311F RR







Engine		
Engine Model	Cat® C3.4B	
Net Power – SAE J1349	52 kW	70 hp
Gross Power – SAE J1995	55 kW	74 hp
Drive		
Maximum Travel Speed	5.4 km/h	3.4 mph
Maximum Drawbar Pull	114 kN	25,700 lbf

	aht

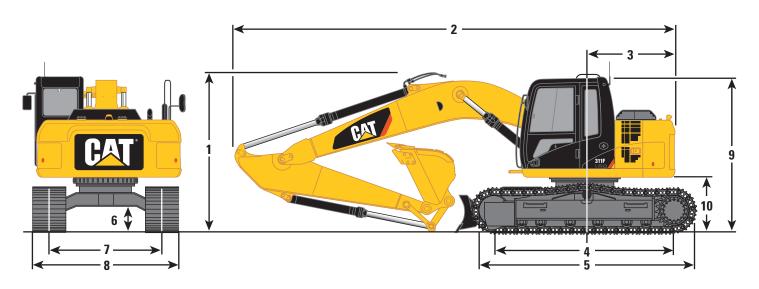
Minimum Operating Weight	12 400 kg	27,300 lb
Maximum Operating Weight	13 900 kg	30,600 lb

Engine		
Gross Power – SAE J1995	55 kW	74 hp
Net Power – SAE J1349	52 kW	70 hp
Bore	99 mm	3.90 in
Stroke	110 mm	4.33 in
Displacement	3.4 L	207 in ³
Hydraulic System		
Main System –	125 × 2	33 × 2
Maximum Flow (Total)	L/min	gal/min
Maximum Pressure – Equipment	30.5 MPa	4,424 psi
Maximum Pressure – Travel	35 MPa	5,076 psi
Maximum Pressure – Swing	23 MPa	3,336 psi
Pilot System – Maximum Flow	21.9 L/min	1,336 in ³ /min
Pilot System – Maximum Pressure	4120 kPa	598 psi
Boom Cylinder – Bore	100 mm	4 in
Boom Cylinder – Stroke	1002 mm	39 in
Stick Cylinder – Bore	110 mm	4 in
Stick Cylinder – Stroke	1194 mm	47 in
Bucket Cylinder – Bore	100 mm	4 in
Bucket Cylinder – Stroke	939 mm	37 in
Drive		
Maximum Travel Speed – High	5.4 km/h	3.4 mph
Maximum Travel Speed – Low	3.6 km/h	2.2 mph
Maximum Drawbar Pull	114.3 kN	25,696 lb

Swing		
Swing Speed	10 rpm	10 rpm
Swing Torque	30.9 kN·m	22,791 lbf-ft
Service Refill Capacities		
Fuel Tank Capacity	210 L	55.48 gal
Cooling System	18 L	4.76 gal
Engine Oil (with filter)	8 L	2.1 gal
Swing Drive (each)	3 L	0.79 gal
Final Drive (each)	3 L	0.79 gal
Hydraulic System (including tank)	160 L	42.3 gal
Hydraulic Tank	95 L	25.1 gal
Track		
Number of Shoes (each side)	43 pieces	43 pieces
Number of Track Rollers (each side)	6 pieces	6 pieces
Number of Carrier Rollers (each side)	1 piece	1 piece
Sound		
ISO 6396		
Operator Noise (Closed)	72 dB(A)	72 dB(A)
ISO 6395		
Spectator Noise	99 dB(A)	99 dB(A)

Dimensions

All dimensions are approximate.



	Reach 4.3 m (
Stick	R2.6 (9°2	
1 Shipping Height*	2820 mm	9'3"
Shipping Height at Boom Top	2760 mm	9'1"
Handrail Height	2820 mm	9'3"
2 Shipping Length		
Long Undercarriage	6910 mm	22'8"
Long Undercarriage with Blade	7530 mm	24'8"
3 Tail Swing Radius	1750 mm	5'9"
4 Length to Center of Rollers	2780 mm	9'1"
5 Track Length	3490 mm	11'5"
6 Ground Clearance	440 mm	1'5"
7 Track Gauge	1990 mm	6'6"
8 Transport Width		
500 mm (20") Shoes	2490 mm	8'2"
600 mm (24") Shoes	2590 mm	8'6"
700 mm (28") Shoes	2690 mm	8'10"
770 mm (30") Shoes	2760 mm	9'1"
9 Cab Height	2760 mm	9'1"
Cab Height with Top Guard	2900 mm	9'6"
10 Counterweight Clearance**	910 mm	3'0"
Type	G	D
Type Capacity Tip Padius	0.53 m^3	0.69 yd ³
Tip Radius	1200 mm	3'11"

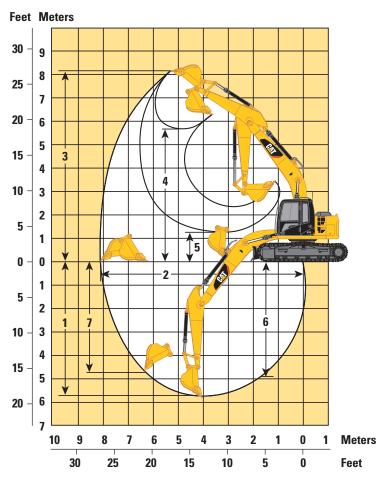
Notes: All dimensions based on bucket A (see table).

^{*}Including shoe lug height.

^{**}Without shoe lug height.

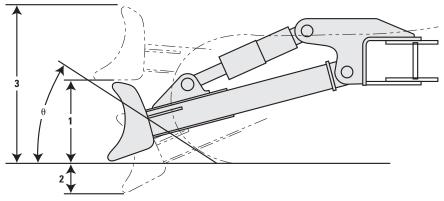
Working Ranges

All dimensions are approximate.



	Reach 4.3 m	
Ctick	R2. (9'	
1 Maximum Digging Depth	5590 mm	18'4"
2 Maximum Reach at Ground Level	8100 mm	26'7"
3 Maximum Cutting Height	8140 mm	26'8"
4 Maximum Loading Height	5770 mm	18'11"
5 Minimum Loading Height	1330 mm	4'4"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	4990 mm	16'4"
7 Maximum Vertical Wall Digging Depth	4880 mm	16'0"
Туре	G	D
Tip Padius	0.53 m ³	0.69 yd ³
Tip Radius	1200 mm	3'11"

Blade



Blade Options	2500 mm (8'2")	2600 mm (8'6")	2700 mm (8'10") 700 mm (28")	
Recommended Track Shoe Width	500 mm (20")	600 mm (24")		
1 Blade Height		630 mm (2'1")		
2 Maximum Lowering Depth from Ground	570 mm (1'10")			
3 Maximum Raising Height above Ground	1000 mm (3'3")			
Approach Angle		23 degrees		

Major Component Weights		
Base Machine (with boom cylinder, without counterweight, front linkage and track)	4050 kg	8,930 lb
Long Undercarriage	2430 kg	5,360 lb
Counterweight (2.45 mt/5,400 lb)	2450 kg	5,400 lb
Boom (includes lines, pins and stick cylinder)		
Reach Boom (4.3 m/14'1")	930 kg	2,050 lb
Stick (includes lines, pins and bucket cylinder)		
R2.8 m (9'2")	610 kg	1,350 lb
Track Shoe (long/per two track)		
500 mm (20") Triple Grouser	1460 kg	3,220 lb
600 mm (24") Triple Grouser	1700 kg	3,750 lb
700 mm (28") Triple Grouser	1960 kg	4,320 lb
770 mm (30") Triple Grouser	2100 kg	4,630 lb
Quick Coupler		
Center Lock with Pin	480 kg	1,060 lb
Blade		
2500 mm (8'2")	810 kg	1,790 lb
2600 mm (8'6")	810 kg	1,790 lb
2700 mm (8'10")	820 kg	1,810 lb

All weights are rounded up to nearest 10 kg and lb. 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 and 90% fuel weight.

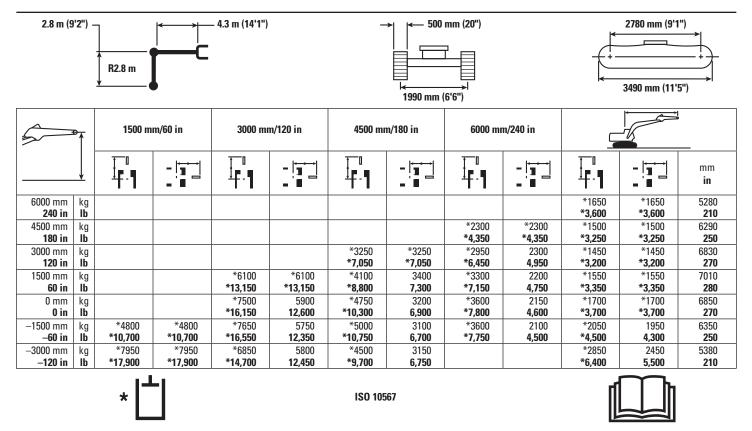
Operating Weights and Ground Pressures

		770 mm le Grous		es		700 mm le Grous	,	es		600 mm e Grous	. ,	es		500 mm e Grous	,	es
	kg	lb	kPa	psi	kg	lb	kPa	psi	kg	lb	kPa	psi	kg	lb	kPa	psi
Long Undercarriage without Bla	de															
Reach Boom – 4.65 m (14'1")																
R2.8 m (9'2")	13 100	28,900	27.5	4.0	12 900	28,400	29.8	4.3	12 700	28,000	34.2	5.0	12 500	27,600	40.4	5.9
Long Undercarriage with Blade																
Reach Boom – 4.65 m (14'1")																
R2.8 m (9'2")	13 900	30,600	29.2	4.2	13 800	30,400	31.9	4.6	13 500	29,800	36.4	5.3	13 300	29,300	43.0	6.2

Bucket and Stick Forces

	Reach Boom 4.3 m (14'1")		
		2.8 m 9'2")	
in On	(/		
General Duty			
Bucket Digging Force (SAE)	79 kN	17,900 lb	
Stick Digging Force (SAE)	51 kN	11,400 lb	
Heavy Duty			
Bucket Digging Force (SAE)	79 kN	17,900 lb	
Stick Digging Force (SAE)	51 kN	11,400 lb	
Severe Duty			
Bucket Digging Force (SAE)	77 kN	17,300 lb	
Stick Digging Force (SAE)	50 kN	11,300 lb	

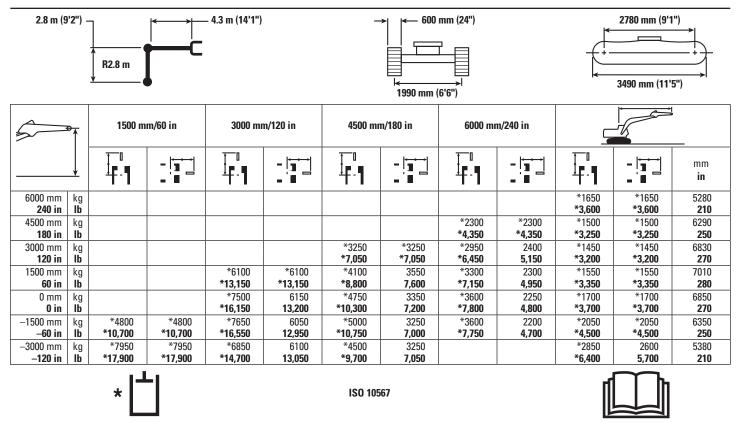
Reach Boom Lift Capacities – Counterweight: 2.45 mt (5,400 lb) – Blade Down



^{*}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.

Lift capacity stays with ±5% for all available track shoes.

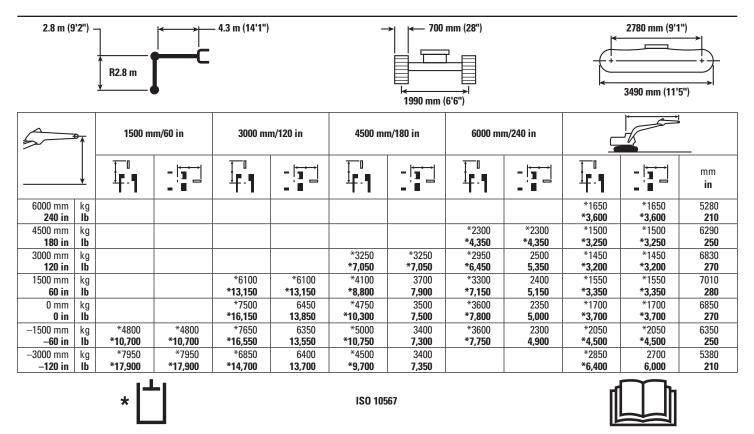
Reach Boom Lift Capacities – Counterweight: 2.45 mt (5,400 lb) – Blade Down



^{*}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.

Lift capacity stays with ±5% for all available track shoes.

Reach Boom Lift Capacities – Counterweight: 2.45 mt (5,400 lb) – Blade Down

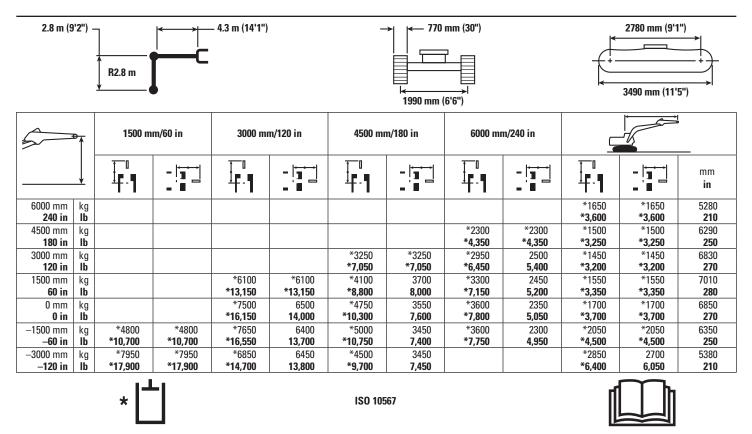


^{*}Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

Lift capacity stays with ±5% for all available track shoes.

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

Reach Boom Lift Capacities – Counterweight: 2.45 mt (5,400 lb) – Blade Down



^{*}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.

Lift capacity stays with ±5% for all available track shoes.

311F L RR Work Tool Offering Guide*

Boom Type	Reach Boom
Stick Size	R2.8 m (9'2")
Hydraulic Hammer	H95Es H110Es**
Demolition and Sorting Grapple	NA
Mobile Scrap and Demolition Shear	NA
Compactor (Vibratory Plate)	CVP75
Contractors' Grapple	G112B
Orange Peel Grapple	
Trash Grapple	
Thumbs	These work tools are available for the 311F L RR.
Rakes	Consult your Cat dealer for proper match.
Center-Lock™ Pin Grabber Coupler	
Dedicated Quick Coupler	

^{*}Offerings not available in all areas. Maximum weight limitation for ROPS certification is (14,712 kg/32,440 lb). Matches are dependent on excavator configurations. Consult your Cat dealer to determine what is offered in your area, and, for proper work tool match.

^{**}Pin on only.

Bucket Specifications and Compatibility

	Width		Capacity		Weight		Fill	Reach Booms – No Blade Installed				Reach Booms – Blade Installed			
								500 mm (20") TG	600 mm (24") TG	700 mm (28") TG	770 mm (30") TG	500 mm (20") TG	600 mm (24") TG	700 mm (28") TG	770 mm (30") TG
	mm	in	m³	yd³	kg	lb	%	2.8 m (9'2")	2.8 m (9'2")	2.8 m (9'2")	2.8 m (9'2")	2.8 m (9'2")	2.8 m (9'2")	2.8 m (9'2")	2.8 m (9'2")
Without Quick Couple	r														
General Duty (GD)	450	18	0.20	0.27	276	608	100	•	•	•	•	•	•	•#	•#
	600	24	0.31	0.40	326	719	100	•	•	•	•	•	•	•#	•#
	750	30	0.41	0.54	374	823	100	•	•	•	•	•	•	•#	•#
	900	36	0.53	0.69	423	932	100	•	•	•	•	•	•	•#	•#
	1050	42	0.65	0.84	469	1,034	100	⊖*	⊖*	●*	●*	●*	• *#	●*#	●*#
	1200	48	0.76	1.00	510	1,125	100	0*	0*	⊖*	⊖*	⊖*	⊖*#	⊖*#	⊖*#
Severe Duty (SD)	600	24	0.31	0.40	367	810	90	•	•	•	•	•	•	•#	•#
	750	30	0.41	0.54	425	936	90		•	•	•	•	•	•#	•#
	900	36	0.53	0.69	483	1,065	90		•	•	•	•	•#	•#	•#
	1050	42	0.65	0.84	529	1,166	90	•	•	•	•	•	•#	•#	•#
Maximum load pin on (payload + bucket)						kg	1538	1574	1612	1634	1656	1693	1734	1755	
							lb	3,390	3,469	3,553	3,601	3,650	3,731	3,822	3,868
	Width		Capacity		Weight			Reach Booms – No Blade Installed			Reach Booms – Blade Installed				
	Wi	dth	Capa	acity	We	ight	Fill	Keaci	ı Booms – F	No Blade Ins	stalled	Kea	ch Booms –	- Blade Insta	ılled
	Wi	dth	Capa	acity	We	ight	Fill	500 mm (20") TG	600 mm (24") TG	700 mm (28") TG	770 mm (30") TG	500 mm (20") TG	600 mm	700 mm (28") TG	770 mm
	Wi mm	dth in	Capa m ³	yd ³	We kg	i ght lb	Fill %	500 mm (20") TG	600 mm (24") TG	700 mm (28") TG	770 mm (30") TG	500 mm (20") TG	600 mm (24") TG	700 mm	770 mm (30") TG
With Center-Lock Quid	mm	in						500 mm (20") TG	600 mm (24") TG	700 mm (28") TG	770 mm (30") TG	500 mm (20") TG	600 mm (24") TG	700 mm (28") TG	770 mm (30") TG
With Center-Lock Quie	mm	in						500 mm (20") TG	600 mm (24") TG	700 mm (28") TG	770 mm (30") TG	500 mm (20") TG	600 mm (24") TG	700 mm (28") TG	770 mm (30") TG
	mm ck Coup	in ler	m³	yd³	kg	lb	%	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2")	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2")
	mm ck Coup	in ler 18	m³	yd ³	kg 276	lb 608	%	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2")	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2")
	mm ck Coup 450 600	in ler 18 24	m³ 0.20 0.31	yd ³ 0.27 0.40	kg 276 326	lb 608 719	% 100 100	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2")	500 mm (20") TG 2.8 m (9'2") •# •#	600 mm (24") TG 2.8 m (9'2") # #	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2") # #
	mm 450 600 750	in ler 18 24 30	m³ 0.20 0.31 0.41	yd³ 0.27 0.40 0.54	kg 276 326 374	608 719 823	% 100 100 100	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2")	500 mm (20") TG 2.8 m (9'2") •# •#	600 mm (24") TG 2.8 m (9'2") # #	700 mm (28") TG 2.8 m (9'2") # # # #	770 mm (30") TG 2.8 m (9'2") # # #
	mm 450 600 750	in ler 18 24 30 36	m ³ 0.20 0.31 0.41 0.53	yd ³ 0.27 0.40 0.54 0.69	276 326 374 423	Ib 608 719 823 932	% 100 100 100 100	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2")	500 mm (20") TG 2.8 m (9'2") # # # # #	600 mm (24") TG 2.8 m (9'2") # # # # #	700 mm (28") TG 2.8 m (9'2") # # # #	770 mm (30") TG 2.8 m (9'2") ## ## ## ##
	mm 450 600 750 900 1050	in ler 18 24 30 36 42	m ³ 0.20 0.31 0.41 0.53 0.65	yd ³ 0.27 0.40 0.54 0.69 0.84	276 326 374 423 469	lb 608 719 823 932 1,034	% 100 100 100 100	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2")	500 mm (20") TG 2.8 m (9'2") # # # # # #	600 mm (24") TG 2.8 m (9'2") ●# ●# ●# ●#	700 mm (28") TG 2.8 m (9'2") ## ## ## ## ##	770 mm (30") TG 2.8 m (9'2") ## ## ## ## ##
General Duty (GD)	mm ck Coup 450 600 750 900 1050 1200	in ler 18 24 30 36 42 48	0.20 0.31 0.41 0.53 0.65 0.76	yd ³ 0.27 0.40 0.54 0.69 0.84 1.00	276 326 374 423 469 510	608 719 823 932 1,034 1,125	% 100 100 100 100 100 100 100	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2") • • • • • • • • • • • • • • • • • •	770 mm (30") TG 2.8 m (9'2")	500 mm (20") TG 2.8 m (9'2") # # # # # # # # # # #	600 mm (24") TG 2.8 m (9'2") #	700 mm (28") TG 2.8 m (9'2") ## ## ## ## ## ## ## ## ## ## ## ##	770 mm (30") TG 2.8 m (9'2") ## ## ## ## ## ## ## ##
General Duty (GD)	mm 2k Coup 450 600 750 900 1050 1200 600	in ler 18 24 30 36 42 48 24	0.20 0.31 0.41 0.53 0.65 0.76	yd ³ 0.27 0.40 0.54 0.69 0.84 1.00 0.40	276 326 374 423 469 510 367	608 719 823 932 1,034 1,125 810	% 100 100 100 100 100 100 90	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2")	500 mm (20") TG 2.8 m (9'2") #	600 mm (24") TG 2.8 m (9'2") #	700 mm (28") TG 2.8 m (9'2") ## ## ## ## ## ## ## ## ## ## ## ## #	770 mm (30") TG 2.8 m (9'2") ## ## ## ## ## ## ## ## ## ## ## ##
General Duty (GD)	mm 450 600 750 900 1050 1200 600 750	in 18 24 30 36 42 48 24 30	m ³ 0.20 0.31 0.41 0.53 0.65 0.76 0.31 0.41	yd ³ 0.27 0.40 0.54 0.69 0.84 1.00 0.40 0.54	276 326 374 423 469 510 367 425	1b 608 719 823 932 1,034 1,125 810 936	% 100 100 100 100 100 100 90 90	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2")	500 mm (20") TG 2.8 m (9'2") # # # # # # # # # # # # # # # # # #	600 mm (24") TG 2.8 m (9'2") # # # # # # # # # # # # # # # # # #	700 mm (28") TG 2.8 m (9'2") # # # # # # # # # # # # # # # # # #	770 mm (30") TG 2.8 m (9'2") ## ## ## ## ## ## ## ## ## ## ## ##
General Duty (GD)	mm 450 600 750 900 1050 1200 600 750 900 1050	in 18 24 30 36 42 48 24 30 36 42	m ³ 0.20 0.31 0.41 0.53 0.65 0.76 0.31 0.41 0.53	yd ³ 0.27 0.40 0.54 0.69 0.84 1.00 0.40 0.54 0.69 0.84	kg 276 326 374 423 469 510 367 425 483 529	1b 608 719 823 932 1,034 1,125 810 936 1,065 1,166	% 100 100 100 100 100 100 90 90	500 mm (20") TG 2.8 m (9'2")	600 mm (24") TG 2.8 m (9'2")	700 mm (28") TG 2.8 m (9'2")	770 mm (30") TG 2.8 m (9'2")	500 mm (20") TG 2.8 m (9'2") ## ## ## ## ## ## ## ## ## ## ## ## #	600 mm (24") TG 2.8 m (9'2") # # # # # # # # # # # # # # # # # #	700 mm (28") TG 2.8 m (9'2") ## ## ## ## ## ## ## ## ## ## ## ## #	770 mm (30") TG 2.8 m (9'2") # # # # # # # # # # # # # # # # # #

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 long tips.

#Consult dealer for maximum weight limitation (14 712 kg/32,440 lb) of ROPS certification.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- 1800 kg/m³ (3,000 lb/yd³)
- → 1500 kg/m³ (2,500 lb/yd³)
- O 1200 kg/m³ (2,000 lb/yd³)
- 900 kg/m³ (1,500 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.

^{*}For General Duty applications.

311F RR Standard Equipment

Standard Equipment

Standard equipment may vary. Consult your Cat dealer for details.

CAB

- Pressurized operator station with positive filtration
- Sliding upper door window (left-hand cab door)
- Removable lower windshield with in cab storage bracket
- Coat hook
- · Beverage holder
- · Literature holder
- · AM/FM radio
- · Radio with MP3 auxiliary audio port
- · Two stereo speakers
- Storage shelf suitable for lunch or toolbox
- Color LCD display with indicators, filter/ fluid change, and working hour information
- · Adjustable armrest
- Height adjustable joystick consoles
- Neutral lever (lock out) for all controls
- Travel control pedals with removable hand levers
- · Capability of installing additional pedal
- Two power outlets, 10 amp (total)
- · Travel alarm
- Laminated glass front upper window and tempered other windows

COUNTERWEIGHT

• 2.45 mt (2.7 t) without lifting eye

ELECTRICAL

- 80 amp alternator
- · Circuit breaker
- Capability to electrically connect a beacon

ENGINE

- C3.4B diesel engine
- · Biodiesel capable
- Meets EPA Tier 4 Final emission standards
- 2300 m (7,500 ft) altitude capability
- Manual priming pump
- Automatic engine speed control
- Economy and high power modes
- · Two-speed travel
- Side-by-side cooling system
- Radial seal air filter
- Primary filter with water separator and water separator indicator
- · Secondary filter
- Standard battery –18° C (0° F)

HYDRAULIC SYSTEM

- · Regeneration circuit for boom and stick
- Reverse swing dampening valve
- Automatic swing parking brake
- High-performance hydraulic return filter
- Fine swing control

LIGHTS

- Halogen boom light (left side)
- Time delay function for boom light and cab light
- Exterior light

UNDERCARRIAGE

- · Center track guiding guard
- Grease Lubricated Track GLT2, resin seal
- Towing eye on base frame

SECURITY

- · Cat one key security system
- · Door locks
- Cap locks on fuel and hydraulic tanks
- Lockable external tool/storage box
- Signaling/warning horn
- · Secondary engine shutoff switch
- Openable skylight for emergency exit
- · Rearview camera-ready

311F RR Optional Equipment

Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

CAB

- Rear window for emergency exit
- Seat, high-back air suspension with heater and cooling
- Seat, high-back mechanical suspension
- Straight travel pedal
- Rain protector
- · Cab mirror
- Ashtray
- Sunscreen

ENGINE

- Cold weather battery –25° C (–13° F)
- Jump start receptacle

FRONT LINKAGE

- · Quick coupler
- Bucket linkage
- 4.3 m (14'1") Reach Boom
- 2.8 m (9'2") stick

HYDRAULIC SYSTEM

- · Control pattern quick-changer, two way
- · Auxiliary hydraulics
- · Boom and stick lines
- High-pressure line
- Medium-pressure line
- · Quick coupler line
- Boom lowering and stick lowering control valve

SECURITY

- FOGS, bolt-on
- Guard, cab front, mesh
- · Guard, vandalism
- · Side steel bumper
- Security system fitted (MSS)
- Bottom guards, heavy duty
- · Rearview camera

TECHNOLOGY

• Product Link

LIGHTS

- Working light, cab mounted with time delay
- Halogen boom lights (right side)

UNDERCARRIAGE

- 500 mm (20") triple grouser shoes
- 600 mm (24") triple grouser shoes
- 700 mm (28") triple grouser shoes
- 770 mm (30") triple grouser shoes
- Rubber pad for 500 mm (20") triple grouser shoes
- 2500 mm (8'2") blade with replaceable cutting edge
- 2600 mm (8'6") blade with replaceable cutting edge
- 2700 mm (8'10") blade with replaceable cutting edge
- · Swivel guard