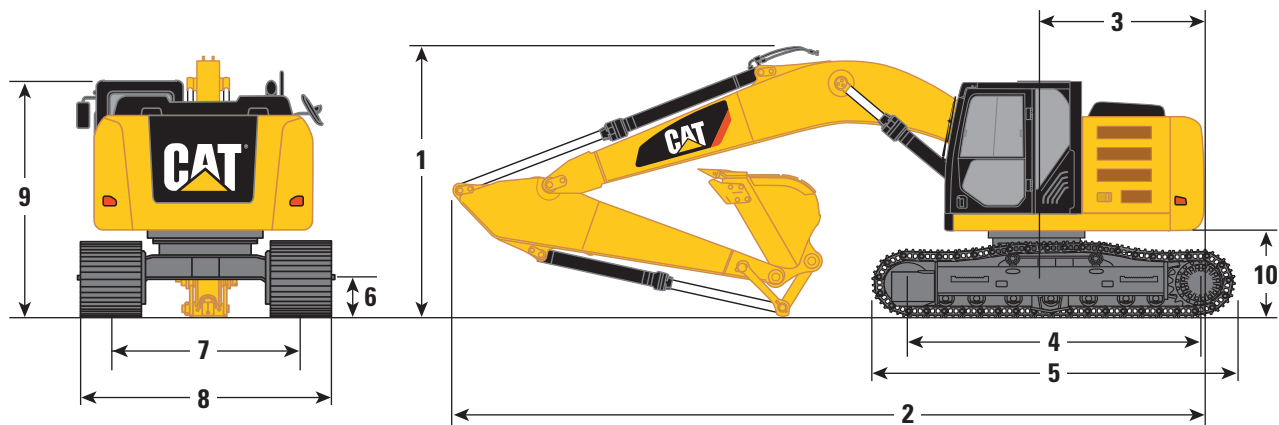


320E LRR Hydraulic Excavator

Dimensions

All dimensions are approximate.



Heavy Duty and Extreme Service Boom 5.7 m (18'8")

Stick	2.9B1 (9'6")*
	mm (ft)
1 Shipping Height**	3130 (10'3")
Shipping Height with Guard Rail	3150 (10'4")
Shipping Height with Top Guard	3150 (10'4")
2 Shipping Length	8970 (29'4")
3 Tail Swing Radius	2080 (6'8")
4 Length to Center of Rollers	3650 (12'0")
5 Track Length	4460 (14'7")
6 Ground Clearance	450 (1'6")
7 Track Gauge	2380 (7'10")
8 Transport Width	
600 mm (24") Shoes	2980 (9'9")
700 mm (28") Shoes	3080 (10'1")
790 mm (31") Shoes	3170 (10'5")
9 Cab Height	2960 (9'9")
Cab Height with Top Guard	3150 (10'4")
10 Counterweight Clearance***	1000 (3'3")

*Cat 1200 mm (48"), 1.56 yd³ HD bucket with 1571 mm (5'2") tip radius.

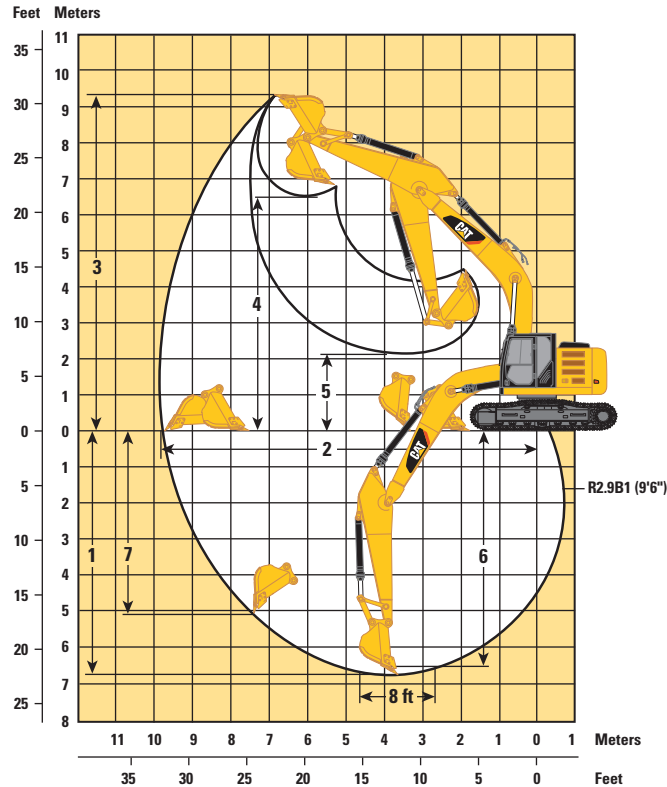
**Including shoe lug height without guard rail.

***Without shoe lug height.

320E LRR Hydraulic Excavator

Working Ranges

All dimensions are approximate.



Heavy Duty and Extreme Service Boom 5.7 m (18'8")

Stick	2.9B1 (9'6")*
	mm (ft)
1 Maximum Digging Depth	6720 (22'1")
2 Maximum Reach at Ground Level	9860 (32'4")
3 Maximum Cutting Height	9370 (30'9")
4 Maximum Loading Height	6490 (21'4")
5 Minimum Loading Height	2170 (7'1")
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 (21'6")
7 Maximum Vertical Wall Digging Depth	5060 (16'7")

*Cat 1200 mm (48"), 1.56 yd³ HD bucket with 1571 mm (5'2") tip radius.

320E LRR Hydraulic Excavator

Operating Weight and Ground Pressure

	790 mm (31") Triple Grouser Shoes		700 mm (28") Triple Grouser Shoes		600 mm (24") Triple Grouser Shoes	
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
Boom HD – 5.7 m (18'8")						
2.9B1 (9'6") HD	24 400 (53,790)	38.6 (5.60)	24 100 (53,130)	43.2 (6.27)	23 700 (52,250)	49.5 (7.18)
2.9B1 (9'6") ES	24 500 (54,010)	39.0 (5.66)	24 200 (53,350)	43.7 (6.34)	23 800 (52,470)	50.1 (7.27)
Boom ES – 5.7 m (18'8")						
2.9B1 (9'6") HD	24 700 (54,450)	39.1 (5.67)	24 400 (53,790)	43.7 (6.34)	24 000 (52,910)	50.2 (7.28)
2.9B1 (9'6") ES	24 900 (54,900)	39.3 (5.70)	24 600 (54,230)	43.9 (6.37)	24 200 (53,350)	50.4 (7.31)

Major Component Weights

	kg	lb
Base Machine (with boom cylinder, without counterweight, front linkage and track)	6500	14,330
Long Undercarriage	7850	17,300
Counterweight		
6.2 mt (6.8 ton)	6200	13,670
6.9 mt (7.6 ton)	6900	15,210
Boom (includes lines, pins and stick cylinder)		
Boom HD – 5.7 m (18'8")	1720	3,790
Boom ES – 5.7 m (18'8")	2010	4,430
Boom HD for CGC – 5.7 m (18'8")	1730	3,810
Boom ES for CGC – 5.7 m (18'8")	2020	4,450
Stick (includes lines, pins and bucket cylinder)		
2.9B1 (9'6") HD	680	1,510
2.9B1 (9'6") ES	840	1,850
2.9B1 (9'6") HD for CGC	690	1,530
2.9B1 (9'6") ES for CGC	850	1,880
Track Shoe (Long/per two tracks)		
600 mm (24") Triple Grouser	2700	5,940
700 mm (28") Triple Grouser	3070	6,780
790 mm (31") Triple Grouser	3360	7,410
790 mm (31") Triple Grouser HD	3800	8,370
Quick Coupler		
Center-Lock 252 (UQC)	420	920
Buckets		
B1 1200 mm (48") HD 347-6731 SAE 1.19 m ³ (1.56 yd ³)	930	2,050

All weights are rounded up to nearest 10 kg and lb except for quick coupler and buckets. Kg and lb were rounded up separately so some of the kg and lb do not match.

Base machine includes 75 kg (165 lb) operator weight, 90% fuel weight, and undercarriage with center guard.

320E LRR Hydraulic Excavator

Bucket and Stick Forces

	HD Boom 5.7 m (18'8")
Stick	R2.9B1 (9'6")
	B1 – Family Bucket kN (lbf)
General Duty	
Bucket Digging Force (SAE)	125.9 (28,300)
Stick Digging Force (SAE)	103.9 (23,400)
Heavy Duty	
Bucket Digging Force (SAE)	133.5 (30,000)
Stick Digging Force (SAE)	103.2 (23,200)
Severe Duty	
Bucket Digging Force (SAE)	133.5 (30,000)
Stick Digging Force (SAE)	103.2 (23,200)

320E LRR Hydraulic Excavator

HD Boom Lift Capacities



Boom – 5.7 m (18'8")














Counterweight – 6.9 mt (7.6 t)

Bucket – None

Stick – 2.9B1 (9'6")

Shoes – 600 mm (24") triple grouser

Heavy Lift Mode On

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				
														m ft
7.5 m 25.0 ft	kg lb							*4950	*4950			*4300 *9,500	*4300 *9,500	6.15 19.78
6.0 m 20.0 ft	kg lb							*5450 *12,000	*5450 *12,000			*3950 *8,750	*3950 *8,750	7.28 23.71
4.5 m 15.0 ft	kg lb							*6000 *13,100	5500 11,850	*5650 *12,450	3900 8,400	*3900 *8,550	3550 7,850	7.98 26.10
3.0 m 10.0 ft	kg lb					*8800 *18,900	8050 17,300	*6900 *15,000	5300 11,400	6000 12,850	3850 8,200	*4000 *8,750	3250 7,150	8.35 27.38
1.5 m 5.0 ft	kg lb					*10 650 *22,950	7550 16,250	*7850 *17,000	5050 10,900	5850 12,600	3700 8,000	*4200 *9,250	3150 6,900	8.44 27.70
Ground Line	kg lb			*6600 *15,150	*6600 *15,150	*11 650 *25,250	7300 15,650	7950 17,100	4900 10,550	5750 12,400	3650 7,800	*4650 *10,250	3200 7,000	8.26 27.09
-1.5 m -5.0 ft	kg lb	*7050 *15,750	*7050 *15,750	*11 400 *25,850	*11 400 *25,850	*11 800 *25,500	7200 15,500	7900 16,950	4850 10,400	5750 12,350	3600 7,750	5450 12,050	3450 7,600	7.78 25.48
-3.0 m -10.0 ft	kg lb	*12 100 *27,100	*12 100 *27,100	*15 600 *33,850	13 950 29,900	*11 050 *23,850	7250 15,600	7900 17,000	4850 10,450			6450 14,250	4050 8,950	6.94 22.67
-4.5 m -15.0 ft	kg lb			*12 500 *26,750	*12 500 *26,750	*9000 *19,150	7450 16,050					*6800 *14,950	5500 12,400	5.60 18.08

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320E LRR Hydraulic Excavator

HD Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 5.7 m (18'8")















Counterweight – 6.2 mt (6.8 t)

Bucket – None

Stick – 2.9B1 (9'6")

Shoes – 790 mm (31") triple grouser

Heavy Lift Mode On

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft	
														
7.5 m 25.0 ft	kg lb						*4950	*4950			*4300 *9,500	*4300 *9,500	6.15 19.78	
6.0 m 20.0 ft	kg lb						*5450 *12,000	*5450 *12,000			*3950 *8,750	*3950 *8,750	7.28 23.71	
4.5 m 15.0 ft	kg lb						*6000 *13,050	5650 12,150	*5650 *12,400	4000 8,600	*3900 *8,550	3650 8,050	7.98 26.10	
3.0 m 10.0 ft	kg lb				*8750 *18,850	8200 17,700	*6900 *14,950	5400 11,650	*6050 *13,150	3950 8,450	*4000 *8,750	3350 7,350	8.35 27.38	
1.5 m 5.0 ft	kg lb				*10 600 *22,900	7750 16,650	*7850 *16,950	5200 11,200	6000 12,900	3800 8,200	*4200 *9,250	3200 7,100	8.44 27.70	
Ground Line	kg lb			*6600 *15,150	*6600 *15,150	*11 650 *25,200	7450 16,050	8150 17,550	5050 10,800	5900 12,700	3750 8,000	*4650 *10,250	3300 7,200	8.26 27.09
-1.5 m -5.0 ft	kg lb	*7050 *15,750	*7050 *15,750	*11 400 *25,850	*11 400 *25,850	*11 750 *25,450	7400 15,850	8100 17,400	4950 10,650	5900 12,650	3700 7,950	*5500 *12,100	3550 7,800	7.78 25.48
-3.0 m -10.0 ft	kg lb	*12 100 *27,100	*12 100 *27,100	*15 600 *33,750	14 300 30,650	*11 000 *23,800	7450 16,000	8100 17,450	5000 10,750			6600 14,650	4150 9,150	6.94 22.67
-4.5 m -15.0 ft	kg lb			*12 450 *26,650	*12 450 *26,650	*8950 *19,100	7650 16,450					*6800 *14,900	5650 12,750	5.60 18.08

Boom – 5.7 m (18'8")















Counterweight – 6.9 mt (7.6 t)

Bucket – None

Stick – 2.9B1 (9'6")

Shoes – 790 mm (31") triple grouser

Heavy Lift Mode On

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft	
														
7.5 m 25.0 ft	kg lb						*4950	*4950			*4300 *9,500	*4300 *9,500	6.15 19.78	
6.0 m 20.0 ft	kg lb						*5450 *12,000	*5450 *12,000			*3950 *8,750	*3950 *8,750	7.28 23.71	
4.5 m 15.0 ft	kg lb						*6000 *13,050	6000 12,900	*5650 *12,400	4300 9,200	*3900 *8,550	3850 8,550	7.98 26.10	
3.0 m 10.0 ft	kg lb				*8750 *18,850	8700 18,800	*6900 *14,950	5750 12,400	*6050 *13,150	4200 9,000	*4000 *8,750	3550 7,850	8.35 27.38	
1.5 m 5.0 ft	kg lb				*10 600 *22,900	8250 17,700	*7850 *16,950	5550 11,900	6350 13,650	4050 8,750	*4200 *9,250	3450 7,550	8.44 27.70	
Ground Line	kg lb			*6600 *15,150	*6600 *15,150	*11 650 *25,200	7950 17,100	*8500 *18,400	5350 11,550	6250 13,450	4000 8,550	*4650 *10,250	3500 7,700	8.26 27.09
-1.5 m -5.0 ft	kg lb	*7050 *15,750	*7050 *15,750	*11 400 *25,850	*11 400 *25,850	*11 750 *25,450	7850 16,950	8550 18,350	5300 11,400	6200 13,400	3950 8,500	*5500 *12,100	3800 8,300	7.78 25.48
-3.0 m -10.0 ft	kg lb	*12 100 *27,100	*12 100 *27,100	*15 600 *33,750	15 200 32,600	*11 000 *23,800	7900 17,050	8500 *17,600	5300 11,450			*6700 *14,750	4400 9,750	6.94 22.67
-4.5 m -15.0 ft	kg lb			*12 450 *26,650	*12 450 *26,650	*8950 *19,050	8100 17,500					*6800 *14,900	6000 13,550	5.60 18.08

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320E LRR Hydraulic Excavator

ES Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 5.7 m (18'8")















Counterweight – 6.9 mt (7.6 t)

Bucket – None

Stick – 2.9B1 (9'6")

Shoes – 790 mm (31") triple grouser

Heavy Lift Mode On

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				
														m ft
7.5 m 25.0 ft	kg lb							*4900 *11,650	*4900 *11,650			*4200 *9,350	*4200 *9,350	6.15 19.78
6.0 m 20.0 ft	kg lb							*5300 *11,650	*5300 *11,650			*3900 *8,600	*3900 *8,600	7.28 23.71
4.5 m 15.0 ft	kg lb							*5850 *12,700	*5850 12,650	*5450 *12,000	4150 8,900	*3850 *8,400	3750 8,250	7.98 26.10
3.0 m 10.0 ft	kg lb					*8550 *18,350	*8550 *18,350	*6700 *14,500	5600 12,100	*5850 *12,700	4050 8,650	*3900 *8,600	3400 7,500	8.35 27.38
1.5 m 5.0 ft	kg lb					*10 300 *22,250	8000 17,200	*7600 *16,450	5350 11,500	6200 13,350	3900 8,400	*4150 *9,150	3300 7,250	8.44 27.70
Ground Line	kg lb			*6550 *15,000	*6550 *15,000	*11 300 *24,450	7700 16,550	*8250 *17,850	5150 11,100	6100 13,100	3800 8,200	*4600 *10,100	3350 7,350	8.26 27.09
-1.5 m -5.0 ft	kg lb	*7000 *15,600	*7000 *15,600	*11 350 *25,700	*11 350 *25,700	*11 400 *24,700	7600 16,300	8350 17,950	5100 10,950	6050 13,050	3800 8,150	*5400 *11,950	3600 7,950	7.78 25.48
-3.0 m -10.0 ft	kg lb	*12 000 *26,950	*12 000 *26,950	*15 150 *32,750	14 800 31,650	*10 650 *23,050	7650 16,450	*7900 *17,000	5100 11,000			*6450 *14,250	4250 9,400	6.94 22.67
-4.5 m -15.0 ft	kg lb			*12 050 *25,750	*12 050 *25,750	*8650 *18,400	7900 17,000					*6550 *14,350	5850 13,150	5.60 18.08

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320E LRR Hydraulic Excavator

Work Tool Offering Guide*

Boom	5.7 m (18'8")
Stick	2.9 m (9'6")
Hydraulic Hammer	H115Es H120Es H130Es
Multi-Processor	MP15**
Pulverizer	P215
Mobile Scrap and Demolition Shear	S320B** S325B*** S340B***
Compactor (Vibratory Plate)	CVP110
Contractors' Grapple	G120B-G130B
Trash Grapple	
Thumbs	
Rakes	
Center-Lock Pin Grabber Coupler	

These work tools are available for the 320E LRR.
Consult your Cat dealer for proper match.

*Matches are dependent on excavator configurations. Consult your Cat dealer for proper work tool match.

**Pin-on only.

***Boom-mount.

320E LRR Hydraulic Excavator

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Boom (HD)	Boom (ES)
		mm	in	m ³	yd ³	kg	lb	%	2.9 HD (9'6")	2.9 ES (9'6")
Without Quick Coupler										
General Duty (GDC)	B	600	24	0.55	0.72	618	1,363	100%	●	●
	B	750	30	0.75	0.98	710	1,566	100%	●	●
	B	900	36	0.95	1.24	786	1,733	100%	●	●
	B	1050	42	1.16	1.52	847	1,867	100%	●	●
	B	1200	48	1.38	1.80	925	2,038	100%	⊙	⊙
	B	1350	54	1.59	2.08	1002	2,209	100%	⊖**	⊖
Heavy Duty (HD)	B	600	24	0.46	0.61	649	1,430	100%	●	●
	B	750	30	0.64	0.84	747	1,647	100%	●	●
	B	900	36	0.81	1.06	825	1,818	100%	●	●
	B	1050	42	1.00	1.31	879	1,937	100%	●	●
	B	1200	48	1.19	1.56	970	2,138	100%	●	●
	B	1350	54*	1.38	1.81	1051	2,316	100%	⊙**	⊙
Severe Duty (SD)	B	600	24	0.46	0.61	693	1,527	90%	●	●
	B	750	30	0.64	0.84	801	1,765	90%	●	●
	B	900	36	0.81	1.06	887	1,955	90%	●	●
	B	1050	42	1.00	1.31	962	2,121	90%	●	●
	B	1200	48	1.19	1.56	1051	2,316	90%	●	●
Maximum load pin-on (payload + bucket)								kg	3620	3520
								lb	7,978	7,758

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

*This bucket might reduce boom structure life.

**For light dirt loading applications only. Consult your dealer to understand your application before using this bucket in combination with this stick.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

320E LRR Hydraulic Excavator

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Boom (HD)	Boom (ES)
		mm	in	m ³	yd ³	kg	lb	%	2.9 HD (9'6")	2.9 ES (9'6")
With Center Lock Coupler										
General Duty (GDC)	B	600	24	0.55	0.72	618	1,363	100%	●	●
	B	750	30	0.75	0.98	710	1,566	100%	●	●
	B	900	36	0.95	1.24	786	1,733	100%	●	●
	B	1050	42	1.16	1.52	847	1,867	100%	●	⊙
	B	1200	48	1.38	1.80	925	2,038	100%	⊖	⊖
	B	1350	54	1.59	2.08	1002	2,209	100%	○	○
Heavy Duty (HD)	B	600	24	0.46	0.61	649	1,430	100%	●	●
	B	750	30	0.64	0.84	747	1,647	100%	●	●
	B	900	36	0.81	1.06	825	1,818	100%	●	●
	B	1050	42	1.00	1.31	879	1,937	100%	●	●
	B	1200	48	1.19	1.56	970	2,138	100%	⊙	⊙
	B	1350	54*	1.38	1.81	1051	2,316	100%	⊖	⊖
Severe Duty (SD)	B	600	24	0.46	0.61	693	1,527	90%	●	●
	B	750	30	0.64	0.84	801	1,765	90%	●	●
	B	900	36	0.81	1.06	887	1,955	90%	●	●
	B	1050	42	1.00	1.31	962	2,121	90%	●	●
	B	1200	48	1.19	1.56	1051	2,316	90%	●	⊙
	B	1200	48	1.19	1.56	1000	2,204	90%	●	⊙
Maximum load with coupler (payload + bucket)								kg	3210	3110
								lb	7,075	6,855

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

*This bucket might reduce boom structure life.

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.