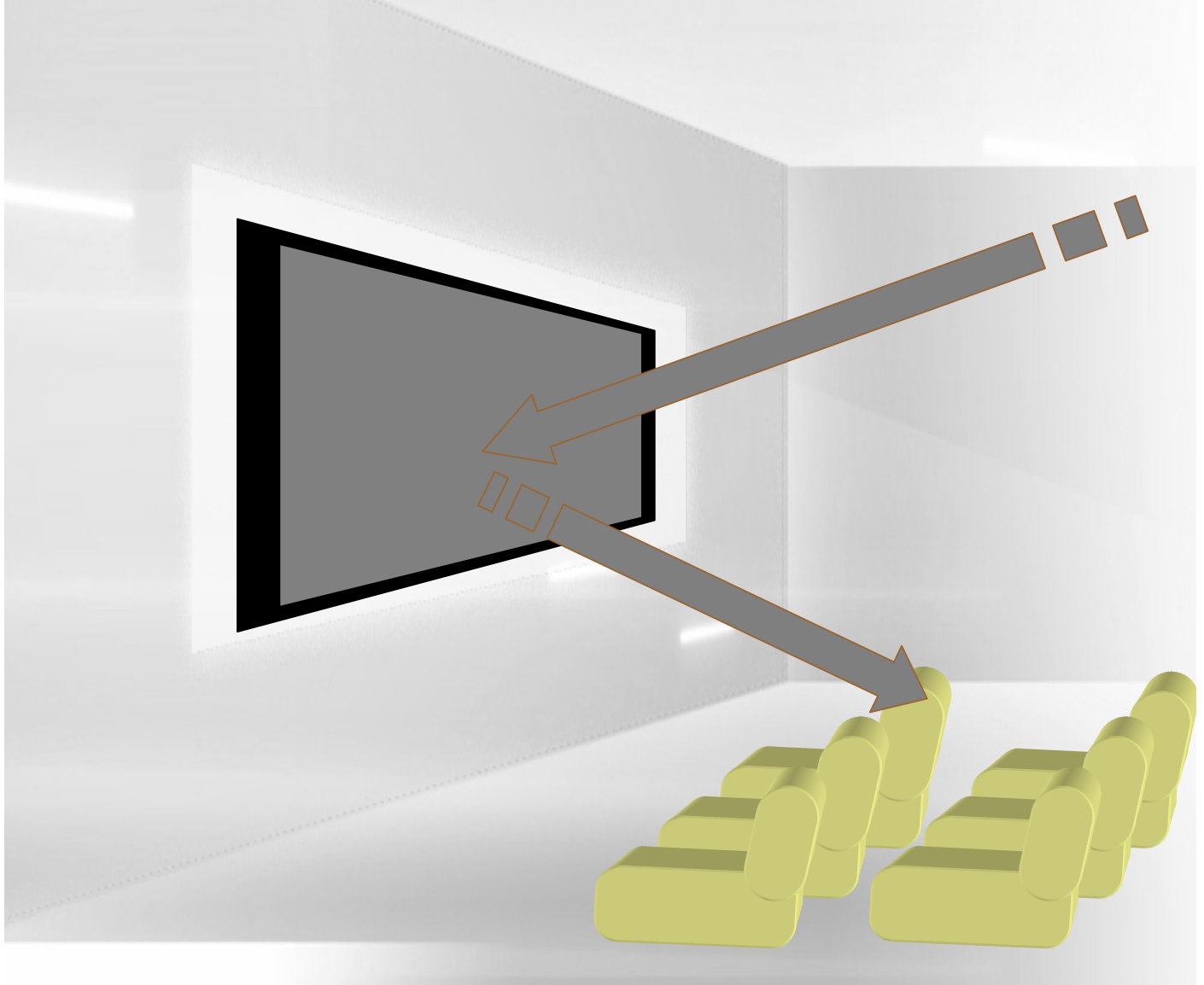
Avoid allowing strong ambient light (such as direct sunlight) from projector position to the screen.

To minimize diffused reflection on the matte-surface of the screen, avoid lighting that directly hits the screen surface.

Diffused reflection on the matte-surface causes the image (picture) on the screen to appear washed out and reduces image (picture) contrast.

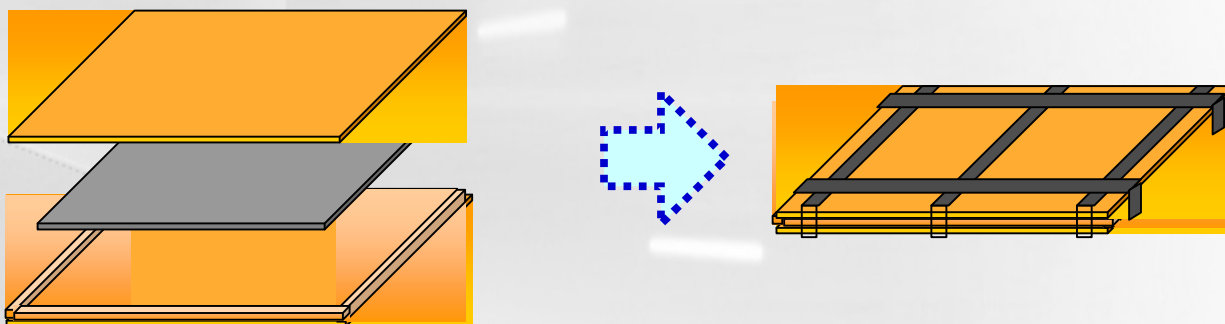
Lens characteristics of the projector, i.e. short or long throwing distance, determine the relationship between desired picture size and the effective position/distance of the projector.

Lens characteristics of the projector should be considered when designing the theater room.



Packaging

All screens are packed and shipped individually in reinforced cardboard packaging, suitable for international shipment.



Packaging Estimated measurement and weight of packing

Cardboard packaging dimension and Weight

*Total Package Weight includes screen weight.

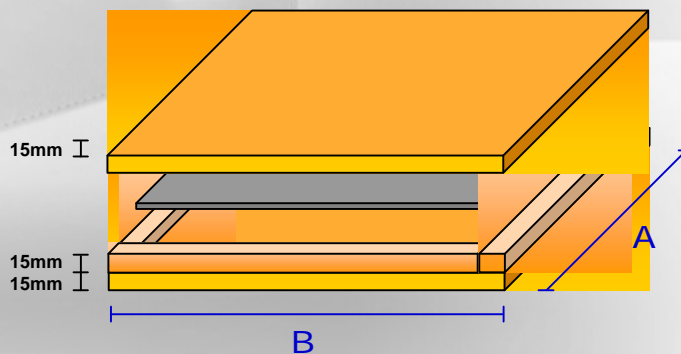
16:9 Aspect Ratio

Screen Size	Total Package Thickness	Package Dimension	Total Package Weight *	
		A x B	A/W	V/W
80"	45 (1.77)	1160 x 1940 (46) x (76)	16 (35)	17 (37)
100"	45 (1.77)	1410 x 2380 (56) x (94)	33 (73)	25 (55)
120"	45 (1.77)	1660 x 2820 (65) x (111)	47 (104)	35 (77)

4:3 Aspect Ratio

Screen Size	Total Package Thickness	Package Dimension	Total Package Weight *	
		A x B	A/W	V/W
80"	45 (1.77)	1380 x 1790 (54) x (70)	24 (53)	19 (42)
100"	45 (1.77)	1690 x 2200 (67) x (87)	37 (81)	28 (62)

*A/W = Actual Weight
V/W = Volume Weight



Handling Instruction

Please read the following instruction carefully before using and handling the screen. Mishandling the screen may cause serious loss of its optical characteristic, or may cause you injury.

1) Protection Film

A clear protective surface film is attached on the surface of BOS-F5711WL. Please do not forget to remove clear protective surface film before using.

2) Physical Damage

Do not hit, knock, scratch or rub the surface of the screen when using and handling. There is a micro-matte diffusion surface layer on the screen surface which functions to make "hot spotting" inconspicuous. Although its hardness is about 2H pencil hardness, the micro-matte diffusion surface layer and its function may be damaged in case of rough handling such as knocking and rubbing by hard or soft materials. When touching the screen surface is needed during handling, place soft cloth or film on the surface and avoid touching it directly.

3) Installation

When mounting the screen into screen frame or wall, remove the protection film only in necessary area around the edge and keep it attached as long as possible right before using. If removing the protection film is necessary before or during installation, be very careful with screen surface and avoid knocking, rubbing and touching.

The edge of the screen board might be sharp so please be very careful with the edge of the screen to avoid cutting the finger or hands.

4) Cleaning & Maintenance

When cleaning the screen surface, gently wipe with dry soft cloth. Make certain cloth does not contain foreign particles that may damage the screen during cleaning. Avoid contact of oil or grease material to the screen surface. It may cause exfoliation of micro-matte diffusion surface layer. For stains, spray a small amount of diluted neutral detergent (about 2 to 3 drops for 1 liter of water) and gently wipe with dry soft flannel.

5) Fire Precautions

Screen should never be set up anywhere near flames, high heat, or high heat lighting as Screen materials are a combustible. Hi-heat exposure will damage Screen.