315F L

Hydraulic Excavator

2017



Engine		
Engine Model	Cat® C4.4 ACERT™	
Net Power – SAE J1349	72 kW	97 hp
Engine Power – ISO 14396	74 kW	100 hp

Drive		
Maximum Travel Speed	5.5 km/h	3.4 mph
Maximum Drawbar Pull	112 kN	25,179 lbf
Weight		
Minimum Operating Weight	15 100 kg	33,296 lb
Maximum Operating Weight	17 140 kg	37,794 lb

315F L Hydraulic Excavator Specifications

Engine

Engine Model	Cat C4.4 ACERT	
Net Power – SAE J1349	72 kW	97 hp
Engine Power – ISO 14396	74 kW	100 hp
Bore	105 mm	4.1 in
Stroke	127 mm	5.0 in
Displacement	4.4 L	270 in^3

Weight

Minimum Operating Weight*	15 100 kg	33,296 lb
Maximum Operating Weight**	17 140 kg	37,794 lb

*4.65 m (15'3") reach boom, 2.8 m (9'2") stick, 500 mm (20") shoes, no blade

**Power offset boom, 2.13 m (6'11") stick, 700 mm (28") shoes, blade

Hydraulic System

Main System – Maximum Flow (Total)	256 L/min	68 gal/min
Maximum Pressure – Equipment	30 500 kPa	4,420 psi
Maximum Pressure – Power Offset Boom (optional)	29 900 kPa	4,340 psi
Maximum Pressure – Travel	35 000 kPa	5,080 psi
Maximum Pressure – Swing	23 000 kPa	3,340 psi
Pilot System – Maximum Flow	19 L/min	5 gal/min
Pilot System – Maximum Pressure	4120 kPa	600 psi
Boom Cylinder – Bore	110 mm	4.3 in
Boom Cylinder – Stroke	1000 mm	39.4 in
Stick Cylinder – Bore	120 mm	4.7 in
Stick Cylinder – Stroke	1197 mm	47.1 in
Bucket Cylinder – Bore	100 mm	3.9 in
Bucket Cylinder – Stroke	939 mm	37.0 in

Drive

Maximum Travel Speed	5.5 km/h	3.4 mph
Maximum Drawbar Pull	112 kN	25,179 lbf

Swing Mechanism

Swing Speed	11 rpm	
Swing Torque	30.9 kN·m	22,790 lbf-ft

Service Refill Capacities

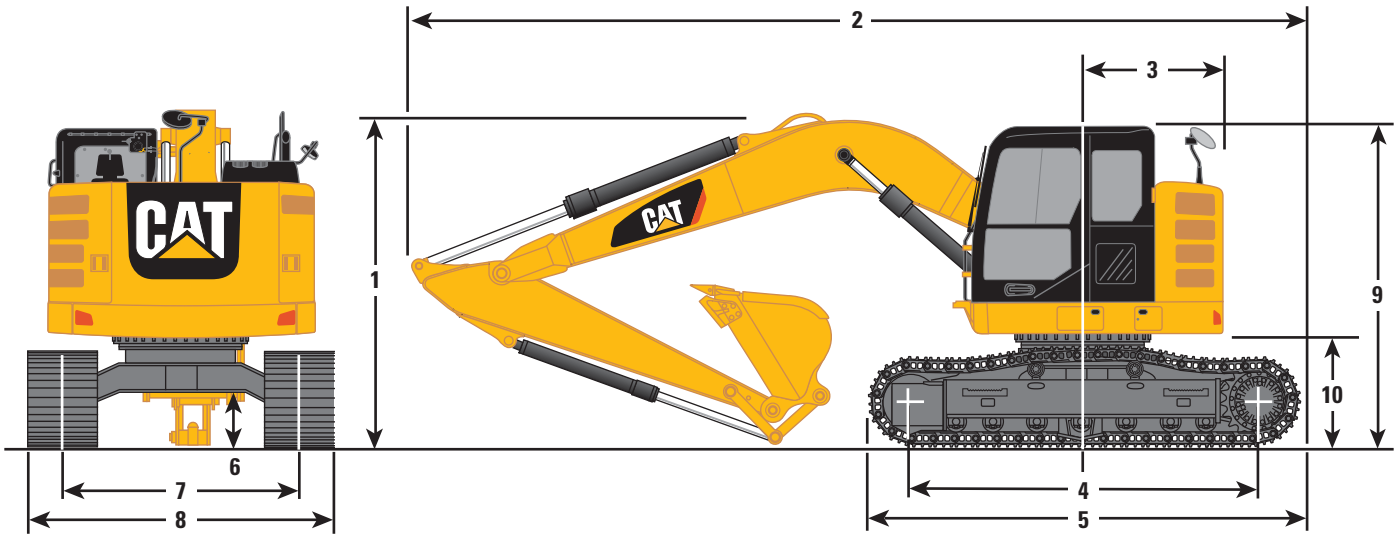
Fuel Tank Capacity	178 L	47 gal
DEF Tank Capacity	19 L	5 gal
Cooling System	28 L	7.4 gal
Engine Oil (with filter)	13.5 L	3.6 gal
Swing Drive (each)	3 L	0.8 gal
Final Drive (each)	3 L	0.8 gal
Hydraulic System (including tank)	160 L	42.3 gal
Hydraulic Tank	84 L	22.2 gal

Track

Long Undercarriage	
Number of Shoes (each side)	46 pieces
Number of Track Rollers (each side)	7 pieces
Number of Carrier Rollers (each side)	2 pieces

Dimensions

All dimensions are approximate.



Boom Type	Reach Boom 4.65 m (15'3")				Power Offset Boom	
Stick Size	**R3.0 m (9'10")**		**R2.8 m (9'2")**		**2.13 m (6'11")**	
1 Shipping Height*	3000 mm	9'10"	3030 mm	9'11"	3000 mm	9'10"
Shipping Height at Boom Top	2750 mm	9'0"	3030 mm	9'11"	2780 mm	9'1"
Shipping Height with Hand Rail	3000 mm	9'10"	3000 mm	9'10"	3000 mm	9'10"
Shipping Height with Top Guard	2950 mm	9'8"	2950 mm	9'8"	2950 mm	9'8"
2 Shipping Length						
Long Undercarriage	7450 mm	24'5"	7440 mm	24'5"	7560 mm	24'10"
Long Undercarriage with Blade	8010 mm	26'3"	8010 mm	26'3"	8120 mm	26'8"
3 Tail Swing Radius						
Heavy Counterweight	1530 mm	5'0"	1530 mm	5'0"	1530 mm	5'0"
4 Length to Center of Rollers	3040 mm	10'0"	3040 mm	10'0"	3040 mm	10'0"
5 Track Length	3750 mm	12'4"	3750 mm	12'4"	3750 mm	12'4"
6 Ground Clearance	440 mm	1'5"	440 mm	1'5"	440 mm	1'5"
7 Track Gauge	1990 mm	6'6"	1990 mm	6'6"	1990 mm	6'6"
8 Transport Width						
500 mm (20") Shoes	2490 mm	8'2"	2490 mm	8'2"	2490 mm	8'2"
600 mm (24") Shoes	2590 mm	8'6"	2590 mm	8'6"	2590 mm	8'6"
700 mm (28") Shoes	2690 mm	8'10"	2690 mm	8'10"	2690 mm	8'10"
9 Cab Height	2810 mm	9'3"	2810 mm	9'3"	2810 mm	9'3"
Cab Height with Top Guard	2950 mm	9'8"	2950 mm	9'8"	2950 mm	9'8"
10 Counterweight Clearance**	860 mm	2'10"	860 mm	2'10"	860 mm	2'10"

*Including shoe lug height.

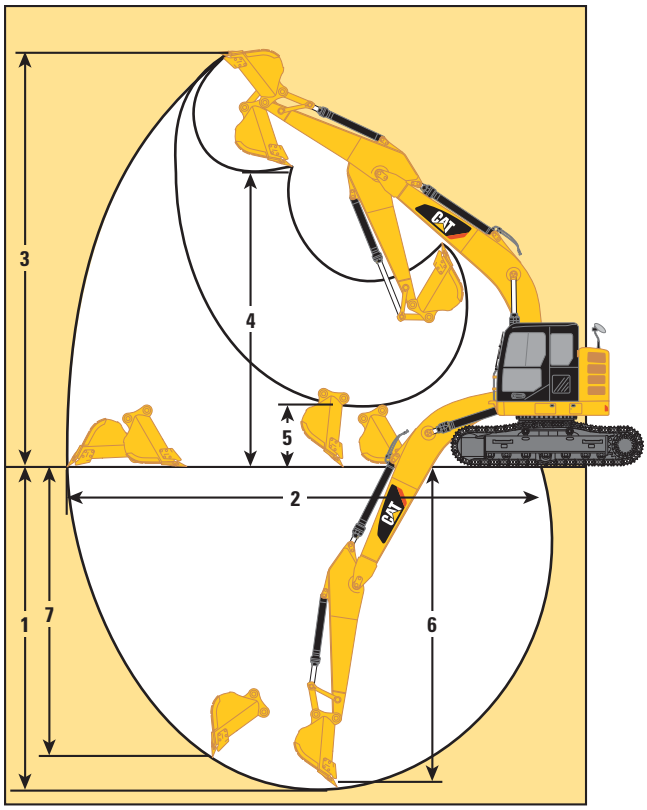
**Without shoe lug height.

All dimensions were calculated with 900 mm (35") wide GD bucket with 0.53 m^3 (0.69 yd^3) capacity and 1200 mm (3'11") tip radius.

315F L Hydraulic Excavator Specifications

Working Ranges

All dimensions are approximate.

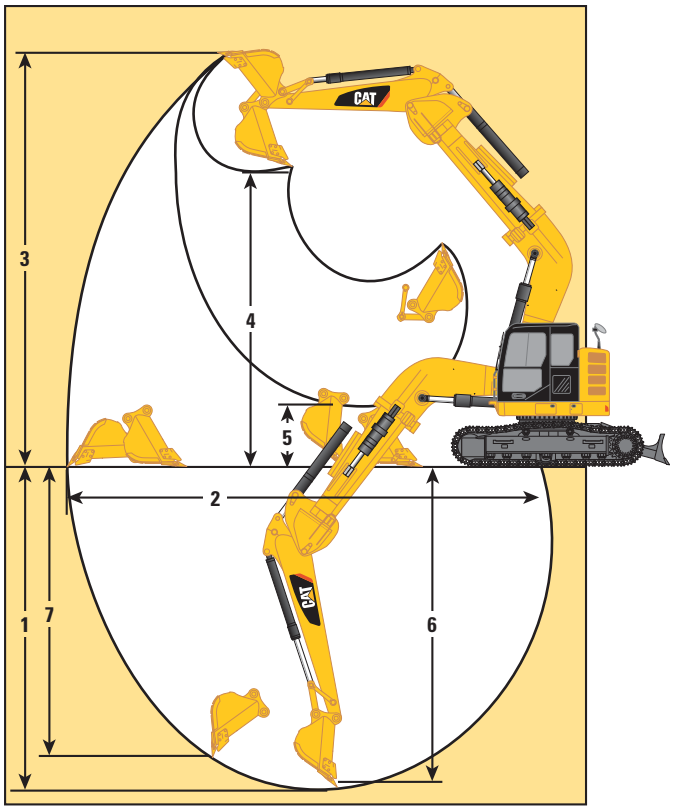


Boom Type	Reach Boom 4.65 m (15'3")			
Stick Size	**R3.0 m (9'10")**		**R2.8 m (9'2")**	
1 Maximum Digging Depth	5950 mm	19'6"	5750 mm	18'10"
2 Maximum Reach at Ground Level	8680 mm	28'6"	8490 mm	27'10"
3 Maximum Cutting Height	9640 mm	31'8"	9480 mm	31'1"
4 Maximum Loading Height	7190 mm	23'7"	7030 mm	23'1"
5 Minimum Loading Height	2060 mm	6'9"	2240 mm	7'4"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5770 mm	18'9"	5560 mm	18'2"
7 Maximum Vertical Wall Digging Depth	5280 mm	17'4"	5090 mm	16'8"

All dimensions were calculated with 900 mm (35") wide GD bucket with 0.53 m^3 (0.69 yd^3) capacity and 1200 mm (3'11") tip radius.

Working Ranges

All dimensions are approximate.

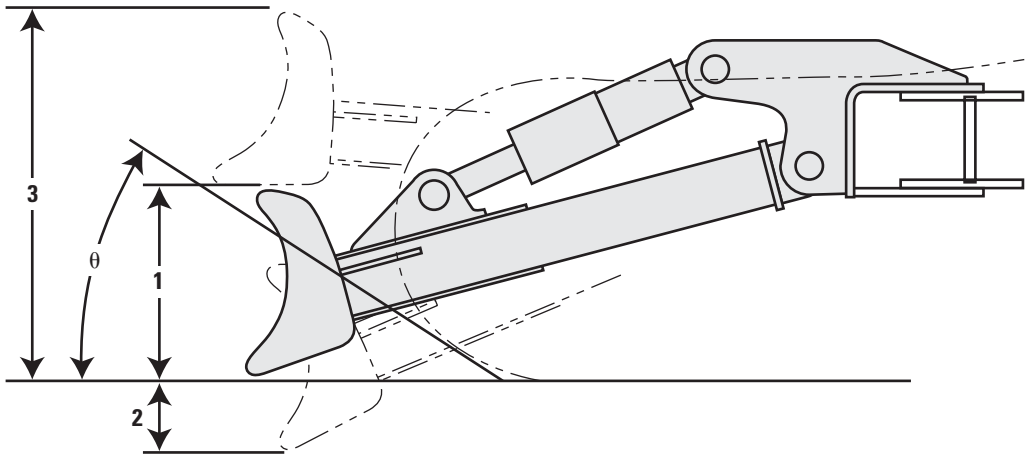


Boom Type	Power Offset Boom	
Stick Size	**2.13 m (6'11")**	
1 Maximum Digging Depth	4840 mm	15'11"
2 Maximum Reach at Ground Level	7270 mm	23'10"
3 Maximum Cutting Height	8450 mm	27'9"
4 Maximum Loading Height	6020 mm	19'9"
5 Minimum Loading Height	2330 mm	7'6"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	4480 mm	14'7"
7 Maximum Vertical Wall Digging Depth	3550 mm	11'8"

All dimensions were calculated with 900 mm (35") wide GD bucket with 0.53 m^3 (0.69 yd^3) capacity and 1200 mm (3'11") tip radius.

Blade Working Ranges

All dimensions are approximate.



Blade Options	2500 mm (8'2")		2600 mm (8'6")		2700 mm (8'10")	
Recommended Track Shoe Width	**500 mm (20")**		**600 mm (24")**		**700 mm (28")**	
1 Blade Height	430 mm	1'4"	430 mm	1'4"	430 mm	1'4"
2 Maximum Lowering Depth from Ground	570 mm	1'10"	570 mm	1'10"	570 mm	1'10"
3 Maximum Raising Height above Ground	1000 mm	3'3"	1000 mm	3'3"	1000 mm	3'3"
θ Approach Angle	24.9 degrees		24.9 degrees		24.9 degrees	

Major Component Weights

Base Machine	5100 kg	11,250 lb
Long Undercarriage	2650 kg	5,843 lb
Counterweight – 3.56 mt (3.9 t)	3560 kg	7,850 lb
Boom (includes lines, pins and stick cylinder)		
Reach Boom – 4.65 m (15'3")	1030 kg	2,271 lb
Power Offset Boom	1740 kg	3,836 lb
Reach Boom for CGC – 4.65 m (15'3")	1030 kg	2,271 lb
Stick (includes lines, pins, bucket cylinder and bucket linkage)		
R3.0 m (9'10")	670 kg	1,477 lb
R2.8 m (9'2")	650 kg	1,433 lb
2.13 m (6'11") for Power Offset Boom	520 kg	1,146 lb
R3.0 m (9'10") for CGC	670 kg	1,477 lb
R3.0 m (9'10") for Thumb	730 kg	1,609 lb
Track Shoe (Long/per two tracks)		
500 mm (20") Triple Grouser	1570 kg	3,460 lb
500 mm (20") Triple Grouser with Rubber Pad	2080 kg	4,590 lb
600 mm (24") Triple Grouser	1820 kg	4,010 lb
700 mm (28") Triple Grouser	2090 kg	4,610 lb
Blade		
2500 mm (8'2")	830 kg	1,830 lb
2600 mm (8'6")	830 kg	1,830 lb
2700 mm (8'10")	840 kg	1,852 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 (170 lb) operator weight, 90% fuel weight, and undercarriage with center guard.

315F L Hydraulic Excavator Specifications

Operating Weight and Ground Pressure

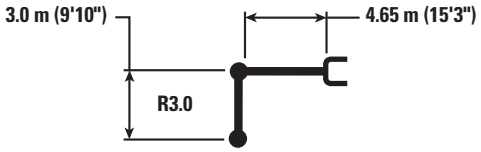
	700 mm (28") Triple Grouser Shoes				600 mm (24") Triple Grouser Shoes				500 mm (20") Triple Grouser Shoes			
	kg	lb	kPa	psi	kg	lb	kPa	psi	kg	lb	kPa	psi
Long Undercarriage without Blade												
Reach Boom – 4.65 m (15'3")												
R3.0 m (9'10")	15 640	34,486	33.3	4.8	15 370	33,891	38.2	5.5	15 120	33,340	45.1	6.5
R2.8 m (9'2")	15 620	34,442	33.3	4.8	15 350	33,847	38.1	5.5	15 100	33,296	45.0	6.5
Long Undercarriage with Blade												
Reach Boom – 4.65 m (15'3")												
R3.0 m (9'10")	16 480	36,338	35.1	5.1	16 200	35,721	40.3	5.8	15 950	35,170	47.6	6.9
R2.8 m (9'2")	16 460	36,294	35.1	5.1	16 180	35,677	40.2	5.8	15 930	35,126	47.5	6.9
Power Offset Boom												
2.13 m (6'11")	17 140	37,794	36.5	5.3	16 860	37,176	41.9	6.1	16 600	36,603	49.5	7.2

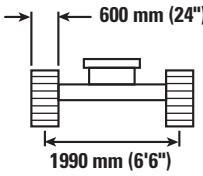
Bucket and Stick Forces

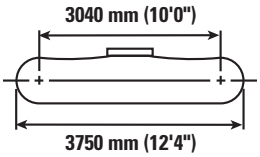
Boom Type	**Reach Boom 4.65 m (15'3")**				**Power Offset Boom**	
Stick Size	**R3.0 m (9'10")**		**R2.8 m (9'2")**		**2.13 m (6'11")**	
General Duty						
Bucket Digging Force (SAE)	85 kN	19,200 lbf	85 kN	19,200 lbf	78 kN	17,500 lbf
Stick Digging Force (SAE)	57 kN	12,800 lbf	60 kN	13,500 lbf	61 kN	13,700 lbf
Severe Duty						
Bucket Digging Force (SAE)	83 kN	18,700 lbf	83 kN	18,700 lbf	76 kN	17,100 lbf
Stick Digging Force (SAE)	57 kN	12,800 lbf	60 kN	13,400 lbf	61 kN	13,700 lbf

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.

Reach Boom Lift Capacities – Counterweight: 3.56 mt (3.9 t) – Blade Down







		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				
												m ft
7.5 m **25.0 ft**	kg **lb**					*2600	*2600			*2500 ***5,600**	*2500 ***5,600**	4.54 **14.33**
6.0 m **20.0 ft**	kg **lb**					*3450 ***7,550**	*3450 ***7,550**	*2350	*2350	*2100 ***4,650**	*2100 ***4,650**	6.07 **19.68**
4.5 m **15.0 ft**	kg **lb**					*3700 ***8,050**	*3700 ***8,050**	*3400 ***7,400**	3050 **6,500**	*2000 ***4,350**	*2000 ***4,350**	6.96 **22.72**
3.0 m **10.0 ft**	kg **lb**			*5900 ***12,700**	*5900 ***12,700**	*4350 ***9,450**	*4350 ***9,450**	*3650 ***7,900**	2950 **6,350**	*2000 ***4,350**	*2000 ***4,350**	7.43 **24.36**
1.5 m **5.0 ft**	kg **lb**			*8050 ***17,350**	7900 **16,950**	*5150 ***11,150**	4300 **9,200**	*3950 ***8,550**	2850 **6,100**	*2100 ***4,550**	2000 **4,400**	7.58 **24.88**
0.0 m **0.0 ft**	kg **lb**			*7350 ***16,950**	*7350 **15,950**	*5600 ***12,100**	4050 **8,750**	*4100 ***8,850**	2750 **5,850**	*2300 ***5,050**	2050 **4,450**	7.43 **24.36**
–1.5 m **–5.0 ft**	kg **lb**	*4550 ***10,150**	*4550 ***10,150**	*8050 ***17,450**	7300 **15,700**	*5400 ***11,700**	3950 **8,500**	*3900 ***8,400**	2650 **5,750**	*2700 ***6,000**	2200 **4,850**	6.94 **22.73**
–3.0 m **–10.0 ft**	kg **lb**	*7550 ***16,950**	*7550 ***16,950**	*6450 ***13,950**	*6450 ***13,950**	*4500 ***9,650**	3950 **8,550**	*2950	2700	*2850 ***6,300**	2700 **5,950**	6.04 **19.71**
–4.5 m **–15.0 ft**	kg **lb**			*3550 ***7,350**	*3550 ***7,350**					*2150 ***4,500**	*2150 ***4,500**	4.49 **14.39**

* ISO 10567

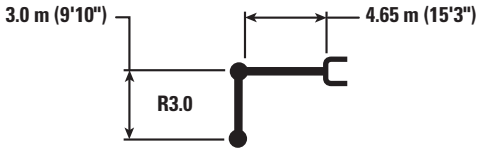
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

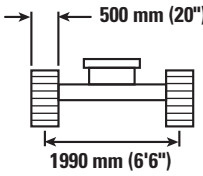
Lift capacity stays with ±5% for all available track shoes.

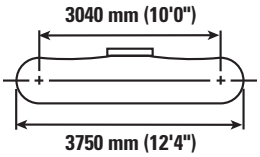
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

315F L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3.56 mt (3.9 t) – Blade Down







		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**					*2600	*2600					*2500 ***5,600**	*2500 ***5,600**	4.54 **14.33**
6.0 m **20.0 ft**	kg **lb**					*3450 ***7,550**	*3450 ***7,550**	*2350	*2350			*2100 ***4,650**	*2100 ***4,650**	6.07 **19.68**
4.5 m **15.0 ft**	kg **lb**					*3700 ***8,050**	*3700 ***8,050**	*3400 ***7,400**	2950 **6,300**			*2000 ***4,350**	*2000 ***4,350**	6.96 **22.72**
3.0 m **10.0 ft**	kg **lb**			*5900 ***12,700**	*5900 ***12,700**	*4350 ***9,450**	*4350 **9,450**	*3650 ***7,900**	2850 **6,100**			*2000 ***4,350**	*2000 ***4,350**	7.43 **24.36**
1.5 m **5.0 ft**	kg **lb**			*8050 ***17,350**	7550 **16,250**	*5150 ***11,150**	4100 **8,850**	*3950 ***8,550**	2750 **5,850**	*2500	1950	*2100 ***4,550**	1950 **4,250**	7.58 **24.88**
0.0 m **0.0 ft**	kg **lb**			*7350 ***16,950**	7100 **15,250**	*5600 ***12,100**	3900 **8,400**	*4100 ***8,850**	2600 **5,650**			*2300 ***5,050**	1950 **4,300**	7.43 **24.36**
–1.5 m **–5.0 ft**	kg **lb**	*4550 ***10,150**	*4550 ***10,150**	*8050 ***17,450**	7000 **15,000**	*5400 ***11,700**	3800 **8,150**	*3900 ***8,400**	2550 **5,500**			*2700 ***6,000**	2100 **4,650**	6.94 **22.73**
–3.0 m **–10.0 ft**	kg **lb**	*7550 ***16,950**	*7550 ***16,950**	*6450 ***13,950**	*6450 ***13,950**	*4500 ***9,650**	3800 **8,200**	*2950	2600			*2850 ***6,300**	2550 **5,700**	6.04 **19.71**
–4.5 m **–15.0 ft**	kg **lb**			*3550 ***7,350**	*3550 ***7,350**							*2150 ***4,500**	*2150 ***4,500**	4.49 **14.39**

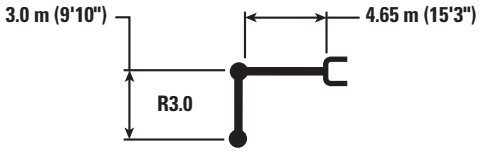
* **ISO 10567**

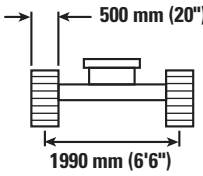
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

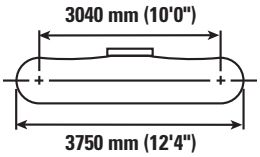
Lift capacity stays with ±5% for all available track shoes.

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

Reach Boom Lift Capacities – Counterweight: 3.56 mt (3.9 t) – Blade Down with Rubber Pad







		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**					*2600	*2600					*2500 ***5,600**	*2500 ***5,600**	4.54 **14.33**
6.0 m **20.0 ft**	kg **lb**					*3450 ***7,550**	*3450 ***7,550**	*2350	*2350			*2100 ***4,650**	*2100 ***4,650**	6.07 **19.68**
4.5 m **15.0 ft**	kg **lb**					*3700 ***8,050**	*3700 ***8,050**	*3400 ***7,400**	3000 **6,500**			*2000 ***4,350**	*2000 ***4,350**	6.96 **22.72**
3.0 m **10.0 ft**	kg **lb**			*5900 ***12,700**	*5900 ***12,700**	*4350 ***9,450**	*4350 ***9,450**	*3650 ***7,900**	2950 **6,300**			*2000 ***4,350**	*2000 ***4,350**	7.43 **24.36**
1.5 m **5.0 ft**	kg **lb**			*8050 ***17,350**	7800 **16,750**	*5150 ***11,150**	4250 **9,150**	*3950 ***8,550**	2800 **6,050**	*2500	2050	*2100 ***4,550**	2000 **4,400**	7.58 **24.88**
0.0 m **0.0 ft**	kg **lb**			*7350 ***16,950**	*7350 ***15,750**	*5600 ***12,100**	4050 **8,650**	*4100 ***8,850**	2700 **5,800**			*2300 ***5,050**	2000 **4,450**	7.43 **24.36**
–1.5 m **–5.0 ft**	kg **lb**	*4550 ***10,150**	*4550 ***10,150**	*8050 ***17,450**	7250 **15,500**	*5400 ***11,700**	3950 **8,450**	*3900 ***8,400**	2650 **5,700**			*2700 ***6,000**	2200 **4,850**	6.94 **22.73**
–3.0 m **–10.0 ft**	kg **lb**	*7550 ***16,950**	*7550 ***16,950**	*6450 ***13,950**	*6450 ***13,950**	*4500 ***9,650**	3950 **8,450**	*2950	2700			*2850 ***6,300**	2650 **5,900**	6.04 **19.71**
–4.5 m **–15.0 ft**	kg **lb**			*3550 ***7,350**	*3550 ***7,350**							*2150 ***4,500**	*2150 ***4,500**	4.49 **14.39**

* **ISO 10567**

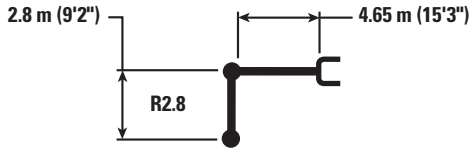
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

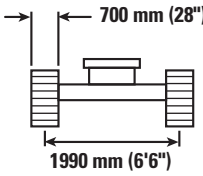
Lift capacity stays with ±5% for all available track shoes.

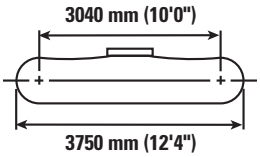
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

315F L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3.56 mt (3.9 t) – Blade Down







		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				
												m **ft**
7.5 m **25.0 ft**	kg **lb**									*2750 ***6,200**	*2750 ***6,200**	4.21 **13.33**
6.0 m **20.0 ft**	kg **lb**					*3650 ***7,950**	*3650 ***7,950**			*2300 ***5,050**	*2300 ***5,050**	5.84 **19.17**
4.5 m **15.0 ft**	kg **lb**					*3850 ***8,400**	*3850 ***8,400**	*3500 ***7,650**	3100 **6,600**	*2150 ***4,750**	*2150 ***4,750**	6.75 **22.50**
3.0 m **10.0 ft**	kg **lb**			*6250 ***13,450**	*6250 ***13,450**	*4500 ***9,750**	*4500 ***9,750**	*3700 ***8,100**	3000 **6,450**	*2150 ***4,700**	*2150 ***4,700**	7.24 **24.17**
1.5 m **5.0 ft**	kg **lb**			*8250 ***17,800**	7900 **16,950**	*5250 ***11,350**	4350 **9,300**	*4000 ***8,650**	2900 **6,150**	*2250 ***4,950**	2100 **4,650**	7.40 **25.00**
0.0 m **0.0 ft**	kg **lb**			*7050 ***16,300**	*7050 **16,050**	*5600 ***12,100**	4100 **8,850**	*4100 ***8,850**	2750 **5,950**	*2500 ***5,500**	2150 **4,700**	7.24 **24.17**
–1.5 m **–5.0 ft**	kg **lb**	*4750 ***10,600**	*4750 ***10,600**	*7850 ***16,950**	7400 **15,850**	*5350 ***11,550**	4000 **8,650**	*3850 ***8,200**	2700 **5,850**	*3000 ***6,600**	2350 **5,150**	6.74 **22.50**
–3.0 m **–10.0 ft**	kg **lb**	*8100 ***18,150**	*8100 ***18,150**	*6100 ***13,150**	*6100 ***13,150**	*4300 ***9,200**	4050 **8,700**			*2900 ***6,300**	*2900 ***6,300**	5.81 **19.17**
–4.5 m **–15.0 ft**	kg **lb**									*2500	*2500	3.67

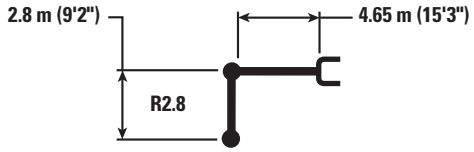
* **ISO 10567**

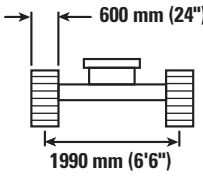
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

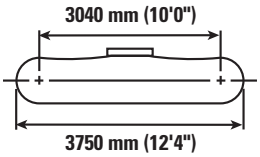
Lift capacity stays with ±5% for all available track shoes.

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

Reach Boom Lift Capacities – Counterweight: 3.56 mt (3.9 t) – Blade Down







		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				
												m ft
7.5 m **25.0 ft**	kg **lb**									*2750 ***6,250**	*2750 ***6,250**	4.21 **13.20**
6.0 m **20.0 ft**	kg **lb**					*3650 ***7,950**	*3650 ***7,950**			*2300 ***5,100**	*2300 ***5,100**	5.83 **18.88**
4.5 m **15.0 ft**	kg **lb**					*3850 ***8,400**	*3850 ***8,400**	*3500 ***7,650**	3050 **6,500**	*2150 ***4,750**	*2150 ***4,750**	6.75 **22.03**
3.0 m **10.0 ft**	kg **lb**			*6300 ***13,450**	*6300 ***13,450**	*4550 ***9,800**	*4550 **9,750**	*3750 ***8,100**	2950 **6,350**	*2150 ***4,750**	*2150 ***4,750**	7.24 **23.72**
1.5 m **5.0 ft**	kg **lb**			*8300 ***17,900**	7850 **16,850**	*5300 ***11,400**	4250 **9,200**	*4000 ***8,700**	2850 **6,100**	*2250 ***4,950**	2100 **4,600**	7.39 **24.26**
0.0 m **0.0 ft**	kg **lb**			*7050 ***16,300**	*7050 **15,950**	*5650 ***12,200**	4050 **8,750**	*4150 ***8,950**	2750 **5,900**	*2500 ***5,500**	2150 **4,650**	7.23 **23.73**
–1.5 m **–5.0 ft**	kg **lb**	*4750 ***10,600**	*4750 ***10,600**	*7900 ***17,100**	7350 **15,800**	*5400 ***11,650**	4000 **8,550**	*3850 ***8,300**	2700 **5,800**	*3000 ***6,600**	2350 **5,100**	6.73 **22.05**
–3.0 m **–10.0 ft**	kg **lb**	*8100 ***18,150**	*8100 ***18,150**	*6200 ***13,300**	*6200 ***13,300**	*4350 ***9,300**	4000 **8,600**			*2900 ***6,350**	2850 **6,350**	5.80 **18.91**
–4.5 m **–15.0 ft**	kg **lb**									*2550	*2550	3.66

* **ISO 10567**

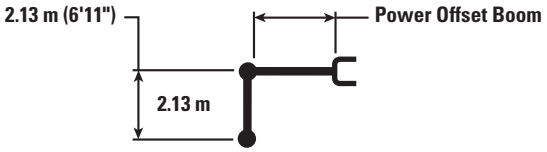
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

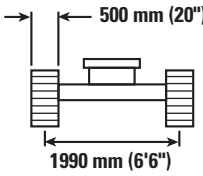
Lift capacity stays with ±5% for all available track shoes.

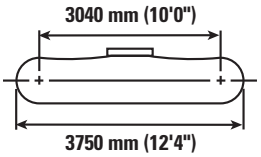
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

315F L Hydraulic Excavator Specifications

Power Offset Boom Lift Capacities – Counterweight: 3.56 mt (3.9 t) – Blade Down







		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				
												m **ft**
6.0 m **20.0 ft**	kg **lb**			*4550 ***10,000**	*4550 ***10,000**					*2750 ***6,150**	*2750 ***6,150**	4.21 **14.17**
4.5 m **15.0 ft**	kg **lb**			*5000 ***10,800**	*5000 ***10,800**	*4150 ***9,050**	*4150 ***9,050**			*2650 ***5,800**	*2650 ***5,800**	5.42 **18.33**
3.0 m **10.0 ft**	kg **lb**			*6600 ***14,200**	*6600 ***14,200**	*4600 ***10,000**	4450 **9,600**	*3000	2850	*2750 ***6,050**	*2750 ***6,050**	6.02 **20.00**
1.5 m **5.0 ft**	kg **lb**			*8050 ***17,400**	7450 **16,050**	*5150 ***11,100**	4100 **8,850**	*3850 ***8,350**	2700 **5,800**	*3100 ***6,800**	2600 **5,650**	6.21 **20.83**
0.0 m **0.0 ft**	kg **lb**			*7850 ***17,100**	7050 **15,150**	*5250 ***11,300**	3900 **8,350**	*3750	2600	*3750 ***8,250**	2600 **5,700**	6.01 **20.00**
–1.5 m **–5.0 ft**	kg **lb**	*6300 ***14,050**	*6300 ***14,050**	*6700 ***14,450**	*6700 ***14,450**	*4650 ***10,050**	3800 **8,200**			*3700 ***8,100**	3000 **6,550**	5.40 **18.33**
–3.0 m **–10.0 ft**	kg **lb**			*4450 ***9,450**	*4450 ***9,450**					*3300 ***7,150**	*3300 ***7,150**	4.17 **14.17**

* **ISO 10567**

*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.

Work Tool Offering Guide*

Boom Type	Reach Boom	
Stick Size	**R3.0 m (9'10")**	**R2.8 m (9'2")**
Hydraulic Hammer	H110Es H115Es	H110Es H115Es
Mobile Scrap and Demolition Shear	S320B**	S320B**
Compactor (Vibratory Plate)	CVP75	CVP75
Contractors' Grapple	G112B	G112B
Trash Grapple	These work tools are available for the 315F L. Consult your Cat dealer for proper match.	
Thumbs		
Rakes		
Cat Pin Grabber Coupler		

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

**Boom Mount.

315F L Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Width		Capacity		Weight		Fill	Reach Booms			POB**
	mm	in	m^3	yd^3	kg	lb	%	R3.0 m (9'10")	R2.8 m (9'2")	3.0 m (9'10") Thumb*	2.13 m (6'11")
Without Quick Coupler											
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	◉	◉	⊖	X
	1200	48	0.76	1.00	510	1,125	100	X	X	X	X
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	◉	●	⊖	X
Maximum load pin-on (payload + bucket)							kg	1605	1690	1555	2275
							lb	3,537	3,725	3,427	5,014

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.

*Densities with 3.0 m (9'10") thumb stick do not consider thumb weight.

**POB installs blade as standard configuration.

Maximum Material Density:

- ● 2100 kg/m^3 (3,500 lb/yd^3)
- ◉ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)
- X Not recommended

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.

Bucket Specifications and Compatibility

	Width		Capacity		Weight		Fill	Reach Booms			POB**
	mm	in	m^3	yd^3	kg	lb	%	R3.0 m (9'10")	R2.8 m (9'2")	3.0 m (9'10") Thumb*	2.13 m (6'11")
With Quick Coupler											
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	◇	○	◇	◉
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 with coupler (payload + bucket)							kg	1359	1444	1309	2029
							lb	2,996	3,183	2,885	4,472

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.

*Densities with 3.0 m (9'10") thumb stick do not consider thumb weight.

**POB installs blade as standard configuration.

Maximum Material Density:

- ● 2100 kg/m^3 (3,500 lb/yd^3)
- ◉ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)
- ○ 1200 kg/m^3 (2,000 lb/yd^3)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)

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.

315F L 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
- Power outlets, 5 amp
- Travel alarm
- Laminated glass front upper window and tempered other windows

ELECTRICAL

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

ENGINE

- C4.4 ACERT diesel engine
- Biodiesel capable
- Meets Tier 4 Final emission standards
- 2300 m (7,500 ft) altitude capability
- Electric 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
- Screen filter in fuel line
- Variable speed fan with viscous clutch

HYDRAULIC SYSTEM

- Boom drift reduction valve
- 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
- Rear window for emergency exit
- Guard, travel motor protection
- Rearview camera

TECHNOLOGY

- Product Link