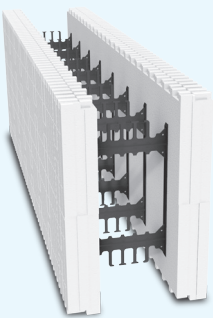
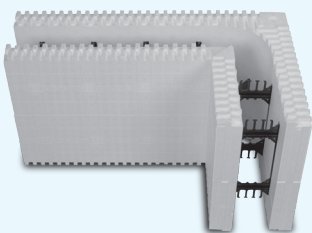
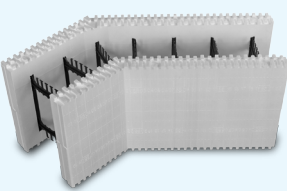
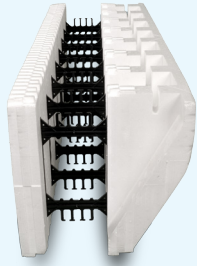


1.4 PRODUCT SPECIFICATIONS (IMPERIAL)

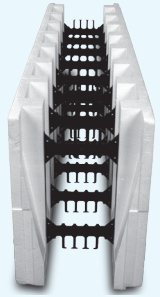
BUILDBLOCK STRAIGHT	SPECIFICATIONS	4" STRAIGHT*	6" STRAIGHT	8" STRAIGHT
	LENGTH	48"	48"	48"
	WIDTH	9" [4" Core]	11" [6" Core]	13" [8" Core]
	HEIGHT	16"	16"	16"
	RETURN	NA	NA	NA
	CONCRETE VOLUME	.065844 yd ³	.098765 yd ³	.131687 yd ³
	SURFACE AREA	5.33 ft ²	5.33 ft ²	5.33 ft ²
	EPS DIMENSION	2½" each panel	2½" each panel	2½" each panel
	QTY PER BUNDLE	15	12	12
	PRODUCT ID	BB-400	BB-600	BB-800

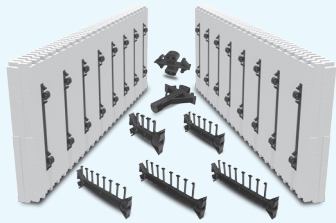
90 DEGREE CORNER	SPECIFICATIONS	4" 90 ° CORNER	6" 90 ° CORNER	8" 90° CORNER
	LENGTH	31" (ext.) / 22" (int.)	33" (ext.) / 22" (int.)	35" (ext.) / 22" (int.)
	WIDTH	9" [4" Core]	11" [6" Core]	13" [8" Core]
	HEIGHT	16"	16"	16"
	RETURN	19" (ext.) / 10" (int.)	21" (ext.) / 10" (int.)	23" (ext.) / 10" (int.)
	CONCRETE VOLUME	.054574 yd ³	.086528 yd ³	.121517 yd ³
	SURFACE AREA	5.56 ft ²	6.00 ft ²	6.44 ft ²
	EPS DIMENSION	2½" each panel	2½" each panel	2½" each panel
	QTY PER BUNDLE	12	12	12
	PRODUCT ID	BB-490	BB-690	BB-890

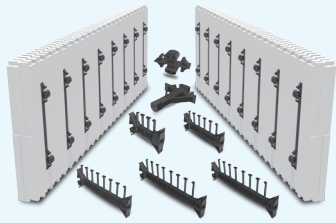
45-DEGREE CORNER	SPECIFICATIONS	4" 45-DEGREE CORNER	6" 45-DEGREE CORNER	8" 45-DEGREE CORNER
	LENGTH	28" (ext.) / 24.272" (int.)	28" (ext.) / 23.444" (int.)	28" (ext.) / 22.615" (int.)
	WIDTH	9" [4" Core]	11" [6" Core]	13" [8" Core]
	HEIGHT	16"	16"	16"
	RETURN	16" (ext.) / 12.272" (int.)	16" (ext.) / 11.444" (int.)	16" (ext.) / 10.615" (int.)
	CONCRETE VOLUME	.054985 yd ³	.080841 yd ³	.105425 yd ³
	SURFACE AREA	4.89 ft ²	4.89 ft ²	4.89 ft ²
	EPS DIMENSION	2½" each panel	2½" each panel	2½" each panel
	QTY PER BUNDLE	12	12	12
	PRODUCT ID	BB-445	BB-645	BB-845

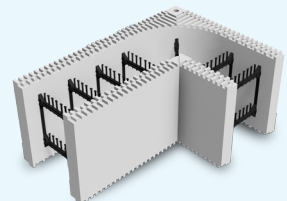
BRICKLEDGE	SPECIFICATIONS	6" BRICKLEDGE	8" BRICKLEDGE
	LENGTH	48"	48"
	BOTTOM WIDTH	11" [6" Core]	13" [8" Core]
	TOP WIDTH	16"	18"
	HEIGHT	16"	16"
	RETURN	NA	NA
	CONCRETE VOLUME	Entire block: .134148 Corbels only: .035556	Entire block: .167074 Corbels only: .035556
	SURFACE AREA	5.33 ft ²	5.33 ft ²
	EPS DIMENSION	2½" inside panel; 1" min. outside panel	2½" inside panel; 1" min. outside panel
	QTY PER BUNDLE	6	6
	PRODUCT ID	BB-6BL	BB-8BL

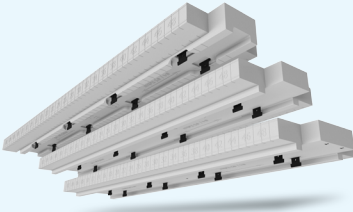
1.4 PRODUCT SPECIFICATIONS (IMPERIAL)

DOUBLE TAPER TOP	SPECIFICATIONS		6" DOUBLE TAPER TOP	8" DOUBLE TAPER TOP
	LENGTH		48"	48"
	WIDTH		11" (6" Core)	13" (8" Core)
	HEIGHT		16"	16"
	RETURN		NA	NA
	CONCRETE VOLUME		.130128 yd ³ Corbels only: .031363	.16305 yd ³ Corbels only: .031363
	SURFACE AREA		5.33 ft ²	5.33 ft ²
	EPS DIMENSION		2½" each panel	2½" each panel
	QTY PER BUNDLE		12	12
	PRODUCT ID		BB-6DT	BB-8DT

BUILDLOCK KNOCKDOWN	SPECIFICATIONS	4" KD	6" KD	8" KD
	LENGTH	48"	48"	48"
	WIDTH	9" (4" Core)	11" (6" Core)	13" (8" Core)
	HEIGHT	16"	16"	16"
	RETURN	NA	NA	NA
	CONCRETE VOLUME	.065844 yd ³	.098765 yd ³	.131687 yd ³
	SURFACE AREA	5.33 ft ²	5.33 ft ²	5.33 ft ²
	EPS DIMENSION	2½" each panel	2½" each panel	2½" each panel
	QTY PER BUNDLE	12	12	12
	PRODUCT ID	BL-400	BL-600	BL-800

BUILDLOCK KNOCKDOWN	SPECIFICATIONS	10" KD	12" KD	
	LENGTH	48"	48"	Larger sizes may be created using the BuildLock Bridge Clip Connector.
	WIDTH	15" (10" Core)	17" (12" Core)	
	HEIGHT	16"	16"	
	RETURN	NA	NA	
	CONCRETE VOLUME	.164609 yd ³	0.197529 yd ³	
	SURFACE AREA	5.33 ft ²	5.33 ft ²	
	EPS DIMENSION	2½" each panel	2½" each panel	
	QTY PER BUNDLE	16 blocks/32 panels	16 blocks/32 panels	
	PRODUCT ID	BL-1000	BL-1200	

BUILDLOCK KNOCKDOWN 90-DEGREE	SPECIFICATIONS	10" KD 90-DEGREE	12" KD 90-DEGREE	
	LENGTH	37" (ext) / 22" (int.)	39" (ext) / 22" (int.)	BuildLock 4", 6", and 8" use regular BuildBlock Dedicated Corner Forms
	WIDTH	15" (10" Core)	17" (12" Core)	
	HEIGHT	16"	16"	
	RETURN	25" (ext) / 10" (int.)	27" (ext) / 10" (int.)	
	CONCRETE VOLUME	0.151444 yd ³	0.191408 yd ³	
	SURFACE AREA	6.88 sq.ft.	7.33 sq.ft.	
	EPS DIMENSION	2½" each panel	2½" each panel	
	QTY PER BUNDLE	8 blocks/16 panels	8 blocks/16 panels	
	PRODUCT ID	BL-1090	BL-1290	

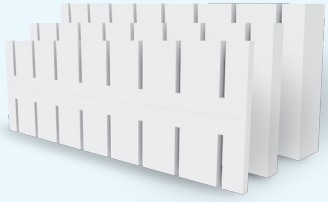
BUILDBUCK ICF BUCKING	SPECIFICATIONS	4"	6"	8"
	LENGTH	52" (48" Nominal)	52" (48" Nominal)	52" (48" Nominal)
	WIDTH	9"	11"	13"
	HEIGHT	2"	2"	2"
	WEIGHT	3.5lbs	4lbs	4.5lbs
	SURFACE AREA	3.125ft ²	3.82ft ²	4.51ft ²
	QTY PER BUNDLE	19	18	16
	R-VALUE	8.4	8.4	8.4
	COMPATIBLE PRODUCTS	BB-400 BL-400 GB-400	BB-600 BL-600 GB-600	BB-800 BL-800 GB-800
	PRODUCT ID	BK-400	BK-600	BK-800
BuildBuck is fully compatible with all BuildBlock, BuildLock KD, and GlobalBlock ICF forms of the same size.				

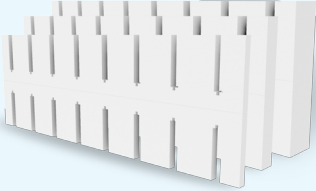
1.4 PRODUCT SPECIFICATIONS (IMPERIAL)

BUILDDECK	SPECIFICATIONS	8"	10"	12"
	LENGTH	24"	24"	24"
	WIDTH	24"	24"	24"
	HEIGHT	8"	10"	12"
	RETURN	NA	NA	NA
	CONCRETE VOLUME	.051111*	.055854*	.060432*
	SURFACE AREA	4 ft ²	4 ft ²	4 ft ²
	EPS DIMENSION	8"	10"	12"
	QTY PER BUNDLE	24	20	16
	PRODUCT ID	BD-800	BD-1000	BD-1200
Additional foam may be added to the BuildDeck panels increasing the beam depth, span length, and insulation value. See BuildDeck Design Manual for additional information.				

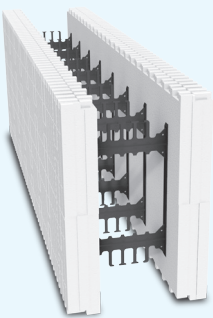
BUILDBLOCK HARD WALL	SPECIFICATIONS	4"	6"	8"
	LENGTH	48"	48"	48"
	WIDTH	8½"	10½"	12½"
	HEIGHT	16"	16"	16"
	CONCRETE CORE	6"	8"	10"
	CONCRETE VOLUME	.098765 yd ³	.131687 yd ³	.164609 yd ³
	SURFACE AREA	5.33 ft ²	5.33 ft ²	5.33 ft ²
	EPS DIMENSION	2½" each panel	2½" each panel	2½" each panel
	QTY PER BUNDLE	32	32	32
	PRODUCT ID	HW-400	HW-600	HW-800

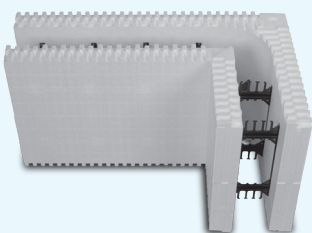
BUILDBLOCK HARD WALL	SPECIFICATIONS	10"	12"	
	LENGTH	48"	48"	
	WIDTH	14½"	16½"	
	HEIGHT	16"	16"	
	CONCRETE CORE	12"	14"	
	CONCRETE VOLUME	0.197529 yd ³	.230449 yd ³	
	SURFACE AREA	5.33 ft ³	5.33 ft ³	
	EPS DIMENSION	2½" each panel	2½" each panel	
	QTY PER BUNDLE	32	32	
	PRODUCT ID	HW-1000	HW-1200	

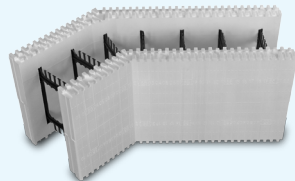
BUILDBLOCK THERMALERT	SPECIFICATIONS	1"	2"	4"
	LENGTH	48"	48"	48"
	WIDTH	1"	2"	4"
	HEIGHT	16"	16"	16"
	R-Value	+4.2	+8.4	+16.8
	CONCRETE DISPLACEMENT	.014999421 yd ³	.030002851 yd ³	.060009709 yd ³
	APPLICABLE FORMS	BB-400, BB-600, BB-800		
	SURFACE AREA	5.33 ft ³	5.33 ft ³	5.33 ft ³
	EPS DIMENSION			
	QTY PER BUNDLE	150	75	36
	PRODUCT ID	BTS-100	BTS-200	BTS-400
Caution: Changing final concrete core dimensions outside of prescriptive or BuildBlock Engineering will require project specific engineering and appropriate reinforcement as well as compliance with local codes. BuildBlock does not assume any liability for misuse of its products.				

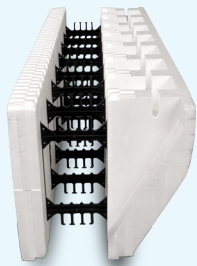
BUILDBLOCK THERMALCERT KNOCKDOWN	SPECIFICATIONS	1"	2"	4"
	LENGTH	48"	24"	
	WIDTH	1"	2"	
	HEIGHT	16"	12"	
	R-VALUE	+4.2	+8.4	+16.8
	CONCRETE DISPLACEMENT	.01405099 yd³	.028105989 yd³	.056215985 yd³
	APPLICABLE FORMS	BL-400, BL-600, BL-800, BL-1000, BL-1200+		
	SURFACE AREA	5.33 ft²	5.33 ft²	5.33 ft²
	EPS DIMENSION			
	QTY PER BUNDLE	150	75	36
	PRODUCT ID	BLTS-100	BLTS-200	BLTS-400
Caution: Changing final concrete core dimensions outside of prescriptive or BuildBlock Engineering will require project specific engineering and appropriate reinforcement as well as compliance with local codes. BuildBlock does not assume any liability for misuse of its products.				

1.5 PRODUCT SPECIFICATIONS (METRIC)

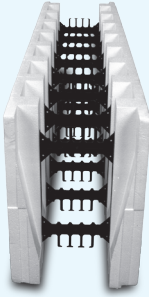
BUILDBLOCK STRAIGHT	SPECIFICATIONS	4" STRAIGHT*	6" STRAIGHT	8" STRAIGHT
	LENGTH	1219mm	1219mm	1219mm
	WIDTH	228mm (101mm Core)	279mm (152mm Core)	330mm (203mm Core)
	HEIGHT	406mm	406mm	406mm
	RETURN	NA	NA	NA
	CONCRETE VOLUME	.050341 m ³	.075511 m ³	.100682 m ³
	SURFACE AREA	.4951 m ²	.4951 m ²	.4951 m ²
	EPS DIMENSION	63mm each panel	63mm each panel	63mm each panel
	QTY PER BUNDLE	15	12	12
	PRODUCT ID	BB-400	BB-600	BB-800

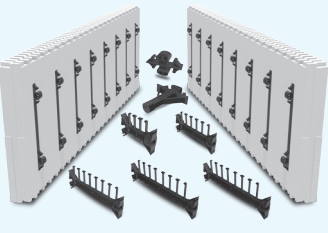
90 DEGREE CORNER	SPECIFICATIONS	4" 90 ° CORNER	6" 90 ° CORNER	8" 90° CORNER
	LENGTH	787mm (ext.) / 558mm (int.)	787mm (ext.) / 558mm (int.)	787mm (ext.) / 558mm (int.)
	WIDTH	228mm (101mm Core)	279mm (152mm Core)	330mm (203mm Core)
	HEIGHT	406mm	406mm	406mm
	RETURN	482mm (ext.) / 254mm (int.)	533mm (ext.) / 254mm (int.)	584mm (ext.) / 254mm (int.)
	CONCRETE VOLUME	.041725 m ³	.066155 m ³	.092906 m ³
	SURFACE AREA	.5165 m ²	.5574 m ²	.5983 m ²
	EPS DIMENSION	63mm each panel	63mm each panel	63mm each panel
	QTY PER BUNDLE	12	12	12
	PRODUCT ID	BB-490	BB-690	BB-890

45-DEGREE CORNER	SPECIFICATIONS	4" 45-DEGREE CORNER	6" 45-DEGREE CORNER	8" 45-DEGREE CORNER
	LENGTH	711.2mm (ext.) / 558mm (int.)	711.2mm (ext.) / 595mm (int.)	711.2mm (ext.) / 574mm (int.)
	WIDTH	228mm (101mm Core)	279mm (152mm Core)	330mm (330mm Core)
	HEIGHT	406mm	406mm	406mm
	RETURN	406mm (ext.) / 311mm (int.)	406mm (ext.) / 290mm (int.)	406mm (ext.) / 269mm (int.)
	CONCRETE VOLUME	.042039 m ³	.061807 m ³	.08060 m ³
	SURFACE AREA	.4542 m ²	.4542 m ²	.4542 m ²
	EPS DIMENSION	63mm each panel	63mm each panel	63mm each panel
	QTY PER BUNDLE	12	12	12
	PRODUCT ID	BB-445	BB-645	BB-845

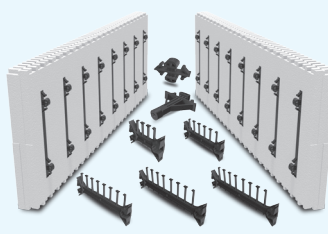
BRICKLEDGE	SPECIFICATIONS	6" BRICKLEDGE	8" BRICKLEDGE
	LENGTH	1219mm	1219mm
	BOTTOM WIDTH	279mm (152mm Core)	330mm (203mm Core)
	TOP WIDTH	406mm	457mm
	HEIGHT	406mm	406mm
	RETURN	NA	NA
	CONCRETE VOLUME	Entire block: .102564m ³ Corbels only: .027184m ³	Entire block: .127737m ³ Corbels only: .077184m ³
	SURFACE AREA	.3716 m ²	.3716 m ²
	EPS DIMENSION	63.5mm inside; 254mm min. outside	63.5mm inside; 254mm min. outside
	QTY PER BUNDLE	6	6
	PRODUCT ID	BB-6BL	BB-8BL

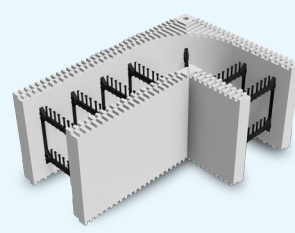
1.5 PRODUCT SPECIFICATIONS (METRIC)

DOUBLE TAPER TOP	SPECIFICATIONS		6" DOUBLE TAPER TOP	8" DOUBLE TAPER TOP
	LENGTH		1219mm	1219mm
	WIDTH		279mm (152mm Core)	330mm (203mm Core)
	HEIGHT		406mm	406mm
	RETURN		NA	NA
	CONCRETE VOLUME		.099489 m ³ Corbels only: .031363	.124660 m ³ Corbels only: .031363
	SURFACE AREA		.4951m ²	.4951 m ²
	EPS DIMENSION		63mm each panel	63mm each panel
	QTY PER BUNDLE		12	12
	PRODUCT ID		BB-6DT	BB-8DT

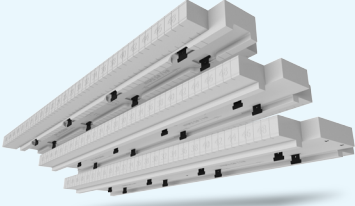
BUILD BLOCK KNOCKDOWN	SPECIFICATIONS	4" KD	6" KD	8" KD
	LENGTH	1219mm	1219mm	1219mm
	WIDTH	228mm (101mm Core)	279mm (152mm Core)	330 (203 Core)
	HEIGHT	406mm	406mm	406mm
	RETURN	NA	NA	NA
	CONCRETE VOLUME	.050341 m ³	.07551 m ³	.100682 m ³
	SURFACE AREA	.4951 m ²	.4951 m ²	.4951 m ²
	EPS DIMENSION	63mm each panel	63mm each panel	63mm each panel
	QTY PER BUNDLE	12	12	12
	PRODUCT ID	BL-400	BL-600	BL-800

1.5 PRODUCT SPECIFICATIONS (METRIC)

BUILDLOCK KNOCKDOWN	SPECIFICATIONS	10" KD	12" KD	
	LENGTH	1219mm	1219mm	Larger sizes may be created using the BuildLock Bridge Clip Connector.
	WIDTH	381mm (254mm Core)	431mm (304mm Core)	
	HEIGHT	406mm	406mm	
	RETURN	NA	NA	
	CONCRETE VOLUME	.125852 m ³	.151022 m ³	
	SURFACE AREA	.4951 m ²	.4951 m ²	
	EPS DIMENSION	63mm each panel	63mm each panel	
	QTY PER BUNDLE	16 blocks/32 panels	16 blocks/32 panels	
	PRODUCT ID	BL-1000	BL-1200	

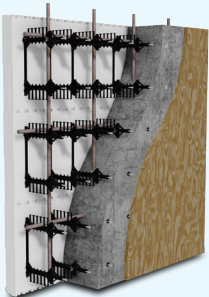
BUILDLOCK KNOCKDOWN 90-DEGREE	SPECIFICATIONS	10" KD 90-DEGREE	12" KD 90-DEGREE	
	LENGTH	939mm (ext) / 558mm (int.)	990mm (ext) / 558mm (int.)	BuildLock 4", 6", and 8" use regular BuildBlock Dedicated Corner Forms
	WIDTH	381mm (254mm Core)	431mm (304mm Core)	
	HEIGHT	406mm	406mm	
	RETURN	635mm (ext) / 254mm (int.)	685mm (ext) / 254mm (int.)	
	CONCRETE VOLUME	.115787 m ³	.146341 m ³	
	SURFACE AREA	.6391 m ²	.6809 m ²	
	EPS DIMENSION	63mm each panel	63mm each panel	
	QTY PER BUNDLE	8 blocks/16 panels	8 blocks/16 panels	
	PRODUCT ID	BL-1090	BL-1290	

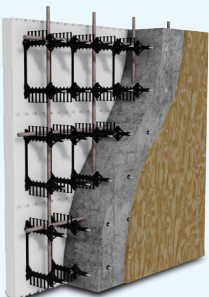
1.5 PRODUCT SPECIFICATIONS (METRIC)

BUILDBUCK ICF BUCKING	SPECIFICATIONS	4"	6"	8"
	LENGTH	1320.8mm (1219.2mm Nominal)	1320.8mm (1219.2mm Nominal)	1320.8mm (1219.2mm Nominal)
	WIDTH	228.6mm	279.4mm	330.2mm
	HEIGHT	50.8mm	50.8mm	50.8mm
	WEIGHT	1.58kg	1.81kg	2.04kg
	SURFACE AREA	.2190m ²	.3550m ²	.4190m ²
	QTY PER BUNDLE	19	18	16
	U-VALUE	.1190	.1190	.1190
	COMPATIBLE PRODUCTS	BB-400 BL-400 GB-400	BB-600 BL-600 GB-600	BB-800 BL-800 GB-800
	PRODUCT ID	BK-400	BK-600	BK-800
BuildBuck is fully compatible with all BuildBlock, BuildLock KD, and GlobalBlock ICF forms of the same size.				

BUILDDECK	SPECIFICATIONS	8"	10"	12"
	LENGTH	609mm	609mm	609mm
	WIDTH	609mm	609mm	609mm
	HEIGHT	203mm	254mm	304mm
	RETURN	NA	NA	NA
	CONCRETE VOLUME	.051111 m ³	.055854 m ³	.060432 m ³
	SURFACE AREA	.3716 m ²	.3716 m ²	.3716 m ²
	EPS DIMENSION	203mm	254mm	304mm
	QTY PER BUNDLE	24	20	16
	PRODUCT ID	BD-800	BD-1000	BD-1200
Additional foam may be added to the BuildDeck panels increasing the beam depth, span length, and insulation value. See BuildDeck Design Manual for additional information.				

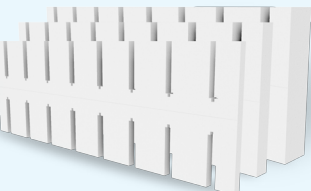
1.5 PRODUCT SPECIFICATIONS (METRIC)

BUILDBLOCK HARD WALL	SPECIFICATIONS	4"	6"	8"
	LENGTH	1219 mm	1219 mm	1219 mm
	WIDTH	216 mm	266 mm	317 mm
	HEIGHT	406 mm	406 mm	406 mm
	CONCRETE CORE	152 mm	203 mm	254 mm
	CONCRETE VOLUME	0.075511 m ³	0.100682 m ³	0.125853 m ³
	SURFACE AREA	0.495 m ²	0.495 m ²	0.495 m ²
	EPS DIMENSION	63.5 mm each panel	63.5 mm each panel	63.5 mm each panel
	QTY PER BUNDLE	32	32	32
	PRODUCT ID	HW-400	HW-600	HW-800

BUILDBLOCK HARD WALL	SPECIFICATIONS	10"	12"	
	LENGTH	1219 mm	1219 mm	
	WIDTH	368 mm	419 mm	
	HEIGHT	406 mm	406 mm	
	CONCRETE CORE	304 mm	355 mm	
	CONCRETE VOLUME	.151022 m ³	0.176191 m ³	
	SURFACE AREA	0.495 m ²	0.495 m ²	
	EPS DIMENSION	63.5 mm each panel	63.5 mm each panel	
	QTY PER BUNDLE	32	32	
	PRODUCT ID	HW-1000	HW-1200	

BUILDBLOCK THERMALERT	SPECIFICATIONS	1"	2"	4"
	LENGTH	48"	48"	48"
	WIDTH	1"	2"	4"
	HEIGHT	16"	16"	16"
	R-Value	+4.2	+8.4	+16.8
	CONCRETE DISPLACEMENT	.014999421 yd ³	.030002851 yd ³	.060009709 yd ³
	APPLICABLE FORMS	BB-400, BB-600, BB-800		
	SURFACE AREA	5.33 ft ³	5.33 ft ³	5.33 ft ³
	EPS DIMENSION			
	QTY PER BUNDLE	150	75	36
	PRODUCT ID	BTS-100	BTS-200	BTS-400

Caution: Changing final concrete core dimensions outside of prescriptive or BuildBlock Engineering will require project specific engineering and appropriate reinforcement as well as compliance with local codes. BuildBlock does not assume any liability for misuse of its products.

BUILDBLOCK THERMALERT KNOCKDOWN	SPECIFICATIONS	1"	2"	4"
	LENGTH	48"	24"	
	WIDTH	1"	2"	
	HEIGHT	16"	12"	
	R-VALUE	+4.2	+8.4	+16.8
	CONCRETE DISPLACEMENT	.01405099 yd ³	.028105989 yd ³	.056215985 yd ³
	APPLICABLE FORMS	BL-400, BL-600, BL-800, BL-1000, BL-1200+		
	SURFACE AREA	5.33 ft ³	5.33 ft ³	5.33 ft ³
	EPS DIMENSION			
	QTY PER BUNDLE	150	75	36
	PRODUCT ID	BLTS-100	BLTS-200	BLTS-400

Caution: Changing final concrete core dimensions outside of prescriptive or BuildBlock Engineering will require project specific engineering and appropriate reinforcement as well as compliance with local codes. BuildBlock does not assume any liability for misuse of its products.

1.6 PRODUCT TECHNICAL DETAILS

SPECIFICATION	IMPERIAL	METRIC
Expanded Polystyrene density	1.5 lbs./cu.ft.	24.02769 kg/m ³
Average thickness of EPS	2½" per panel (5" total)	12.7cm (6.35cm per panel)
Material R-value	R-22 Foam Value	R-22 Foam Value
Performance R-value (concrete, form R-value, air infiltration reduction, and thermal mass)	R-30 to R-52	R-30 to R-52 U 0.33 to U 0.02
Actual R-value per inch of EPS Foam	4.2/inch	
Thermal Mass (form & concrete)	4" Core: 47.5 lbs./ft ² 6" Core: 72 lbs/ft ² 8" Core: 96 lbs/ft ² 10" Core: 119 lbs/ft ² 12" Core: 143 lbs/ ft ²	4" Core: 231.9 kg/m ² 6" Core: 351.5 kg/m ² 8" Core: 468.7 kg/m ² 10" Core: 581.0 kg/m ² 12" Core: 698.2 kg/m ²
K-Factor	.24/inch	
Water absorption	- 3% (ASMC272)	- 3% (ASMC272)
Water vapor	0.56 perms per 2½" Panel	0.84 metric perms per 2½" Panel
Sound class	52 with ½" sheet rock on inside	52 with ½" sheet rock on inside
Fire wall	3 Hour Fire Rating on BB-600 Wall (Loading 5,000 lb. per lineal feet throughout test.) (Post test loading 12,000 lbs. per lineal foot with no additional depletion.)	3 Hour Fire Rating on BB-600 Wall (Loading 7440.6 kg/m throughout test.) (Post test loading 17857.9 kg/m with no additional depletion.)
Concrete compressive strength	Recommended 3000 psi minimum	Recommended 20 MPa minimum
Recommended concrete pouring temperature*	15°F to 120°F*	[-9°C to 49°C]*
*Properly handled, specially formulated concrete can be poured at temperatures as low as -15°F (-26°C). Consult your ready mix company. Important: At temperatures below freezing, you must cover all exposed concrete with insulating material.		

ASTM STANDARDS PRODUCT TESTING

BuildBlock ICFs are evaluated to ensure they meet or exceed a variety of industry standards tests

PROPERTIES	ASTM TEST	RANGE REQUIRED	TEST VALUE
Density	ASTM D1622	1.5lb/ft ³	1.69lb/ft ²
Thermal Resistance	ASTM C177	4.0F.ft ² .h/Btu/in	4.08F.ft ² .h/Btu/in
Compressive Strength	ASTM D1621	15.0 psi	23.1 psi
Flexural Strength	ASTM C203	40.0 psi	50.4 psi
Flame Spread	ASTM E84	25 Maximum	>25
Smoke Developed	ASTM E84	450 Maximum	>450
Fire Wall Rating	ASTM E119		3hr
R-Value	ASTM C518	R-22	R-22
STC Rating	ASTM E413	STC 50	STC 50
Vapor Permanence	ASTM E96	3.5 perms/inch Maximum	2.04 perms/inch

STANDARD SPECIFICATION FOR RIGID, CELLULAR POLYSTYRENE THERMAL INSULATION

SPECIFICATION REFERENCE: ASTM C 578-92				TYPE I	TYPE VIII	TYPE II	TYPE IX
Property		Units	ASTM Test				
Density, minimum		(pcf)	D 303 or D 1622	0.90	1.15	1.35	1.80
Density Ranger		(pcf)	C 177 or C 518	0.90-1.14	1.15-1.34	1.35-1.79	1.80-2.20
Thermal Conductivity K Factor	at 25 F	BTU/(hr.)		0.23	.22	.21	.20
	at 40 F	(sq.ft.)(F/in.)		0.24	.235	.22	.21
	at 75 F			0.26	.255	.24	.23
Thermal Resistance R-value	at 25 F	at 1 inch		4.35	4.54	4.76	5.00
	at 40 F	thickness		4.17	4.25	4.55	4.76
	at 75 F			3.85	3.92	4.17	4.35
Strength Properties							
Compressive 10% Deformation		psi	D 1621	10-14	13-18	15-21	25-33
Flexural		psi	C 203	25-30	30-38	40-50	50-75
Tensile		psi	D 1623	16-20	17-21	18-22	23-27
Shear		psi	D 723	18-22	23-25	26-38	33-27
Shear Modulus		psi	_____	280-320	370-410	460-500	600-640
Modulus of Elasticity		psi	_____	180-220	250-310	320-360	460-500
Moisture Resistance							
WVT		perm. in		2.0-5.0	1.5-3.5	1.0-3.5	0.6-2.0
Absorption (vol.)		%		less than 4.0	less than 3.0	less than 3.0	less than 3.0
Capillarity		----		none	none	none	none
Coefficient of Thermal Expansion		in./(in.)(F)	D696	0.000035	0.000035	0.000035	0.000035
Maximum Service Temperature							
Long-term Exposure				167	167	167	167
Intermittent Exposure				180	180	180	180
Oxygen Index		%	D 2863	24.0	24.0	24.0	24.0