

**ISO/IEC 24734 Printing Productivity Report: Office Category**

**Full Detailed Test Report - LETTER**

LaserJet Pro MFP M435

Printing device and settings	
Test Start Date and Time	9/27/2013 9:53
Tester	KN
Machine name/model	LaserJet Pro MFP M435
Colour or B&W	B&W
FW Version	20130911_0511
Temperature and Humidity	77 degF / 25 degC, 28 %rH
Voltage	220V
Test End Date and Time	10/2/2013 10:48

Item	Value	
Mode and Setting	Driver Version	61.145.2.15674
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	N/A
	Duplex B&W Settings	N/A
	Setting N set count	Application
	Collating function	Activated (application)
Paper Path	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Colorlok / Xerox Business 4200

Summary Report: Letter			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	15	30
	Duplex	19	22

Notes  
Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <http://www.hp.com/go/pinterclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

Detailed Report: LETTER						
	Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Color Mode	Simplex - Adobe Reader		( 1 set )			
	Simplex - Word		( 1 set )			
	Simplex - Excel		( 1 set )			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	15.33	15.64 ( 1 set )	26.76 ( 8 sets )	29.15 ( 36 sets )	30.63
	Simplex - Word	14.14	16.96 ( 1 set )	27.81 ( 8 sets )		30.62
	Simplex - Excel	14.11	17.00 ( 1 set )	27.81 ( 8 sets )		30.63
	Simplex - Average	15	16	27	29	30
	Duplex - Adobe Reader	19.06	12.58 ( 1 set )	19.94 ( 7 sets )		22.30
	Duplex - Word	17.95	13.36 ( 1 set )	20.16 ( 6 sets )		22.24
	Duplex - Excel	18.04	13.28 ( 1 set )	20.14 ( 6 sets )		22.24
	Duplex - Average	19	13	20		22

Notes  
Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <http://www.hp.com/go/pinterclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Builitn
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

**ISO/IEC 24734 Printing Productivity Report: Office Category**

**Full Detailed Test Report - A4**

LaserJet Pro MFP M435

Printing device and settings	
Test Start Date and Time	9/27/2013 9:53
Tester	KN
Machine name/model	LaserJet Pro MFP M435
Colour or B&W	B&W
FW Version	20130911_0511
Temperature and Humidity	77 degF / 25 degC, 28 %rH
Voltage	220V
Test End Date and Time	10/2/2013 10:48

Item	Value	
Mode and Setting	Driver Version	61.145.2.15674
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	N/A
	Duplex B&W Settings	N/A
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
Paper	Duplexing Unit (Yes/No)	Yes
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
Paper type/name		HP Multipurpose Colorlok / Xerox Business 4200

Summary Report: A4			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	15	31
	Duplex	19	22

Notes  
Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <http://www.hp.com/go/pinterclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

Detailed Report: A4						
	Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Colour Mode	Simplex - Adobe Reader		( 1 set )			
	Simplex - Word		( 1 set )			
	Simplex - Excel		( 1 set )			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	15.15	15.83 ( 1 set )	27.61 ( 8 sets )	30.04 ( 37 sets )	31.58
	Simplex - Word	14.10	17.00 ( 1 set )	28.50 ( 8 sets )		31.58
	Simplex - Excel	14.04	17.07 ( 1 set )	28.53 ( 8 sets )		31.60
	Simplex - Average	15	16	28	30	31
	Duplex - Adobe Reader	19.19	12.48 ( 1 set )	20.02 ( 7 sets )		22.52
	Duplex - Word	17.99	13.34 ( 1 set )	20.66 ( 7 sets )		22.52
	Duplex - Excel	17.96	13.36 ( 1 set )	20.64 ( 7 sets )		22.52
	Duplex - Average	19	13	20		22

Notes  
Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <http://www.hp.com/go/pinterclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCXHR ATA
I/O Subsystem	Builitn
USB Subsystem	USB 2.0/3.0
TCP/IP	
	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

**ISO/IEC 29183 Copy Productivity Report**

Full Detailed Test Report - LETTER

LaserJet Pro MFP M435

Machine Setup Information	
Test Start Date and Time	9/27/2013 9:53
Tester	KN
Machine name/model	LaserJet Pro MFP M435
Colour or B&W	B&W
Configuration (options)	Not Specified
Temperature and Humidity	77 degF / 25 degC, 28 %rH
Test End Date and Time:	10/2/2013 10:48

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None

Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Colorlok / Xerox Business 4200

Summary Report: Letter		
	sFCOT	sESAT (ipm)
B&W	9	30
Notes First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> . Exact speed varies depending on the system configuration and document.		

Detailed Report: LETTER							
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)	
			1copy	1copy+30sec	1copy+4minutes		
B&W	A	8.60	6.96	26.19		30.63	
				20 sets			
	B	8.61	6.96	26.17		30.63	
				20 sets			
	C	8.61	6.96	26.19		30.63	
				20 sets			
	D	8.61	6.96	26.19		30.64	
				20 sets			
	Average		9	6	26		30
	First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> . Exact speed varies depending on the system configuration and document.						

**ISO/IEC 29183 Copy Productivity Report**

**Full Detailed Test Report - A4**

LaserJet Pro MFP M435

Machine Setup Information	
Test Start Date and Time	9/27/2013 9:53
Tester	KN
Machine name/model	LaserJet Pro MFP M435
Colour or B&W	B&W
Configuration (options)	Not Specified
Temperature and Humidity	77 degF / 25 degC, 28 %rH
Test End Date and Time:	10/2/2013 10:48

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None

Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Colorlok / Xerox Business 4200

Summary Report: A4		
	sFCOT	sESAT (ipm)
B&W	9	31

Notes  
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.

Detailed Report: A4							
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)	
			1copy	1copy+30sec	1copy+4minutes		
B&W	A	8.56	7.00	26.87		31.59	
				20 sets			
	B	8.58	6.98	6.98	26.88		31.58
					20 sets		
	C	8.55	7.00	7.00	26.87		31.59
					20 sets		
	D	8.53	7.02	7.02	26.87		31.57
					20 sets		
	Average		9	7	26		31

First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.