HP DesignJet Z6 Pro/Z9⁺ Pro 64-in Printers
Site Preparation Guide

SUMMARY

You are responsible for preparing the physical site for the installation of the printer.

Legal information

Legal notices

The information contained herein is subject to change without notice.

The only warranties for HP products and services are set forth in the express warranty statement accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

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1   Overview

Your printer is supplied ready to use after a few simple installation procedures described in detail in the assembly instructions. It is important to read the information provided in the site preparation guide thoroughly and to ensure complete compliance with all installation and operation requirements.

Safety procedures, warnings, cautions, and local regulations must all be adhered to. A well-prepared site helps to provide a smooth and easy installation.

Documentation

A full set of manuals are provided with your printer, and can also be downloaded.

Manuals can be downloaded from the HP website at the following links:
http://www.hp.com/go/DesignJetZ6Pro64in/manuals or http://www.hp.com/go/DesignJetZ9Pro64in/manuals.

- Introductory information

- Limited warranty

- Legal information

- Site preparation guide (this guide)

- Assembly instructions

- User guide

Customer responsibility

You are responsible for preparing the physical site for the installation of the printer.

- Prepare the building's electrical system to meet the printer's requirements and the Electrical Code requirements according to the local jurisdiction of the country where the equipment is installed. See Electrical configuration on page 7.

  📝 NOTE: Make sure that a certified electrician reviews the setup and configuration of the electrical system used to power the printer. See Electrical configuration on page 7.

- Meet temperature and humidity requirements and ensure proper ventilation for the printer. See Environmental specifications on page 4.

- Meet all requirements for RIP, networking and printing supplies. See Available Software on page 6, Networking on page 6, and Printing supplies on page 7.

- Prepare the unloading route so that the printer can be unloaded and maneuvered into place. See Unloading route on page 3.

Installation time schedule

Allow a minimum of 3 hours for the installation of HP DesignJet Z6 Pro and Z9⁺ Pro 64-in Printers. The installer may require the help of another 3 people to perform certain tasks during installation.

2   Site preparation requirements

Before installing the printer, you must check that your site is compatible with the printer and ready to receive it.

Most of the installation process can be handled by one person, but two people may be needed to perform certain tasks.

Physical space requirements

Site preparation must accommodate for a specific unloading route, environmental specifications, ventilation and air conditioning requirements.

Unloading route

There are factors to consider when planning the movement of the printer from the unloading area to the installation site.

The route between the unloading area of the printer and the installation site, including any corridors and doorways through which the printer must be transported, is important to proper site preparation and must be checked before the arrival of the printer. This pathway must be clear when the printer arrives.

Table 2-1 Physical specifications with packaging

Length	Width	Height	Weight
2800 mm (110.2 in)	750 mm (29.5 in)	1302 mm (51.3 in)	HP DesignJet Z6 Pro 64-in Printer: 262 Kg (578 lb)
			HP DesignJet Z9$^+$ Pro 64-in Printer: 264 Kg (582 lb)

Table 2-2 Physical specifications without packaging

Length	Width	Height	Weight
2605 mm (102.6 in)	790 mm (31.1 in)	1402 mm (55.2 in)	HP DesignJet Z6 Pro 64-in Printer: 169 Kg (373 lb)
			HP DesignJet Z9$^+$ Pro 64-in Printer: 170 Kg (375 lb)

Doorways without packaging: minimum width 800 mm (31.5 in) × minimum height 1700 mm (70 in) required.
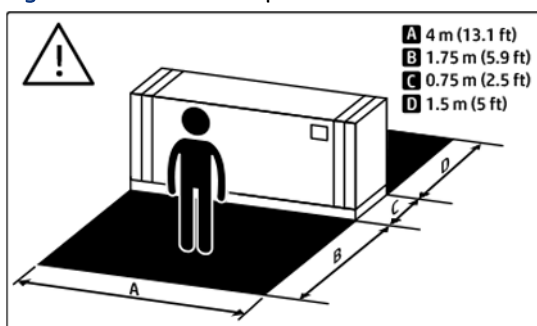
IMPORTANT: Maximum ramp slope 12º.

The space required for assembly is 4 m (13.1 ft) x 4 m (13.1 ft).

Most of the installation process requires two people, but four people are required to perform certain tasks.

The space required is illustrated in the following diagram:

Figure 2-1 Installation space


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A  4 m (13.1 ft)
B  1.75 m (5.9 ft)
C  0.75 m (2.5 ft)
D  1.5 m (5 ft)
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Printer installation videos can be seen on the HP website
at the following links: http://www.hp.com/go/DesignJetZ6Pro64in/installation-video or
http://www.hp.com/go/DesignJetZ9Pro64in/installation-video.

Environmental specifications

Environmental conditions must be kept within the specified ranges to ensure the correct operation of the printer.
Failure to do so may cause print-quality problems or damage sensitive electronic components.

Table 2-3 Environmental specifications

	Temperature	Humidity
Best print quality	15ºC (59ºF) to 30ºC (86ºF)	20%-80%, depending on paper type
Operating	5ºC (41ºF) to 40ºC (104ºF), depending on paper type	20%-80%, depending on paper type
Storage new printer without ink	-40ºC (-40ºF) to 55ºC (131ºF)	0% to 95%
Storage printer with ink inside the tubes	-5ºC (23ºF) to 55ºC (131ºF)	0% to 95%
Storage printer without ink inside the tubes but removed manually (SRK not replaced by new one)	-25ºC (-13ºF) to 55ºC (131ºF)	0% to 95%

Maximum altitude when printing 3000 m (9843 ft).

📝 **NOTE:** The printer must be kept indoors.

📝 **NOTE:** If the printer or ink cartridges/eco-cartons are moved from a cold location to a warm and humid location, water from the atmosphere can condense on the printer parts and cartridges and can result in ink leaks and printer errors. In this case, HP recommends that you wait at least 3 hours before turning on the printer or installing the ink cartridges/eco-cartons, to allow the condensation to evaporate.

In addition to controlling the temperature, humidity, and temperature gradient, there are other environmental conditions that must be met during site preparation:

● Do not install the printer where it will be exposed to direct sunlight or a strong light source.

● Do not install the printer in a dusty environment. Remove any accumulated dust before moving the printer into the area.

Ventilation

Ensure that the room in which the system is installed meets local environmental, health, and safety (EHS) guidelines and regulations.

Fresh air ventilation is needed to maintain comfort levels.

Adequate ventilation needs to be provided to ensure that potential exposure is adequately controlled. Consult the Safety Data Sheets which can be downloaded from the HP website at the following link: http://www.hp.com/go/msds to identify chemical ingredients of your ink consumables.

Airborne materials can be readily identified and quantified by using established indoor air-quality testing protocols. HP performs these assessments during the development phase for all products.

HP testing shows that, during printer operation, the concentrations of airborne contaminants measured in the workspace are consistently well below key occupational exposure limits. This observation is based on exposure assessments that model very active productivity at customer facilities. Customers should recognize that actual levels in their facilities are dependent on workspace variables they control such as room size, ventilation performance, and duration of equipment use.

HP's assessment concluded that, based on the available scientific information, airborne materials generated during the printing process are not expected to present a health hazard as long as you provide a minimum of 5 ACH (air changes per hour) of fresh air ventilation.

If there is other equipment located in the room or different environmental conditions are present, the ventilation rate should be recalculated accordingly.

Air conditioning

In addition to fresh air ventilation, to avoid health hazards, consider maintaining workplace ambient levels by ensuring the climatic operating conditions.

See Environmental specifications on page 4 to avoid operator discomfort and equipment malfunction. Air conditioning in the work area should take into account that the equipment produces heat.

Air conditioning should meet local environmental, health, and safety (EHS) guidelines and regulations.

⚠ CAUTION: The air conditioning units should not blow air directly onto the printer.

Designing the optimal print production area

Your printer requires enough space surrounding it, to comfortably operate and maintain it.

Ensure there is sufficient space to perform the following tasks:

- Print

- Replace a substrate roll

- Service the printer or replace printer components

- Ensure the printer is well ventilated

Table 2-4 Space required for printer

Width	2600 mm (102.4 in)
Depth	800 mm (31.5 in)

Table 2-4 Space required for printer (continued)

Height	1700 mm (70 in)

Optimum production space is:

- 100 mm (4 in) margin at the rear and sides of the printer.

- 200 mm (7.87 in) at the front of the printer.

Available Software

You need to identify a suitable workflow solution for the printer.

Each solution has specific requirements. See a complete list of certified solutions available for this printer on the HP website at the following links: https://www8.hp.com/us/en/large-format-printers/designjet-printers/workflow-solutions.html, and https://www8.hp.com/us/en/large-format-printers/designjet-printers/zseries-rips.html.

Make sure that the station is fully functional and ready for installation.

Networking

Your printer needs to be connnected to a suitable network.

You are responsible for all networking requirements, and you must complete the following tasks:

> **NOTE:**   In order to perform remote support, the printer must have access to the Internet using the LAN connection.

- Have a Gigabit Ethernet network ready for the day of installation.

- Provide a shielded CAT-6 or superior LAN cable to connect the printer to your network.

To get the full features for your printer, it should be connected to the Internet. Most unmanaged networks are directly connected to the Internet. However, some networks require a web proxy. A proxy is a server that acts as an intermediary between computers on your local network and servers on the Internet. Before setting up the printer, check whether your network requires a web proxy.

To check this, open Internet Explorer, Safari or Google Chrome on any computer within your network, and browse to the http://hp.com site. If you cannot connect to hp.com, your network does not have Internet access and you need to consult with your IT provider on how to configure Internet access. If you can connect to hp.com, you can check the browser settings for proxy configuration as follows:

- For Microsoft Edge, go to **Settings** > **Advanced** > **Proxy Setup** > **Open Proxy Settings**. If any of the options in **Automatic Proxy Support** are checked, then you do not need to do anything as the printer is configured to use automatic proxy by default. If **Manual Proxy** > **Use proxy server** is **On**, make a note of the address and port settings. If all the options are unchecked, you do not need to use a proxy.

- For Safari, go to **Preferences** > **Advanced** > **Proxies** > **Change Settings**. If the **Web Proxy (HTTP)** box is unchecked, you do not need a web proxy. If it is checked, make a note of the Web Proxy Server name (before the ":") and port (after the ":").

- For Google Chrome, Go to **Settings (chrome://settings/)** > **System** > **Open your computer's proxy settings**. If any of the options in **Automatic Proxy Support** are checked, then you do not need to do anything as the printer is configured to use automatic proxy by default. If **Manual Proxy** > **Use proxy server** is **On**, make a note of the address and port settings. If all the options are unchecked, you do not need to use a proxy.

- Proxy server names are typically like "proxy.mycompany.com" and proxy port is typically 80, but details are network dependent.

If you are unable to determine whether you need a web proxy or how to configure it, consult your network administrator or Internet Service Provider. If in doubt, you probably do not need a web proxy.

Printing supplies

HP DesignJet Z6 Pro and Z9$^+$ Pro 64-in Printers come with Host Eco-Cartons to perform the Out of the Box Experience (OOBE) and leave the printer ready for work. However, these Eco-Cartons are not prepared to start production after finishing installation is complete.

The following supplies should be purchased in addition to the printer and should be available on the day of installation:

- Six **HP 775** (500 ml) Eco-Carton, one for each color (Magenta, Cyan, Yellow, Chromatic Red, Photo Black and Matte Black), for Z6 Pro printers.

- Nine **HP 776** (1000 ml) Eco-Carton, one for each color (Magenta, Cyan, Yellow, Chromatic Red, Photo Black, Matte Black, Chromatic Blue, Chromatic Green and Grey), for Z9$^+$ Pro printers.

At least one paper roll to perform calibrations and printhead alignment during printer setup.

Return the site preparation checklist

The checklist must be completed and returned to your reseller or service representative a minimum of two weeks before the day of installation.

See .

📝 **NOTE:** Any delays during installation that are caused by an unprepared site will be charged to the customer. Take care that your site is properly prepared to ensure a smooth and easy installation.

Electrical configuration

Your printer requires the some electrical components to be supplied and installed by the customer, according to the Electrical Code requirements of the local jurisdiction of the country where the equipment is installed.

📝 **NOTE:** If configuration of the building electrical system used to power the printer needs to be modified to meet printer requirements, an electrician is required. Make sure that your electrician is appropriately certified according to local regulations and supplied with all the information regarding the electrical configuration.

Components required:

Single-phase power

The printer is powered via a single-phase 2-wire and protective earth connection.

Table 2-5 Power specifications

Description	Specification
Number of power cords	1
Input voltage	100–240 V (two wires and protective earth)
Input frequency	50 / 60 Hz
Maximum load current	Printer: 3 A
Power consumption in printing mode	Printer: 150 W
Power consumption in ready mode	35 W

Circuit breakers

Printers must be connected to a building electrical installation that includes 16A/20A circuit breakers (depending on the local jurisdiction of the Country where installed).

NOTE: The circuit breakers must meet the requirements of the printer and should be in accordance with the Electrical Code requirements of the local jurisdiction of the country where the equipment is installed.

Table 2-6 Dedicated lines per SKU

Characteristic	Specification
Branch circuit breaker	2 poles, 16 or 20 A according to local laws and printer maximum load current
Residual current circuit breaker, also known as Ground Fault Circuit Interrupter (GFCI)	2 poles, 30 mA residual, at least 20 A capacity.

Powerline disturbances

As with all computer and electronic equipment, reliable operation of your printer depends on the availability of relatively noise-free AC power.

● In order to ensure optimum performance and reliability, your printer should be protected from variations in line voltage. Lightning, line faults, or the switching of lighting or machinery can generate line transients that far exceed the peak value of the applied voltage. If not reduced, these microsecond pulses can disrupt system operation and damage the printer.

● It is recommended to include overvoltage (OVP) and transient protection in the power supply to the printer.

● All electrical noise-generating equipment, such as fans, fluorescent lighting, and air-conditioning systems, should be kept separate from the power source used for your printer.

Grounding

The printer must be connected to a good-quality ground line in order to avoid electrical risk. Please note your obligation to comply with the Electrical Code requirements of the local jurisdiction of the country where the equipment is installed.

The following grounding tasks must be fulfilled to meet the site preparation requirements:

- Grounding wires must be insulated and at least equal in size to the phase conductors.

- Ground impedance must be less than 0.5 Ω or comply with the Electrical Code requirements of the local jurisdiction of the country where the equipment is installed.

3 Site preparation checklist

Complete and return the checklist to your reseller or service representative a minimum of two weeks before the day of installation.

Table 3-1 Safety requirements

Question	Yes	No	Comments
Do those who will operate the printer have the technical training and experience necessary to be aware of hazards to which they may be exposed in performing a task, and to take appropriate measures to minimize the risks?	☐		(Required)
Is there an emergency exit in the print production area, with easy access and free from any obstruction?	☐	☐	

Table 3-2 Electrical installation requirements

Question	Yes	No	Comments
Is the electrician aware of all requirements and specifications highlighted in this guide?	☐		(Required)
Is the single-phase line voltage inside the specified voltage range, 100–240 V ±10%?	☐		(Required) Specify nominal mains voltage:
Are there the dedicated lines to connect printer's power cords? NOTE: Do not use a power strip (relocatable power tap) to connect both power cords.	☐		(Required)
Have branch circuit breakers (2 poles, 16 A/20 A general) been correctly installed for each dedicated line?	☐		(Required)
Have the Residual Current Circuit Breaker (also known as Ground Fault Circuit Interrupter) (2 poles, 30 mA residual, at least 20A capacity) been correctly installed if required or recommended?	☐		(Required)
Is the Power Distribution Unit (PDU) correctly installed?	☐		(Required)
Are the grounding conductors properly installed for each wall receptacle (wall socket)?	☐		(Required)
Are the wall receptacles (wall sockets) suitable for the power cord plug type provided by HP?	☐		(Required)
Are the wall receptacles (wall sockets) and electrical installation suitable for the printer's rated current ? NOTE: See Single-phase power on page 7 for further information.	☐		(Required)
Are the wall receptacles (wall sockets) placed close enough to the printer that the plugs can be plugged and unplugged easily?	☐		(Required)

Table 3-3 Electrical configuration requirements

Question	Yes	No	Comments
Do you need an Uninterrupted Power Supply (UPS) or step-up transformer? If so, is it correctly installed?	☐	☐	

Table 3-4 Networking and computer requirements

Question	Yes	No	Comments
Is the RIP computer and software ready for installation?	☐	☐	
Have network connections been supplied as per spec?	☐	☐	
Do you need a web proxy? If so, write down proxy server name and port.	☐	☐	
Do you have a color sensor that is compatible with your RIP?	☐	☐	
Do you have a shielded LAN cable long enough to connect the printer to the network?	☐	☐	

Table 3-5 Environmental requirements

Question	Yes	No	Comments
Have the temperature and humidity requirements been satisfactorily met in the print production area?	☐	☐	
Have the temperature and humidity requirements been satisfactorily met in the storage area?	☐	☐	
Is the print production area free from dirt and dust?	☐	☐	
Does the print production area have sufficient lighting?	☐	☐	
Have you checked the required ventilation and air-conditioning specifications with an expert?	☐		(Required)

Table 3-6 Other requirements

Question	Yes	No	Comments
Have you arranged for supplies such as substrate and ink cartridges/eco-cartons to be available on the day of installation?	☐	☐	
Have you met the requirements specified in this guide?	☐		(Required)

Table 3-7 Customer information

Please enter the requested information
Date of site preparation completion
Site preparation guide edition number or copyright date
Customer signature

Table 3-7 Customer information (continued)

Please enter the requested information