

HP Evaluated Foams Industry Standard Servers

HP has determined that density alone is no longer a good indicator of foam performance. HP will also specify a requirement for the foam to meet a compressive creep characteristics as specified by ASTM D3575 Suffix BB. The foams listed below have been evaluated. Any other foam MUST be evaluated before it can be utilized.

Approved Foams

1.2 PCF material

actual density 1.2 – 1.7 pcf

preferred color = light green

Not more than 10% compression creep per ASTM D3575 suffix BB at 1.0 psi for 1000 hrs

Sealed Air

CelluPlank E (NY & TX)

Stratocell E (Italy)

Ethafoam 150 (NY & TX)

Dow

ETHAFOAM Nova

Krafoam 120

1.2 PCF

FAWO LAM 23

1.2 PCF (Jiading, Shanghai, China)

1.7 PCF material

actual density 1.6 – 1.9 pcf

preferred color = light blue

Not more than 10% compression creep per ASTM D3575 suffix BB at 1.25 psi for 1000 hrs

Sealed Air

Stratocell S (Italy)

CelluPlank 170 (Malaysia & China)

CelluPlank 170 (NY & TX)

Ethafoam 180 (NY & TX)

Dow

ETHAFOAM Select

Pactiv-Pregis

1.7 PCF PolyPlank Extruded Plank (NC & IN)

Asahi KASEI (Japan)

Suntec Foam B45

Modern Material Enterprise

Softlam 1.7 PCF

FAWO LAM

27 kg/m³ (Xiamen, China)

FAWOLAM 27

1.7 PCF (Jiading, Shanghai, China)

Fawoten 27

27 kg/m³ (Xiamen, China)

2 PCF material

actual density 2.0 – 2.4 pcf

preferred color = white

Not more than 10% compression creep per ASTM D3575 suffix BB at 2.0 psi for 1000 hrs

Sealed Air

CelluPlank 220 (Malaysia & China)

CelluPlank 220 (TX & NY)

Ethafoam 220 (TX)

Dow

ETHAFOAM 220

Asahi KASEI (Japan)

Suntec Foam Q35

Seksui (Japan)

2 PCF

Modern Material Enterprise

Softlam 2.2 PCF

FAWO LAM

35 kg/m³ (Xiamen, China)

FAWO LAM 35

2.2 PCF (Jiading, Shanghai, China)

Pregis Polyplank

2.2 PCF (Plymouth, IN)

4, 6 & 9 pcf FOAM DO NOT HAVE ANY EXCLUSIONS (3-25-2005)

Note: "Laminated" must be included in the material note before it may be included quote/production.

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Foams that need to be excluded due to excessive compressive creep

1.2 PCF material		actual density 1.2 – 1.7 pcf
Not more than 10% compression creep per ASTM D3575 suffix BB at 1.0 psi for 1000 hrs		
		Creep %
Sealed Air	Stratocell E (Texas)	15%
	Stratocell E (New York)	30%
	Stratocell 120 (Brazil)	21%
	Stratocell E (England)	16%
	Stratocell 120 (Malaysia)	17%
	Stratocell 120 (U.S.)	14%
FAWO LAM (Malaysia)	23 kg/m3	20%
Pregis	1.2 PCF H-Cell Laminated Plank (NC & IN)	20%
CADPLAST	Cadlam 28 BR (Brazil)	11%

1.7 PCF material		actual density 1.6 – 1.9 pcf
Not more than 10% compression creep per ASTM D3575 suffix BB at 1.25 psi for 1000 hrs		
		Creep %
Sealed Air	Stratocell 170 (Brazil)	23%
	Stratocell S (England)	16%
	Stratocell 170 (Malaysia)	16%
	Stratocell S (Kettering, UK)	>11% at 864 hours
	Stratocell S (Texas)	13%
	Stratocell (New York)	52%
	CelluPlank 170 (CA)	13%
	Dow	PC17
WingFung	1.7~1.8PCF laminate	>10% @600 hours
Sheawa (Korea)	1.9 to 2.2 PCF	*
Dunam (Korea)	1.7 TO 2.2 PCF	*
Modern (Taiwan)	1.9 PCF	*
Lai Advance (Taiwan)	1.9 PCF	*
Associate-Airpax (Malaysia)	1.7 TO 2.2 PCF	*
FAWO LAM (Malaysia)	27 kg/m3	15%
King Door	1.7 PCF	>10% @ 168 hrs
JINGJIA (KUNSHAN)	1.7 PCF	>18%
Pregis	1.7 PCF H-Cell Laminated Plank (NC & IN)	32%
Superpack (India)	1.7 PCF	>15%
Supreme (India)	1.7 PCF	>15%
ShenZhen HongXinYuan Science and Tech CO, LTD	1.7 PCF	>11%
Krafoam	1.8 PCF	>18%
CADPLAST	Cadlam 30 BR (Brazil)	13%

* compression creep test results tested can be from range of 9% to 13%.

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Foams that need to be excluded due to excessive compressive creep

2 PCF material

actual density 2.0 – 2.4 pcf

Not more than 10% compression creep per ASTM D3575 suffix BB at 2.0 psi for 1000 hrs

		Creep %
Sealed Air	Cellulplank 220 (CA)	11%
	Stratocell 220 (Brazil)	17%
	Sratocell 220 (Malaysia)	14%
	Strotocell H (Italy)	44%
	Stratocell H (Texas)	30%
	Stratocell H (New York)	44%
	Ethafoam 220 (New York)	18%
Dow	PC20	~20%
Hanwha	2.0 PCF laminate	>10% at 200 hours
Boonma	2.0 PCF laminate	>10% @ 24 hours
Sheawa (Korea)	1.9 to 2.2 PCF	*
Dunam (Korea)	1.7 TO 2.2 PCF	*
Modern (Taiwan)	1.9 PCF	*
Lai Advance (Taiwan)	1.9 PCF	*
Associate-Airpax (Malaysia)	1.7 TO 2.2 PCF	*
FAWO LAM (Malaysia)	35 kg/m3	15%
JINGJIA (KUNSHAN)	2.2 PCF	>18%
Pregis	2.2 PCF PolyPlank Extruded Plank (NC)	17%
Pregis	2.2 PCF H-Cell Laminated Plank (NC)	36%
Superpack (India)	2 PCF	>15%
Supreme (India)	2 PCF	>15%
Krafoam	2 PCF	>15%

* compression creep test results tested can be from range of 9% to 13%.