MONTANA Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

mdtacel@mt.gov

Make: Caterpillar

Model: AP555 with SE47 FM screed and full hopper

Equipment Type: paver

Contractor Modifications: none

Interstate Approval Conditions

Approval Type	**crossing only**
Speed:	**no restriction**
Weight:	**61,639 lb or less**
Traffic:	**approved with regular traffic**
Location Restrictions:	**no restriction**

Non-Interstate Approval Conditions

Approval Type	**denied**
Speed:	**denied**
Weight:	**denied**
Traffic:	**denied**
Location Restrictions:	**denied**

Comments:

Equipment configuration, weights, and specifications on following pages. Approval does not apply to load posted bridges. Other construction equipment is not allowed to operate on or cross bridge at the same time this equipment is on the bridge.

AP 555 Cat Paver



Cat® AP555 Asphalt Paver

Technical Specifications

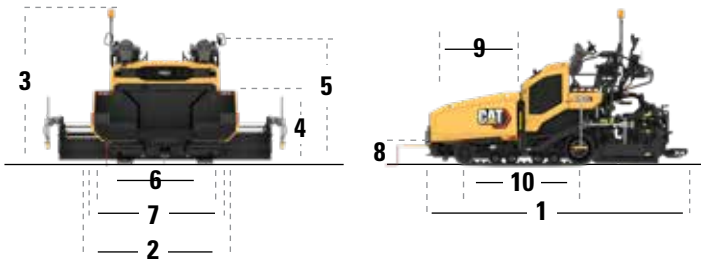
Power Train		
Engine Model	Cat C4.4	
Engine power @ 2200 rpm (ISO 14396-2002)	110 kW	148 hp
Meets U.S. EPA Tier 4 Final emission standards.		
Speed – paving	61 m/min	200 ft/min
Speed – travel	11 km/h	7 mph

Service Refill Capacities		
Maximum throughput capacity	1000 Tonnes	1100 US Tons
Hopper capacity	6.1 m^3	215 ft^3
Fuel Tank	200 L	53 gal
Cooling System	24 L	6.3 gal
Engine Oil	9 L	2.4 gal
Hydraulic Tank	121 L	32 gal
DEF Tank	19 L	5 gal
Washdown Spray Tank	32 L	8.5 gal

Machine Weight		
Paver only (shipping)	12 244 kg	26,993 lb
w/SE47 V screed (operating)	15 172 kg	33,448 lb
w/SE47 FM screed (operating)	15 281 kg	33,689 lb
Operating Weights are approximate and include coolant, lubricants, full fuel tank , 75 kg (165 lb) operator, and grade control components.		

Paving Range		
SE47 V		
Standard range	2.4 m - 4.7 m	8' - 15' 6"
Maximum width w/extensions	6.1 m	20'
SE47 FM		
Standard range	2.4 m - 4.7 m	8' - 15' 6"
Maximum width w/extensions	6.2 m	20' 6"

	Dimensions		
1	Operating length w/ SE47 V screed	5909 mm	19' 4"
	Shipping length w/ SE47 V screed	5648 mm	18' 6"
	Operating length w/ SE47 FM screed	5865 mm	19' 3"
	Shipping length w/ SE47 FM screed	5630 mm	18' 6"
2	Operating width (hoppers lowered)	3281 mm	10' 9"
3	Operating height (beacon)	3276 mm	10' 9"
4	Operating platform height	1655 mm	5' 5"
5	Transport height (steering wheel)	2814 mm	9' 3"
6	Transport width w/end gates	2590 mm	8' 6"
7	Truck entry width	3149 mm	10' 4"
8	Truck entry height (hopper)	567 mm	22"
	Truck entry height (manual apron)	525 mm	21"
9	Hopper length	1925 mm	6' 4"
10	Axle to axle - center drive to front idler	2533 mm	100"
	Auger diameter	355 mm	14"



Product Specifications For AP555

Dimensions

Paving Range with SE47 FM	2.4 m - 6.1 m (8' - 20')
Paving Range with SE47 V	2.4 m - 6.2 m (8' - 20' 6")
Truck Entry Height	22 in
Operating Length	19.25 ft
Operating Width	10.75 ft
Overall Height	10.75 ft
Transport Length	18.5 ft
Transport Width	8.5 ft
Transport Height	825 ft

Engine

Engine Power (1)	148 hp
Engine Model (1)	Cat C4.4

Operating Specifications

Maximum Throughput Capacity	1100 ton(US)/h
Maximum Paving Speed	200 ft/min
Maximum Travel Speed	7 mile/h

Weights

Operating weight with SE47 FM	33689 lb

Operating weight with SE47 V	33448 lb
Shipping Weight - Paver Only	26993 lb

Service Refill Capacities

Fuel Tank	53 gal (US)
DEF Tank	5 gal (US)
Cooling System - Total	6.3 gal (US)
Hydraulic Oil Tank	32 gal (US)
Washdown Spray Tank	8.5 gal (US)

AP555 Standard Equipment

Operating Environment

Dual operating stations
Steering guide
Steering, spring return
Ventilation system

Technology

Product Link™ Elite 643 (cellular)

Powertrain

Cooling fan, variable speed
Mobil-trac, smooth belt

Electrical System

1400 CCA battery
150-amp alternator
12-volt charging system
Automotive-type fuse system
Auto-reset breaker for material sensors
Battery, maintenance-free
Cat Electronic Technician (Cat ET)
Remote start receptacle

Material Delivery

Auger extensions, 0.15 m (6")
Material feed sensors, contact
Push-roller, adjustable

Service And Maintenance

Hydraulic oil, Cat HYDO Advanced
Remote access drains
Remote flash
Service repair kits
Sampling ports for Scheduled Oil Sampling
Sight Gauges, engine coolant, hydraulic oil

Safety

Mirror package
Alarm, back-up
Horn, warning (front & rear)
Lights, LED Working

AP555 Optional Equipment

Operating Environment

Canopy
Deceleration pedal
Heated seat
Friction Steering
Umbrella
Side shields
Windshield

Technology

Cat Grade Control
Basic Grade Control
Product Link™ Elite 683 Cellular/Satellite

Powertrain

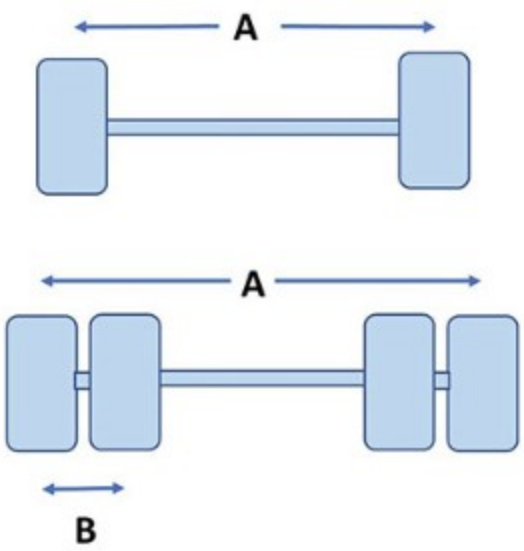
Ballast - front weights

Material Delivery

Auger extensions, 0.46 m (1.5')
Mainframe extensions, power
Mainframe extensions, manual
Material feed sensors, sonic
Truck hitch
Wash-down pump and reel

If your company would like to submit equipment to be considered for inclusion in the ACEL, provide an application to MDT at: mdtacel@mt.gov
ACEL analysis is listed below.

- Equipment manufacturer's product specifications See above.
- Detailed dimensions and data for equipment on wheels
  - Equipment Width (dimensions A and B)



  - Equipment Length (center of front axle to center of rear axle)
  - Number of axles
  - Distance between axles (center of tire to center of tire)
  - Maximum Gross Equipment Weight
- Detailed dimensions and data for equipment on tracks
  - Equipment Width (center of track to center of track – if there is only one line of tracks, note this in the measurements 6 feet
  - Equipment Length (center of front track to center of rear track) 8.4 feet
  - Number of tracks in each track line 1 track
  - Length of each track 10.4 feet
  - Maximum Gross Equipment Weight 33,689 lbs
- Information on any equipment modifications on your equipment (note that some modifications may preclude inclusion onto the ACEL)
- Contractor's contact information for ACEL analysis-related correspondence or follow-up information.