MONTANA Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

mdtacel@mt.gov

Make:	Caterpillar + Weiler
Model:	AP1055F with SE60 V XW screed and full hopper + E550C
Equipment Type:	paver + windrow elevator
Contractor Modifications:	none

Interstate Approval Conditions

Approval Type	Crossing Only
Speed:	no restriction
Weight:	83,760 lb or less + 21,400 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.



Cat®
AP1055F
PAVER

FEATURES:

HIGH RETURN ON INVESTMENT
- Higher resale value: long-life components, and latest engine emissions technology
- Exclusive 70 kW integrated generator, designed for long life by the same team that developed the D7E electric drive dozer
- Fast heating screed leads to more daily production, heating time in as little as 15 minutes
- Mobil-trac™ undercarriage limits tow-point movement for excellent paving results
- Exclusive air flow design improves operating conditions for the crew and keeps components cooler for lasting durability

ADVANCED TECHNOLOGY
- Exclusive screed heating system monitors elements for failure conditions, eliminates unnecessary replacement
- Cat® Grade and Slope option integrated in the tractor and screed displays for optimized operator efficiency
- Propel and feeder system settings transfer between stations with a single switch; Cat exclusive
- Auto-fill feeder system simplifies setup
- Single touch feeder system activation optimizes efficiency
- Automated travel feature; augers and hydraulic mainframe extensions raise with the screed, preventing damage during transport
- Product Link™ remotely monitors machine location, daily hours of operation, fuel consumption, fault codes, and preventative maintenance status, for optimal machine support

HIGH QUALITY RESULTS, HIGHER EARNINGS
- SE60 XW screeds deliver excellent ride, density, and mat texture while providing superior adjustment capabilities up to 10 m (33')
- SE60 V screed delivers great ride and mat qualities while providing versatility in urban areas as well as interstate applications
- Tow-point utilizes exclusive linkage design for optimal screed flotation
- Exclusive 2-speed proportional control on the screed extenders

LOW OWNING AND OPERATING COSTS
- Exclusive Eco-mode and Automatic Engine Speed Control reduce fuel consumption and lower sound levels for better comfort and communication
- 4-pump feeder system is designed for high production in Eco-mode, leads to lower fuel consumption
- Keypad switches have been tested to 1-million cycles without failure
- Conveyor bed plates and chain guards designed to minimize labor requirements and provide lower cost replacement
- Heating elements slide-out for easy replacement
- Machined screed frames simplify screed plate replacement

UNMATCHED AFTER-THE-SALE SUPPORT
- Strategically located dealers with 24/7 support
- In-the-Iron service training for technicians
- Paver Operator Training helps maximize machine performance
- Project consulting helps improve technique and job site management

Specifications:

Engine – Powertrain

Cat C7.1 ACERT™ Engine		
Australia, U.S., and Canada*	168 kW	225 hp
* Engine meets U.S. EPA Tier 4 Final/E.U.Stage IV emission standards.		
Cat C7.1 Engine		
China, Middle-East, Russia, South America**	186 kW	249 hp
** Engine meets emissions equivalent to U.S. EPA Tier 3 and E.U. Stage IIIA requirements.		
Number of cylinders	6	
Engine speed - maximum/minimum	2200/1100 rpm	
Eco-mode	1650 rpm	
Screed heating - standard width (Quiet)	1300 rpm	
Screed heating - w/extensions (Quick)	1300 to 2200 rpm	
Speed ranges:		
Paving	70 mpm	230 fpm
With Tamper-bar screed	25 mpm	82 fpm
Travel	14.5 km/hr	9 mph

Weights - Australia, U.S. and Canada

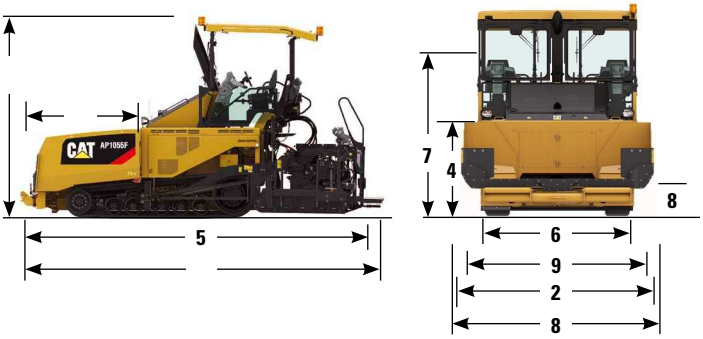
AP1055F (tractor only - shipping)	16 691 kg	36,804 lb
AP1055F (tractor only - operating)	17 031 kg	37,553 lb
AP1055F with SE60 V screed	20 452 kg	45,090 lb
AP1055F with SE60 V XW screed	21 128 kg	46,580 lb
AP1055F with SE60 VT XW screed	21 918 kg	48,320 lb

Weights - China, Middle-East, Russia, South America

AP1055F (tractor only - shipping)	16 716 kg	36,852 lb
AP1055F (tractor only - operating)	17 355 kg	38,261 lb
AP1055F with SE60 V screed	20 618 kg	45,455 lb
AP1055F with SE60 V XW screed	21 128 kg	46,580 lb
AP1055F with SE60 VT XW screed	21 918 kg	48,320 lb

Operating weights include full fuel tank and 75 kg (165 lb) operator.

AP1055F Specifications



Dimensions:

1	Operating length with SE60 V screed	6840 mm	22' 5"
	Operating length with SE60 V XW, VT XW screed	7030 mm	23' 1"
	Operating length without screed	5609 mm	18' 5"
2	Operating width – standard entry hopper	3350 mm	11' 0"
	Operating width – low entry hopper	3604 mm	11' 10"
3	Operating height with canopy, (top of beacon)	4000 mm	13' 1"
	Operating height without canopy	3715 mm	12' 2"
4	Operating deck height	1791 mm	5' 11"
5	Transport length with SE60 V screed	6710 mm	22' 0"
	Transport length with SE60 V XW, VT XW screed	6900 mm	22' 8"
6	Transport width - with endgates	3211 mm	10' 6"
	Transport width - endgates folded	3000 mm	9' 10"
7	Transport height - canopy retracted	3060 mm	10'
	Transport height - without canopy	2930 mm	9' 7"
8	Truck entry height with standard entry hopper		
	Manual apron	570 mm	22.5"
	Hydraulic apron	616 mm	24"
	Truck entry height with low entry hopper		
	Manual apron	521 mm	20.5"
	Hydraulic apron	587 mm	23"
9	Truck entry width - standard entry hopper	3224 mm	10' 7"
	Truck entry width - low entry hopper	3490 mm	11' 6"
10	Hopper length with pushroller - minimum	2414 mm	7' 11"

Screed Specifications

Standard paving range	3.0 - 5.95 m	10' - 19' 6"
Maximum paving width with extensions	7.65 m	25'
Maximum paving depth	305 mm	12"
Crown range - SE60 V, V XW*	-3% to +10%	
SE60 VT XW**	-1.5% to 5%	
Extender height range	-20 mm to + 50 mm	
Extender slope range	-3% to +10%	

* Scale indicator represents total crown for the screed.
** Scale indicator represents crown for each side of the screed.
Note: Total crown capability is the same for both vibratory and tamper bar screeds.

Electrical System

Starting and Charging	24-volt
Alternator	115 amp
Batteries	Two, 1400 CCA
Generator	70 kW
Auxiliary power capability	6.6 kW
Machine Security System	Wire-ready
Product Link System	Wire-ready
Remote jump-start	Yes
Cat Grade and Slope	Integrated

Capacities

Maximum throughput capacity	1602 tonnes/h	1,766 tph
Hopper capacity with tunnels		
Standard entry hopper	7.6 m^3	267 ft^3
Low entry hopper	8.1 m^3	286 ft^3
Fuel tank	348 L	92 gal
DEF (Urea) capacity	19.1 L	5 gal
Cooling system	45.4 L	12 gal
Engine oil	16 L	4.2 gal
Hydraulic tank	219 L	58 gal

Optional Equipment

- Air-ride Seat w/Heat
- Auger and Mainframe Extensions
- Ballast (front bumper)
- Cat Grade and Slope Controls
- Decelerator Pedals
- Ecological Washdown System
- Feeder Sensor (mechanical or sonic)
- Friction Steering
- Hard Top Canopy
- HID Lights
- Leveling Devices
- Lights (Working or Roading)
- Smooth/treadbar belt
- Oscillating Push Roller
- Power Folding Front Apron
- Power Mainframe Extensions
- Product Link
- Tow-point Indicators (Upper)
- Track Plow
- Truck Hitch
- Umbrella
- Up-time Kit
- Warning Beacon
- Wide Width Paving Packages
- Windshield w/hard top canopy

Materials and specifications are subject to change without notice.
Featured machines in photos may include additional equipment.
For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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Product ID: AP1055F

E550C WINDROW ELEVATOR





BUILT FOR HIGH PRODUCTION.

Tackle windrows with 121" (3073 mm) wide conveyor throat and 600 tph (544 mtph) capacity. 84" (2134 mm) discharge height for increased paver hopper material storage.



RELIABLE POWER.

The Cat C4.4 Tier 4 engine with 137 HP (102 kW) produces clean, quiet power. The elevator is powered by a high-torque, direct-drive motor which eliminates a gearbox and is kept cool by a loop flush return system.



SIMPLE OPERATION.

Operating controls are located on both sides of the machine with easy-to-access chain speed and direction control. Manual hydraulic valves keep the system simple.



REMIXING DISCHARGE HOPPER.

The optional remixing discharge hopper provides consistent material mix to the paver with independent doors to control material flow and hydraulically moves into and out of position.



TRANSPORT AXLE.

The optional transport axle simplifies transportation of the E650C or E550C windrow elevator at highway speeds. The axle quickly pins on and off the elevator and includes a hydraulic tongue for convenient hook-up to the tow vehicle.



FAST SERVICE.

Two large doors and platforms allow easy access to the engine compartment. Electronic controller provides machine conditions, diagnostics and calibrations. Caterpillar dealer service, support and inventoried parts help keep the machine up and running.

E550C SPECIFICATIONS

WEIGHT	21,400 lb	9707 kg
HEIGHT	124″	3150 mm
LENGTH	220″	5588 mm
LENGTH (RAISED TOW)	186″	4724 mm
WIDTH (WINGS IN)	103″	2616 mm
WIDTH (WINGS OUT)	125″	3175 mm

ENGINE	Cat® C4.4 Tier 4	
HORSEPOWER	137 hp	102 kW
THROAT WIDTH	121″	3073 mm
ELEVATOR SLAT WIDTH	58″	1473 mm
ELEVATOR SLAT DEPTH	7″	178 mm
DISCHARGE HEIGHT	84″	2134 mm

FRONT WHEEL CYL. LIFT	8″	203 mm
FRONT TIRE SIZE	16″ (406 mm) x 7″ (178 mm)	
REAR TIRE SIZE	235/75/17.5	
FUEL CAPACITY	50 gal	189 L
HYDRAULIC CAPACITY	40 gal	151 L

POWERTRAIN

- Cat® C4.4 Tier 4 engine
- 137 hp (102 kW)
- High-torque, direct drive motor powers elevator

OPERATING ENVIRONMENT

- Dual side operating controls
- Adjustable speed chain control with reverse
- Manual hydraulic valves

MATERIAL DELIVERY

- 600 tph (544 mtph) capacity
- Independent height control of each side of machine
- 121″ (3073 mm) elevator throat width
- 84″ (2134 mm) discharge height
- 58″ (1473 mm) wide by 7″ (178 mm) deep elevator slats
- 8″ (203 mm) front wheel cylinder lift
- Adjustable outer scrapers

PAVER HOOKUP

- Toolless sliding hitch
- Swing-up towing frame
- Hydraulic pin push frame option

OPTIONAL REMIXING DISCHARGE HOPPER

- Provides consistent mix of material to paver
- Hydraulically moves into and out of position

SALES AND SERVICE

Sold and serviced exclusively through Caterpillar dealers worldwide.

OPTIONAL TRANSPORT AXLE

- Heavy-duty 22,500 lb (10 205 kg) axle
- Tow elevator at highway speeds
- Hydraulic lift cylinders
- Hydraulic towing frame
- Quickly pins on/off elevator

SERVICE/MAINTENANCE

- Hinged engine doors accessible from large platforms
- Electronic controller provides machine diagnostics and calibrations
- Face-sealed hoses and fittings
- Braided electrical harnesses and sealed connections
- Color-coded and numbered electrical wires

OPTIONAL EQUIPMENT

- Transport axle
- Hydraulic tongue
- Hydraulic pin push frame
- Remixing discharge hopper
- Chromium carbide floor plates
- Spray down for chains and sprockets
- LED lights
- Radio remote control
- Opposite side hydraulics control

WARRANTY

12 months standard. Extended warranty available.