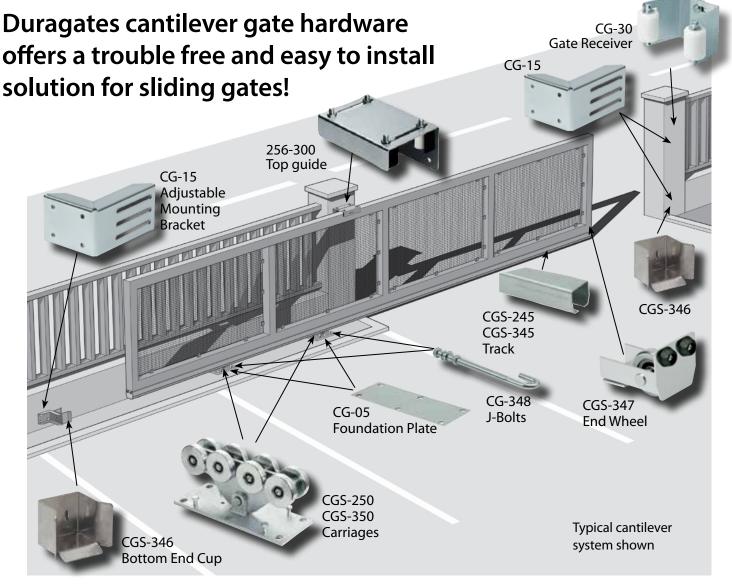


Product Manual

TABLE OF CONTENTS

ABOUT THE SYSTEM	1
GATE DESIGN & SITE CONSIDERATIONS	2-8
INSTALLATION INSTRUCTIONS	9-15
TIPS & HINTS	16-18





This simple, yet heavy duty system can handle almost all sliding gate applications. Sealed bearings and covered rollers avoid many of the usual maintenance and efficiency problems due to weather elements. They also help comply with UL325 and ASTM F2200 gate safety standards.

All products are manufactured in Italy by Fratelli Comunello, the world leaders in gate hardware. The technical innovation in the system, as compared to a traditional sliding gate, lies in the fact that the entire gate is cantilevered off the ground without any rollers traveling on the ground. This allows for free movement of the gate in uneven ground conditions and reduces the wear and tear on the gate and on any installed gate automation. The sealed bearings on the carriage assembly require no maintenance or lubrication. Besides, it gives the gate a nice clean look with minimal visible hardware. This engineered solution also reduces the length of the counterbalance resulting in a smaller overall gate length.

The bottom track is available in galvanized steel, aluminum track and stainless steel and can accommodate a solution for every type of rolling gate project. By welding or mechanically fastening the gate to the bottom track, Duragates sliding gate system can be used with any gate material such as steel, wood, vinyl, aluminum, chain link, etc.

The model selection depends on the combination of the size of the opening and the weight of the gate. Based on the combination, several models may fit your project. The heavier the model, the smaller the counterbalance (tail of the gate) which becomes increasingly important when you have a tight space. Our cantilever gate configurator will provide you the optimal selection of model along with dimensions of the tail of the gate, the position of the carriages and the foundation size required.

The hardware, combined with a range of high-quality gate automation we offer, is truly a long lasting and complete solution for any cantilever sliding gate. Send us your sliding gate details for a customized gate configuration.



MATERIAL OF GATE OR GATE FRAME

The following information is required to make sure the hardware selected for the gate will be sized correctly to carry the load and give an expected long service life.

With this system, the gate infill can be of any material as long as you can attach it to the bottom track. Some common combinations are as follows.

Steel Gates that weld or bolt directly to steel track

- Chain Link
- Ornamental Steel
- Wood gates on a welded steel frame
- Wood framed gates

Aluminum Gates that weld or bolt directly to aluminum track

- Ornamental Aluminum
- PVC gate on an aluminum frame
- Wood gate on an aluminum frame

Stainless Steel Gates that weld or bolt directly to stainless steel track

- Stainless Steel Gates
- Unique and/or exotic metal gates

PVC Gates These gates need to have a metal frame for structural support.

Aluminum or stainless is compatible with PVC, but we do not recommend galvanized steel track for PVC gates because of accelerated corrosion issues. If the galvanized steel is separated by some sort of a barrier (i.e. (rubber, plastic, stainless) material, the corrosion process may be slowed down.

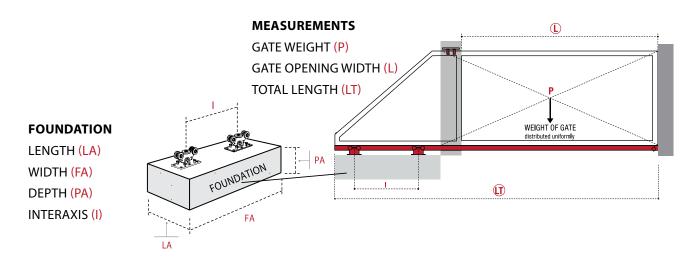
WIDTH OF THE OPENING

This is typically the width of the driveway, dimension (L), in the image below.

NOTES:

If the gate is required to travel more than 4 inches past the opening (the "closed" position), then this extra distance should be added to (L) opening size.

If the foundation pad will need to be set back farther than 9" away from the opening for any reason, then this extra distance should be added to (L) opening size. Reasons could include "something" in the ground (pipes, conduit/electrical, drainage, etc.), an obstruction, or could be for aesthetic reasons.





WEIGHT OF THE GATE

When we estimate the weight, we typically are thinking of, and include the full length of the gate assuming a 50% tail section.

However, for our purposes, this is the estimated or calculated <u>weight of the gate for the portion that spans over the opening</u>
<u>length (L)</u> and does not include the tail section. Clarify if possible, how the weight was determined. The weight of the cantilever track need NOT be included in the gate weight estimate (P).

Note: Most fence installers and fabricators tend to overestimate the gate weight.

The chart below shows typical per foot weights of common gates.

Gate Type and material	Typical Range	Average
Steel Picket Gate, Residential, 6 Ft high	20 - 40 lbs/ft	30 lbs/ft
Steel Security Gate, Heavier Duty	40 - 120 lbs/ft	50 lbs/ft
Aluminum Picket Gate, 6 Ft high	10 - 30 lbs/ft	15 lbs/ft
Wood Gate with Cedar planks full privacy, 6 Ft high	20 - 30 lbs/ft	25 lbs/ft
Wood Gate with Steel frame	20 - 40 lbs/ft	30 lbs/ft
Wood Gate with Aluminum Frame	15 - 30 lbs/ft	23 lbs/ft
PVC/Vinyl Privacy Gate, 6 Ft high	15 - 20 lbs/ft	17 lbs/ft
Chain Link Gate, Residential, 6 Ft high	8 - 12 lbs/ft	10 lbs/ft
Chain Link Gate, Commercial, 6 + 1, w/barbed wire	15 - 25 lbs/ft	18 lbs/ft

TAIL LENGTH AND CARRIAGE SELECTION

The Duragates system allows for a shorter tail length than the typical 50% for other types of cantilever hardware. However, there is often a tradeoff between the length of the tail section and the size of the cantilever hardware. Choosing a larger carriage will usually result in a shorter tail section.

Some other factors that affect the optimal tail length are as follows:

- If there is a space limitation you may need to upgrade to heavier hardware.
- The physical gate may already be built to a certain overall length (LT) and the track is to be fitted to the existing gate.
- For aesthetic reasons or other, it may be desirable to build the gate longer than specified.
- While extending the tail section does not change either the gate opening (L) or weight (P) parameters, it does change the "effective" opening size for the gate when the gate is in the "full open" position. More weight and length are being cantilevered in this open position than the configurator accounted for in its design.
- It is recommended that you extend both the length of the concrete pad (FA) and the carriage spacing (I) by the same distance that you extend the gate length (LT).

The carriage selection also depends on the application and frequency of use.

Residential

• Smaller, less expensive hardware is typically desirable

Multi-Family and Commercial

- Space limitations more likely
- Higher usage may warrant an upgrade to stronger hardware

Industrial

- Heavy duty hardware typically preferred
- Typically have high cycle rates, and heavy duty hardware extends gate life







ALTERNATE CARRIAGE MOUNTING OPTIONS

We recommend mounting cantilever hardware on a single pad that has been poured into the ground and extends down past the frost line. This ties the two carriages together on one solid foundation for permanent alignment and significantly reduces independent movement of the carriages.

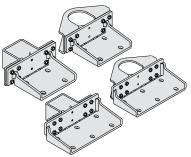
Other options for installing carriages are post mounted and pier mounted, and if done properly, it will not significantly impact the performance, although it may shorten the service life of the gate.

When using either of these alternate carriage installations keep in mind that Duragates hardware allows for shorter total gate lengths by using the weight of the concrete foundation as part of the counterweight. With post or pier mounted carriages, you need enough concrete in the ground to support the loads pushing down on one carriage AND the loads pulling up on the other. Depending on the weight and opening size, you will need piers or post holes that are 16" to 24" in diameter and deep enough that together they hold the same volume of concrete as required for pad mounted carriages.

Post Mount Installation Suggestions

- Position the "front" carriage on the end post at the opening, or on a post within 10 inches of the opening. NOTE: If the end post is used to mount the carriage, the gate will protrude into the opening a few inches when in the fully open position.
- Position the "back" carriage at the position specified by the configuration to match the carriage spacing (I). It is ok to extend the carriage mounting position back (longer) to the next post if desired, but you must follow the guidelines for "Extending the tail length of the gate". It is NOT ACCEPTABLE to reduce the carriage spacing to match up with a line post.
- Dig the holes and pour concrete equal to the volume specified by the configuration. Make the holes big enough to accommodate the concrete necessary to carry the load of the cantilevered gate.
- Confirm that the hole depth is below the frost line.
- We recommend connecting the two carriage support posts mechanically by welding or bolting a horizontal member at or just below ground level. This keeps the two carriages from moving independently and misaligning over time.
- Mount the carriages on the post mount bracket making sure 1) the orientation is correct; and 2) the carriages are level and plumb, and also level with each other as described in the installation instructions section "Set the Carriages".

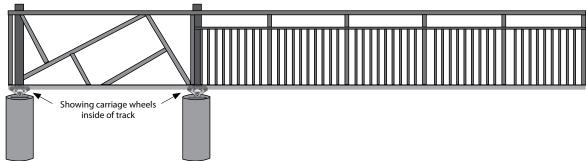




Pier Mount Installation Suggestions

- Position the "front" pier just behind the end post at the opening so the carriage can set 9 inches behind the post.
- Position the "back" pier at the position specified by the configuration to match the carriage spacing (I).
- Dig the holes and pour concrete equal to the volume specified by the configuration. Make the holes big enough to accommodate the concrete necessary to carry the load of the cantilevered gate.
- Confirm that the hole depth is below the frost line.
- Mount the carriages on the piers making sure 1) the orientation is correct; and 2) the carriages are level and plumb, and also level with each other as described in the installation instructions section "Set the Carriages".

Pier mount example



ACCESSORY SELECTION

CG-348 - J-Bolts set into newly poured concrete are the best method of anchoring the carriages to the pad.

Mini and Small Carriages (M) require 4 J-Bolts per carriage.

Large (P), Grande (G) & Extra Large (XL) Carriages require 6 J-Bolts per carriage **CG-05** - Foundation Plates make it easier to level and align the carriages, but are not required.

CGS-347 - End wheels serve three functions:

- covering the end of the track for UL325 compliance when the gate is automated,
- assisting the gate to seat effortlessly into the end cup receiver to stabilize the gate in the open and closed positions, and
- 3) keep dirt and debris out of the track for smoother operation.

cGS-346 -End cups are used to stabilize the gate in the fully open and closed positions AND to provide a positive gate stop to meet safety code for automated gates. Typically 2 are used per gate. For gates that stay closed most of the time only 1 is needed.

CG-15 - Heavy duty adjustable "L" bracket to mount end cups and receivers to the side of the fence

cG-30 - Slide gate receiver should be positioned near the top of the gate on the receiving post or column.
The size of this guide receiver is matched with the gate frame, and not the track model.

CG-30M - Fits 2" to 3" frames CG-30P - Fits 3%" to 4½" frames CG-30G - Fits 4" to 6" frames

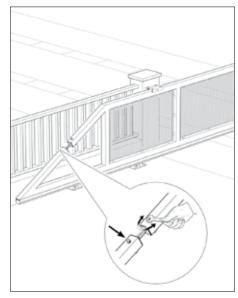
CGI-40-2IN - The tension is used for minor adjustment of gate sag and for vertical alignment in the closed position

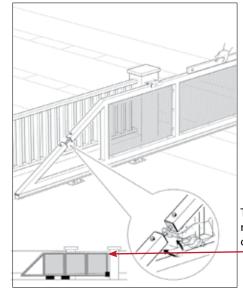
The tension bar is machined from stainless steel and fits 2" square tubing and 2-3/8" round pipe. The tension bar's turnbuckle action allows you to raise and lower the nose of the gate easily by turning the tension bar on the installed gate.

The tension bar is recommended for all cantilever gates: bottom track, top track, and those using gate rollers. For double gates it simplifies aligning the tops of the gates where they meet in the center.

post or column.

For long gates where gate sag becomes exaggerated it provides an easy method to compensate for the sag. For all gates the tension bar gives the gate adjustability for sag and alignment over the life span of the gate.







The top corner of the gate will rise and fall as.tension is adjusted on the tension bar.

GATE TOP GUIDE SELECTION

Guide assembly choice primarily depends on how the top of the gate is built. For over the top guides, a flat, even surface is necessary for the rollers to run on. For gates built without a flat top, side rollers or monorail guides are necessary.

Typically, only one top guide assembly is needed, but for gates with 26 ft or larger openings or for privacy gates with significant infill, we recommend two top guides spaced apart approximately by the same distance of the carriages.

The monorail guide with 2 guide rollers is recommended for ice and snow conditions. This gives a fully covered track and a very small area for the gate to freeze to the guide.

Top Guides (over the top style)

- Require smooth surface on both sides of the gate
- Flat top gates
- Wood privacy gates



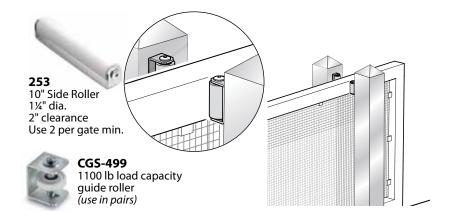
255-220-C For up to 2¾" frame



256-300 For up to 4½" frames

Side Rollers

- Guide post is required on both sides of the gate
- Requires smooth surface on both sides
- Arched top gates (match the arch height)
- Picket top gates
- Security gates with razor or barbed wire
- Wood privacy gates
- Face mounted picket gates



Monorail Guide with roller

- Arched top gates
- Picket top gates
- Chain Link Gates
- Wood Picket gates
- Face mounted picket gates
- Security gates with razor or barbed wire
- · Aesthetic/design to hide guide assembly



CG-254Galvanized 1½" U-Channel
Use guide rollers CG-252 or 258-30

RG-387

Galvanized 1¼" U-Channel Use guide rollers 258-30

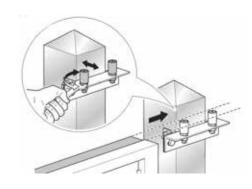
CG-237

Aluminum 1½" U-Channel Use guide rollers 258-30





1¼" dia.





GATE SAFETY CODE CONSIDERATIONS

Manual gates do not require specific accessories or design considerations to meet code. But automated gates can cause serious injury or death. There are two sets of safety codes to guide installers and manufacturers in delivering safe gates to the marketplace.

Make sure your gate system is installed and maintained according to the manufacturer's installation instructions. Make sure your installer adheres to UL325 and ASTM F2200 standards.

- **DO** Operate your gate system only when all necessary entrapment protection devices are connected and working properly. Examples of these devices include:
 - Sensing edges
 - Photoelectric sensors (e.g. photo eyes)

Follow ASTM F2200 standard for automated gates. Where applicable, these include the following:

- Covers for all exposed weight bearing rollers and pinch points that exist less than 8 feet (2.5 m) above grade.
- Fallover protection to prevent the gate from falling when gate is detached from supporting hardware.
- Physical gate stops to avoid over-travel in both directions.
- Proper adjustment of the inherent sensing system.
- No protrusions along the bottom of the gate.
- Protective screen mesh to guard openings from the gate's base support to a minimum height of 6 feet (1.8 m) above the ground. This must prevent a sphere of 2¼ inches (57 mm) from passing under or through any opening in the gate or adjacent fence (the portion covered in the gate's open position.) Refer to the illustrations.

PRECAUTIONS FOR GATE SYSTEMS

ENTRAPMENT ZONE HAZARDS

Body parts may become entrapped between a gate and a stationary object when the gate begins to move, which can result in serious injury or death. Make sure pedestrians stay clear of the gate path and areas where gate motion is close to stationary objects.

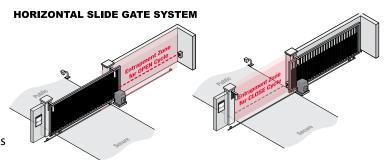
PINCH POINT HAZARDS

- In open roller slide gates, severe injury can occur when hands and fingers get caught in the slide gate rollers. Feet can be injured between the bottom of the gate and bottom rollers.
 Make sure roller guards are installed to cover these pinch points.
- A swing gate's opening mechanism may have arms that can overlap with a scissoring effect, which can result in serious injury. Make sure pedestrians stay clear of the gate path and the opening mechanism, especially when the gate is in motion.

CRUSH HAZARDS

In picket gates, body parts positioned between the bars can become seriously mutilated when the gate begins to move, which can result in serious injury or death.

Make sure openings are covered or screened and gaps are filled to prevent persons from reaching through, and/or passing through, the gate.



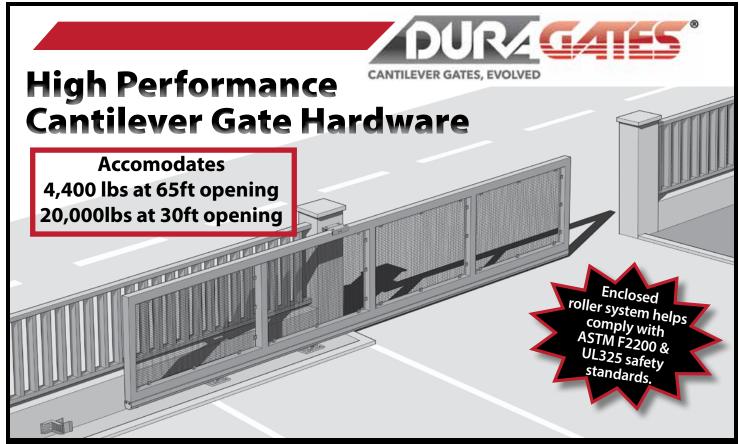
MORE INFORMATION Websites:

DASMA: www.dasma.com

Underwriters Laboratories: www.ul.com

Automated Vehicular Gate Standards,

ASTM F2200: www.astm.org



Installation Instructions

TABLE OF CONTENTS

PREPARATION OF THE FOUNDATION10
J-BOLT / TIE ROD INSTALLATION11
SET THE CARRIAGES12
ATTACHING THE GATE TO THE TRACK13
INSTALL THE END WHEELS14
INSTALL THE MOUNTING BRACKETS14
INSTALL BOTTOM END CUPS TO THE MOUNTING BRACKET14
INSTALL THE GATE RECEIVER14
INSTALL THE TOP GATE GUIDE15



STEP 1 - PREPARATION OF THE FOUNDATION

Prepare the foundation site and pour as per the measurements received in your configuration sheet. Best practices call for the concrete depth to be below the frost line, so we recommend digging the foundation deep enough to extend below the frost line at the installation site.

Call
908-757-2323
or request a quote at
Duragates.com to
get your gate
configured
using our online
calculator.

NOTE: We recommend using reinforced concrete with specified gravity of a minimum of 1.56 lbs/cu ft.

Post/Pillar WEIGHT OF GATE distributed uniformly The base edge of the carriage should start 9" from the driveway opening. The edge of the foundation should start 4" from the driveway opening.

Concrete Pad Considerations

The online configurator calculates the concrete pad dimensions based on the gate opening size (L) and gate weight (P). The pad acts as the counterbalance weight for the gate, allowing for shorter tail sections.

NOTES:

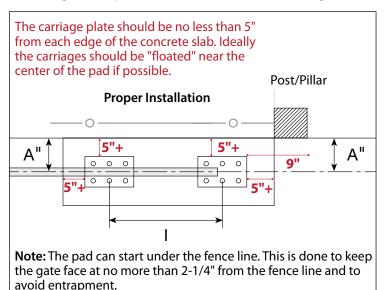
- The pad length is nearly the size of the gate's tail length (ca. 95%).
- The pad dimensions (FAxLAxPA) do not take the frost line into consideration and the pad must be deeper than the frost line to prevent frost heaves that may displace the pad.
- The pad dimensions determine the volume of concrete required to provide a counterweight. Any alteration to the length, width or depth of the pad must NOT reduce the volume.
- The pad will often extend under the fence line. This will allow the gate to be placed close enough to the fence line to meet the UL325 entrapment code spacing of <2-1/4". Distance "A" in the figure on page 95 should be chosen so the edge of the fence is less than 2-1/4" from the edge of the end post or column at the opening.
- The leading edge of the foundation pad should start 4" from the driveway opening

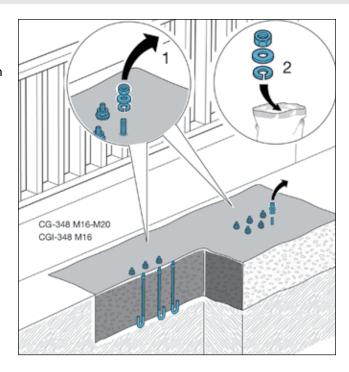


FOUNDATION

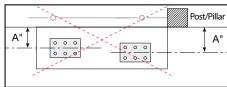
STEP 2 - J-BOLT / TIE ROD INSTALLATION

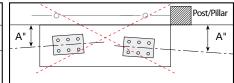
Once the foundation is prepared, fill the hole with concrete and level to top. Sink or hang the J-Bolts so they are centered "end to end" on the pad, with the leading edge of the front carriage a minimum of 5" from the edge of the concrete. Be sure the center-to-center distance between the carriages is as specified as dimension (I) on the configuration sheet.





Wrong Installations

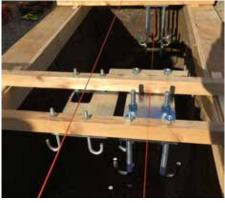




Conduit to run electrical wiring for gate opener

Rebar used to strengthen the concrete pad

Gate operator foundation plate



Line up the bolts. Use a string line, template, or other means to ensure bolts are correctly spaced apart per the (I) dimension from the configuration. Line up with the other carriage and run parallel to the gate opening.

Run a string line or laser across the opening to ensure the gate lands at the right point when closed.

Note: The top of the bolt/tie rod should stick out of the cement at least 2". When using a temporary template to set the J-bolts the bottom nut may be sacrificed into the concrete.

STEP 3 - SET THE CARRIAGES

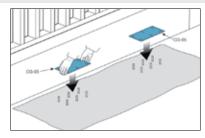
Once the foundation is well hardened, loosen the nuts off the J-Bolts, clean and level the area where the foundation plates or carriages will rest to prepare for the installation of the carriages.

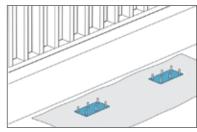
Place the Foundation plates over the J-bolts.

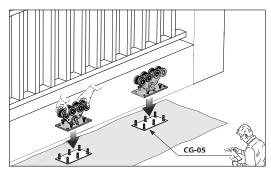
Make sure the orientation of the carriage is correct.

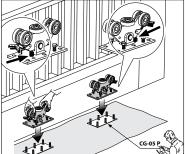
Use the flat and lock washers to secure the carriage to the

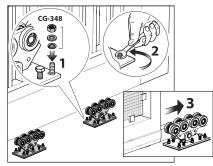
bolts. Align and level the carriages, then begin tightening the nuts, constantly checking that the carriages are level. If they are not level, then adjust the carriage to level, and also level with each other.

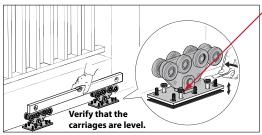




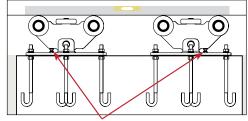








adjustment jackbolts are available on the "P" & "G" carriage models. They are not available on the "M" carriages.



Note: When mounting the CGA carriages, make sure the regulating screws are facing towards the outside as shown in the picture.

If not using foundation plates

Option 1: Carriages will sit on the bottom nuts on the J-bolts to allow plumb/level adjustments using the J-bolts as jack bolts **Option 2:** Carriages can be placed directly on the foundation. Plumb/level adjustments must be done by shimming the carriages.

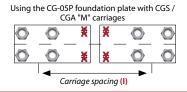
NOTES:

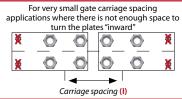
- For Piccolo carriages, the regulating screws should face "outward" and not be installed between the carriages, and for the aluminum P carriage, the sweep brush should also be on the "outside".

Using the CG-05P Foundation Plates with "M" Carriages

The foundation plate has 6 holes, but the "M" carriages only have 4 mounting holes that align with the middle holes and one side of the outside holes as shown.

The diagrams to the right show how to use the CG-05P foundation plates with the CGS-250.8M & CGA-350.5M carriages.





- For carriage installations using the J-bolt as the jack bolt adjustment method, it is best to back fill the space under the carriage with grout to keep the carriage firmly secure over time. This is especially true for heavier gates.

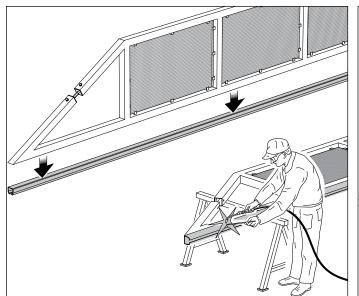
Grout and fill the space under the carriage.

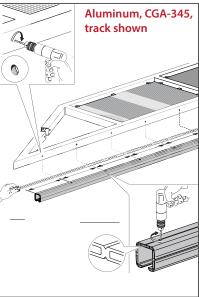


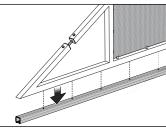
The nut below the carriage can also be used for adjustment.

STEP 4 - ATTACHING THE GATE TO THE TRACK

Attach your gate to the top of the track by welding or mechanically fastening.









When the gate frame material and the track material are different, you have a few different options. For example, a wood gate on a steel track, a PVC gate on an aluminum track, or an aluminum gate on a steel track.

- 1) Bolt/screw on the gate frame to the track drill up and thru the top of the cantilever track and bolt the frame to the track. Caution it's best to use counter sinking bolts/screws so that nothing protrudes into the track cavity to obstruct the carriage wheels. There is a gap in the middle of the wheels on the carriage where a hex head bolt will fit between and not obstruct gate travel, but you must be very careful in size selection and placement.
- 2) Weld small tabs with bolt holes along both edges of the track (like alligator skin). Bolt thru the gate frame and tabs.
- 3) Use a length of flat bar or angle along the bottom length on both sides of the gate frame. Weld this flat bar or angle to the top of the cantilever track and bolt through the gate.

Welding the gate to the track

We recommend stitch welding both sides down the length of the track and gate frame as shown below.

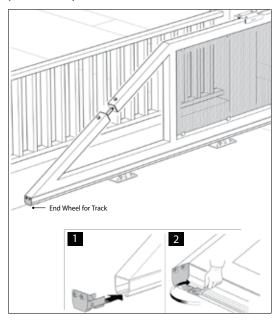
Long gate over 25' requires 2 upper guides

In gate below 2 of item 256-220 are used. See step 9.



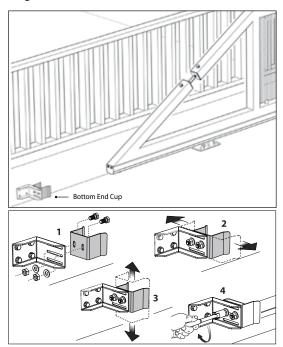
STEP 5 - INSTALL THE END WHEELS

Install the end wheels into both ends of the track. These are recommended to help keep dirt and debris from the inside of the track and for UL-325 compliance. By themselves, they are not a positive stop.



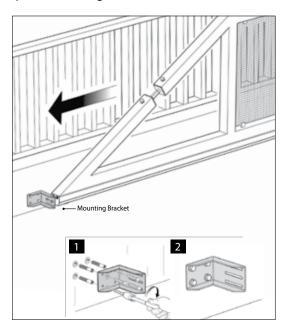
STEP 7 - INSTALL BOTTOM END CUPS TO THE MOUNTING BRACKET

Install the bottom end cups to the adjustable mounting bracket. The bottom end cups provide a positive stop for the gate and eliminate vibration in the gate, extending the life of the carriages.



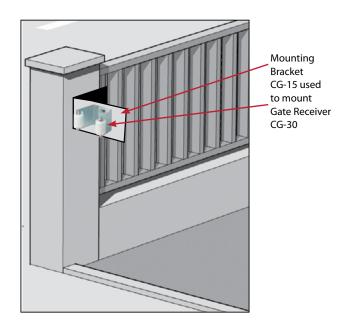
STEP 6 - INSTALL THE MOUNTING BRACKETS

The adjustable mounting brackets are used to hold the bottom end cup and also the gate receiver, CG-30 as shown in Step 8.



STEP 8 - INSTALL THE GATE RECEIVER

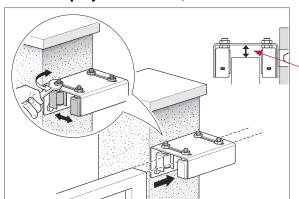
The gate receiver can be installed on the closed side of the gate to keep the gate steady at the top. Install the gate receiver to a mounting bracket.



STEP 9 - INSTALL THE TOP GATE GUIDE

The top gate guide is installed on the post near the carriages. The top gate guide keeps the gate vertical under wind loads, but does not support the gate load. For gates longer than 25 feet we recommend using 2 top guides. See gate photo on bottom of page 13.

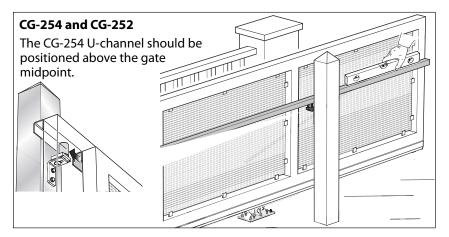
Over the top styles: 255-220-C, 256-220 or 256-300



See page 7 on choosing a top guide.

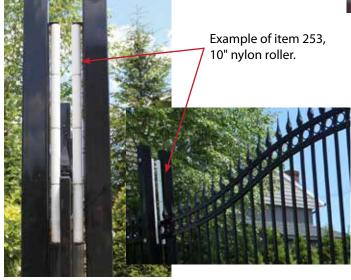
Top clearance dimension is approx 1/8".

If the gate has an arched or decorative top, then the U-channel would be used for a side mount, upper guide option. This style allows for a "hidden" guide and the rollers will not mark the surface of the gate over time. A single roller and a double roller option are available. The U-Channel should be installed at least half way up from the bottom of the gate and above the center of mass of the gate.



CG-252

If the U-channel is not an option, then the 10" nylon rollers could be used to support the gate. A post would have to be set on both sides of the gate and a minimum of 2 rollers are needed on each side.



GATE TRUSSING FOR SELF-SUPPORTING GATES

All cantilever gates must be manufactured and trussed in a way that they are self-supporting. The Duragates track is built to support the weight and balance of the gate but will not support gates that are not trussed to prevent sagging or curling, or are not in and of themselves self-supporting.



A simple diagonal in the tail section will work for many "smaller" gates.



Diagonal trussing in the vertical dimension is needed for all gates. Diagonal bracing in each section should be used for large gates with a 30 ft or greater opening.



Long gates also need lateral trussing to resist wind and the tendency to "lean over" to one side. Often referred to as a "strong arm" support, this is a 1 ft wide "panel" attached perpendicular to the gate, running the full length of the gate. This is especially important for privacy style gates, or any gate with significant infill to catch the wind. .



Example of a wooden gate with aluminum frame, well trussed and supported.



USING THE BOTTOM TRACK AS PART OF THE GATE FRAME

The Duragates track can be used as the bottom horizontal rail of the gate. This allows for some material savings and a sleeker look as the track becomes part of the gate itself.

This works well for light gates with a high percentage of air flow through the gate. Both aluminum or steel gates that are picket style, use chain link or wire mesh as infill are great applications for using the track as the bottom rail.

The exceptions to consider are:

- In high wind environments when excessive side load is expected
- For heavy commercial gates
- On gates with openings longer than 28 feet wide

Some fabricators prefer not to use the track as the frame because it is usually wider than the rest of the gate frame, so laying it out on the table takes more time.

WELDING BOTTOM TRACK TOGETHER FOR LONGER GATES

When connecting two or more pieces of track, butt welding the ends together works well when the gate has a bottom horizontal rail as part of the gate frame. When the bottom track itself is part of the gate frame, a 45-degree splice is better in order to distribute the stress points along the width of the track.

It is always best to splice the track in a position where the gate does not stop fully open or close with a carriage directly over the splice. When the splice is directly over a carriage you should use the 45-degree splice.

For steel, bevel the outside and weld the outside perimeter of the splice. It's best not to weld inside of the track because it creates an exaggerated bump in the travel and is quite difficult to grind and clean up. For aluminum, the track is a hollow complex profile, so there is not enough material to bevel the track before welding.

EXTENDING THE TAIL SECTION OF THE GATE

For a given weight and size of opening, our online gate configurator suggests a minimum length of tail to carry the load. (typically, 30% to 40% of the width of the opening). At times it is desirable to make the tail section longer for aesthetics or to reduce the load on the carriages.

There are three critical dimensions to consider when extending the length:

- The total gate length, (LT)
- The carriage interaxis spacing, (I)
- The foundation length, (FA)

When you increase the overall gate length (LT) to extend the length of the tail, you need to increase the other two dimensions by the same amount to make sure you do not create an overload situation when the gate is fully open.

Call
908-757-2323
or request a quote at
Duragates.com to
get your gate
configured
using our online
calculator.



MAINTENANCE SCHEDULE

The Duragates system is very low maintenance. The bearings on the wheels are maintenance free sealed bearings and do not need to be lubricated over their lifespan.

No lubricant should be introduced into the track, wheels, carriages, or in the bottom load bearing track assembly. Lubricants and oil based products will attract and build up dust, dirt and other materials that will significantly degrade the performance of the hardware, and shorten it's lifespan.

Maintenance Frequency

The maintenance frequency depends on the application and number of gate cycles.

General Recommendations

Private home or business Every 2 years

Multi-family < 4 units Every 2 years

Warehouse Every 1 year

Multi-family > 4 units Every 6 months

If the gate is automated, please follow the maintenance schedule for the operator as per the manufacturers recommendations.

Required Maintenance

Carriage/Track

Check the functionality and integrity of the carriages.

Clean the lower area of contact between the wheels and the track.

Confirm that the mounting bolts securing the carriages to the foundation are tight.

Confirm that the fasteners on the End Wheel are secure.

Top Guide Assembly

Check the rollers for wear.

Confirm that the fasteners on the rollers are secure.

Check the condition of the roller covers if applicable.

Gate Stops

Confirm that the fasteners on the End Cups and brackets are secure.

Confirm that the fasteners on the Gate Receiver and bracket are secure.

Warranty

All products have a 2 year warranty. This warranty is limited to the repair or replacement of product parts that FRATELLI COMUNELLO SPA acknowledges as defective. The warranty does not include the costs necessary for repairing or replacing the material (e.g. labor costs, rental of equipment etc.).

