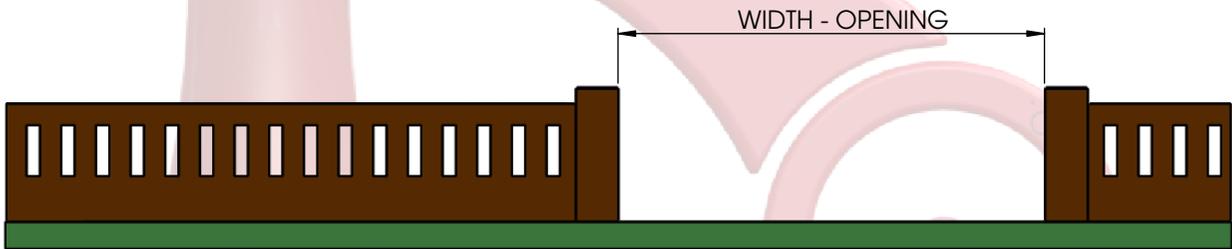
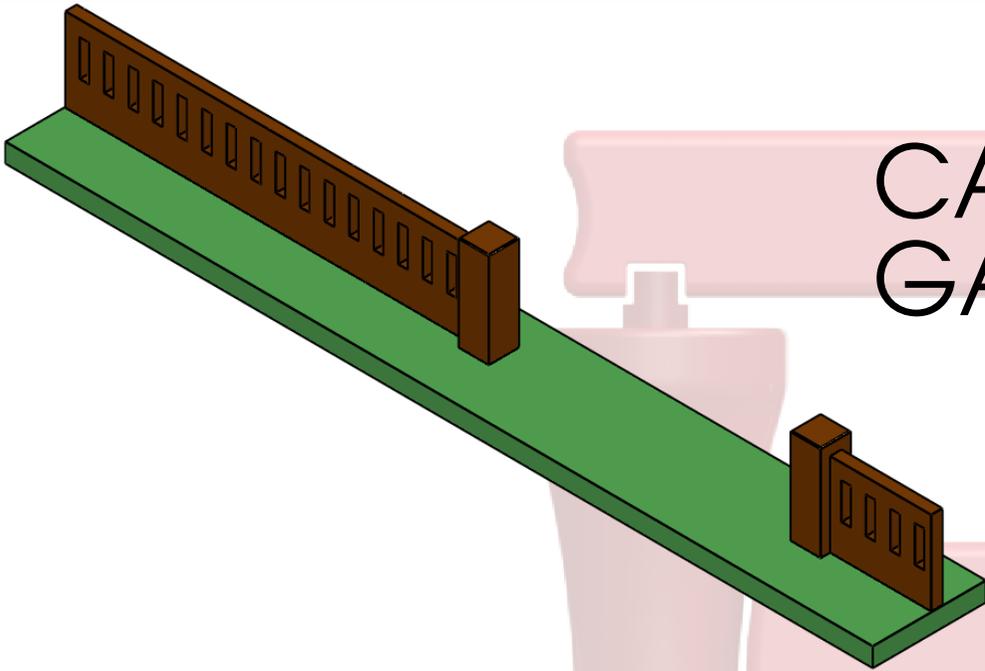


WEIGHT: kg

CANTILEVER INDUSTRIAL GATE



CUSTOMER APPROVAL:

COMPANY:

SALES PERSON:

NAME:

SIGN:

DATE:

MATERIAL:

THICKNESS: mm

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REVISION:

FINISH:

TITLE:

RICHMOND WHEEL & CASTOR CO.

DWG NO:

How to Industrial GATE

A3

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APPVD	SY	SY	22/01/16
MFG	TOM	TM	22/01/16
Q.A	BARRY	BN	22/01/16

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DIMENSIONS ARE IN MILLIMETERS
TOLERANCES TO 0.25MM

DEBUR AND
BREAK SHARP
EDGES



Contilevever gate introduction

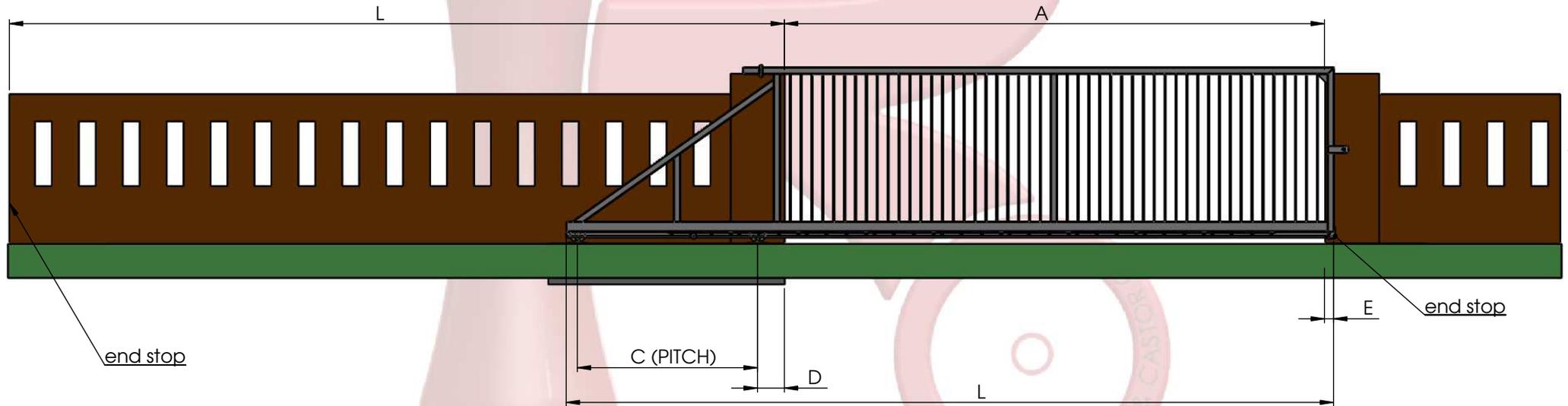
CONSIDERATIONS:

The nature of a cantilever gate is to "suspend" over the opening their for you should design and costruct your gate with as many cross-diagonal braces as possible to stiffen the overall gate to prevent sag.

Gate design and strength then becomes a trade off between:

1. Aesthetics
2. Strength
3. Reducing weigth

If your calculations produce a favourable result you may be able to relax a little on your gate design but on the other hand if your calculations are showing that you are close to the limits you need to think seriously about looking at another series of cantilever hardware or reducing weight but at the same time ensuring you have good cross support.



TIPS TO REMBER;

Weigth of the gate to be kept to a minium.

"D" Keep the distance to the first trolley and the opening to a minium.

"C" (PITCH) Increasing centure distance between the first and second trolley will improve calculation. Rough rule is approximatly 1/3 of gate opening.

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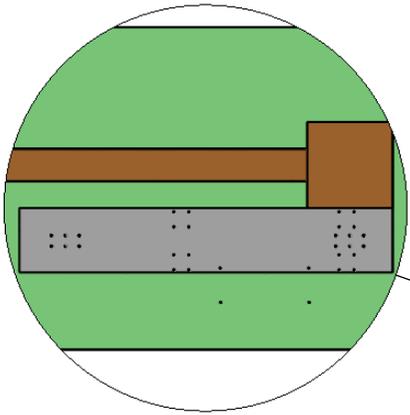
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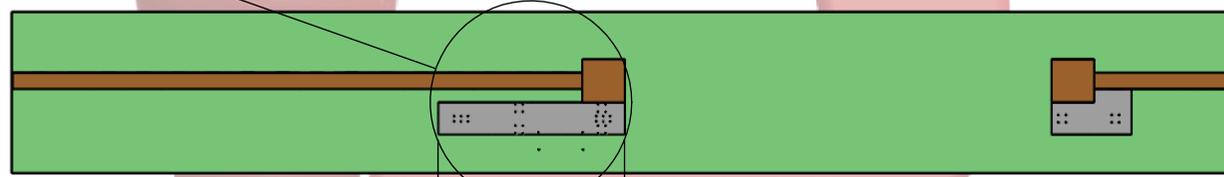
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DWG NO. How to Industrial GATE		A3
STATE	Design/ Drafting	SHEET 2 OF 10

WEIGHT:

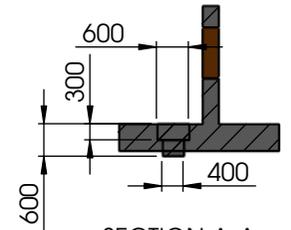
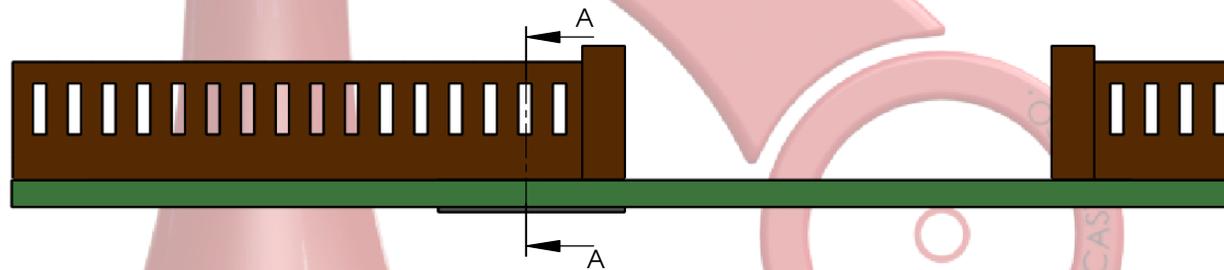
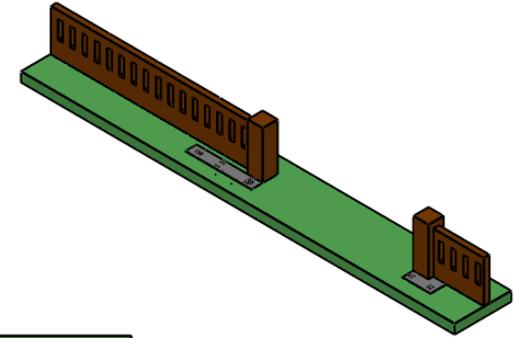
Concrete footing construction



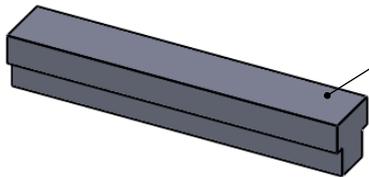
DETAIL B
SCALE 1 : 50



3500



SECTION A-A
FOOTING DETAIL



CONCRETE FOOTING

Cubic Millimeters: 1050000000.0mm³
 Cubic Meters: 1.05m³
 Concrete Mass: 2,526.86kg

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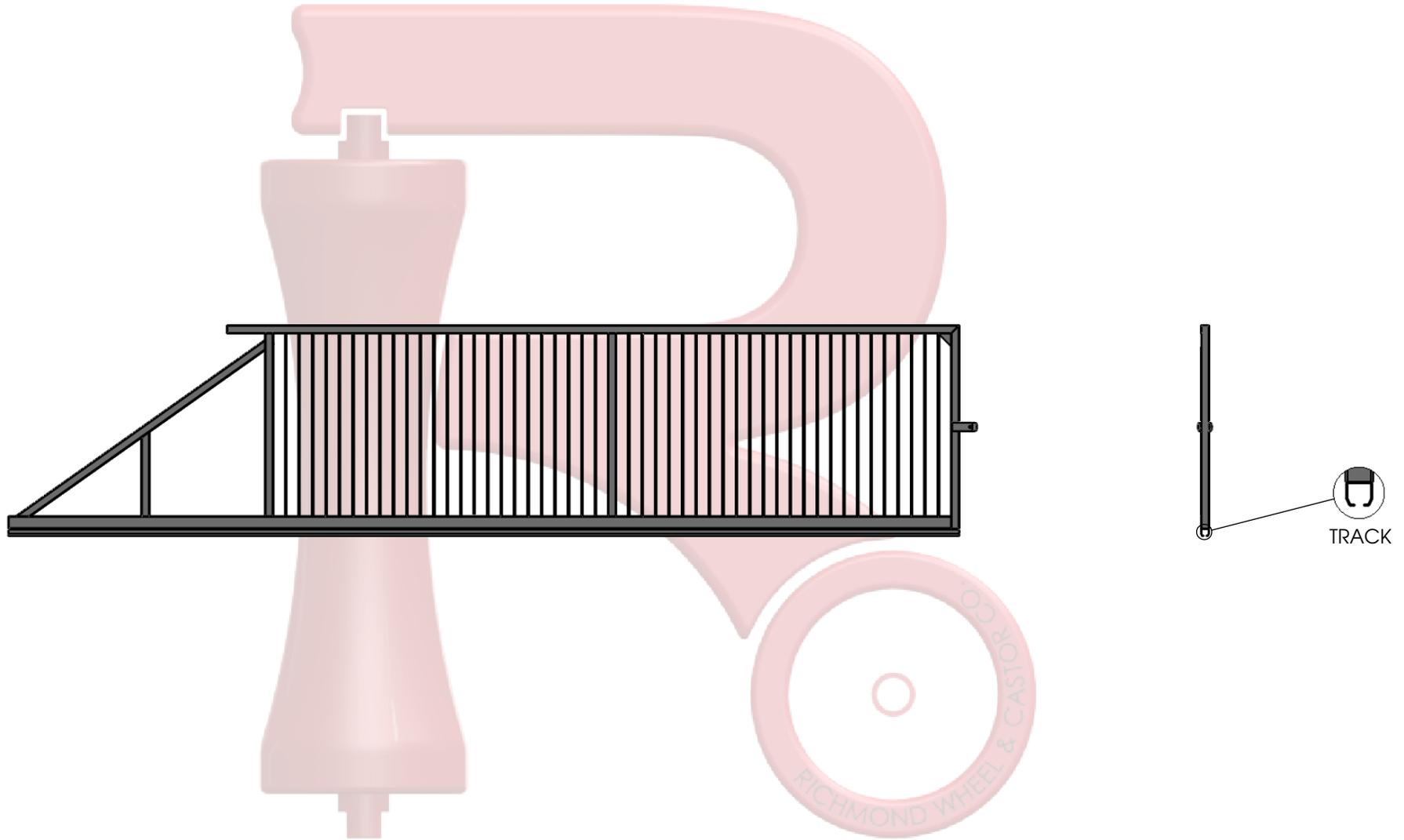
DEBUR AND
 BREAK SHARP
 EDGES



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WEIGHT:

Typical gate construction



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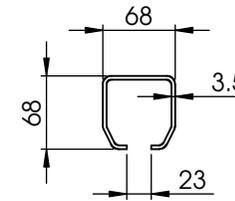
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APPVD	SY	SY	22/01/16
MFG	TOM	TM	22/01/16
Q.A	BARRY	BN	22/01/16
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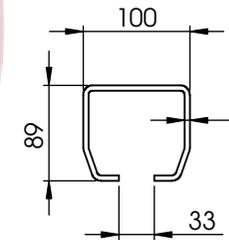
WEIGHT: 636.94kg

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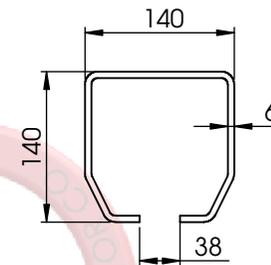
SHEET 4 OF 10



GTR023
Max gate opening: 5m
Max gate weight: 600 kg
Length: 5800mm



GTR024
Max gate opening: 7m
Max gate weight: 1000 kg
Length: 5800mm



GTR025
Max gate opening: 14m
Max gate weight: 2000kg
Length: 5800mm

Cantilever galvanised gate channel: C.G.C Sections
supplied in 5.8m lengths

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Q.A	BARRY	BN	22/01/16
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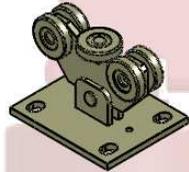
WEIGHT: 21.30

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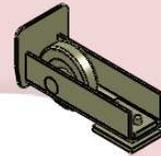
SHEET 5 OF 10

Cantilever parts match to channel size

GTR023
 Max gate opening: 5m
 Max gate weight: 600 kg
 Length: 5800mm



GTR026
 CANTILEVER GATE WHEEL (5 WHEELS)

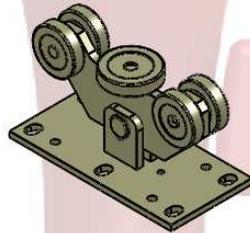


GTR029
 GUIDE WHEEL

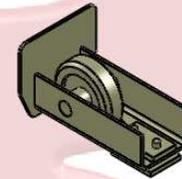


GTR034
 CHANNEL END CAP

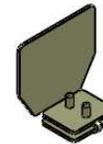
GTR024
 Max gate opening: 7m
 Max gate weight: 1000 kg
 Length: 5800mm



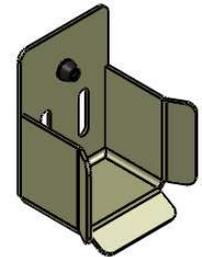
GTR027
 CANTILEVER GATE WHEEL (5 WHEELS)



GTR030
 GUIDE WHEEL

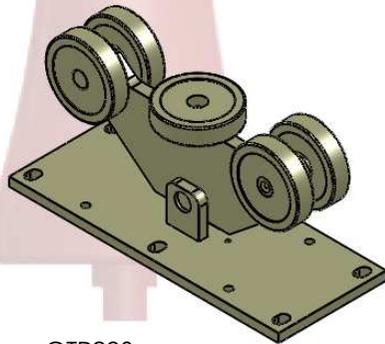


GTR035
 CHANNEL END CAP

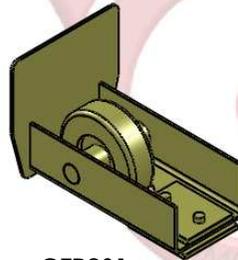


GTR032
 END CATCH

GTR025
 Max gate opening: 14m
 Max gate weight: 2000kg
 Length: 5800mm



GTR028
 CANTILEVER GATE WHEEL (5 WHEELS)



GTR031
 GUIDE WHEEL



GTR036
 CHANNEL END CAP

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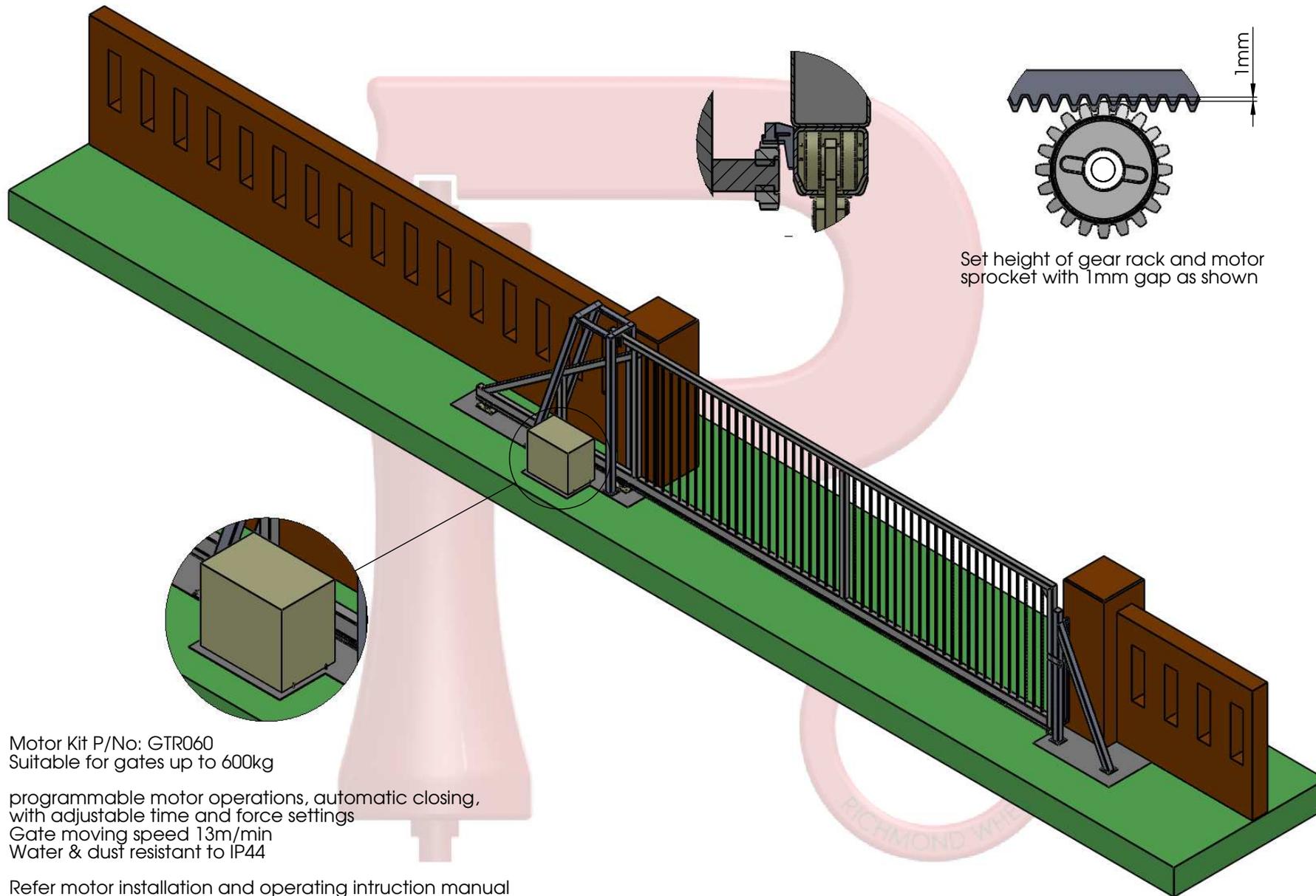
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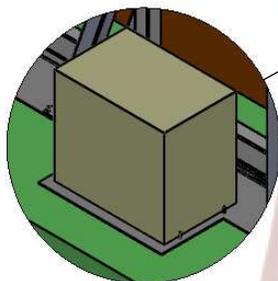
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WEIGHT: 21.30

SHEET 6 OF 10



Set height of gear rack and motor sprocket with 1mm gap as shown



Motor Kit P/No: GTR060
Suitable for gates up to 600kg

programmable motor operations, automatic closing,
with adjustable time and force settings
Gate moving speed 13m/min
& dust resistant to IP44

Refer motor installation and operating instruction manual

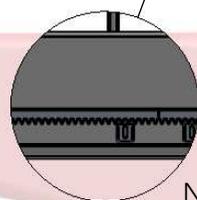
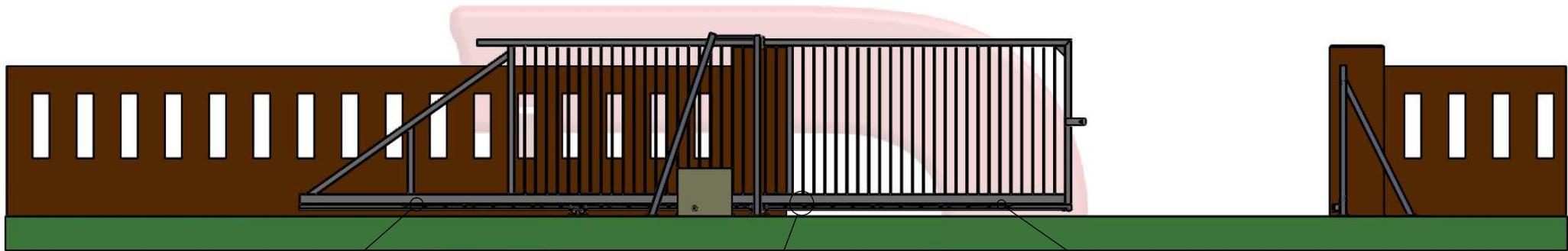
Refer Richmond Castors for gates over 600kg

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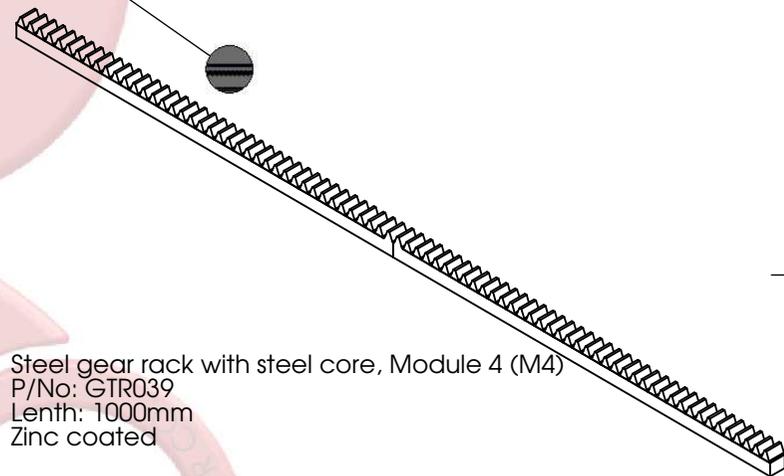
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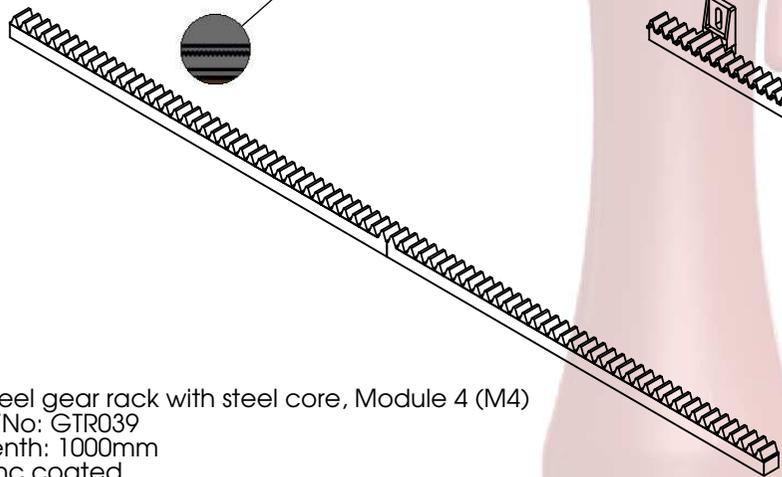
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DWG NO: How to Industrial GATE		A3



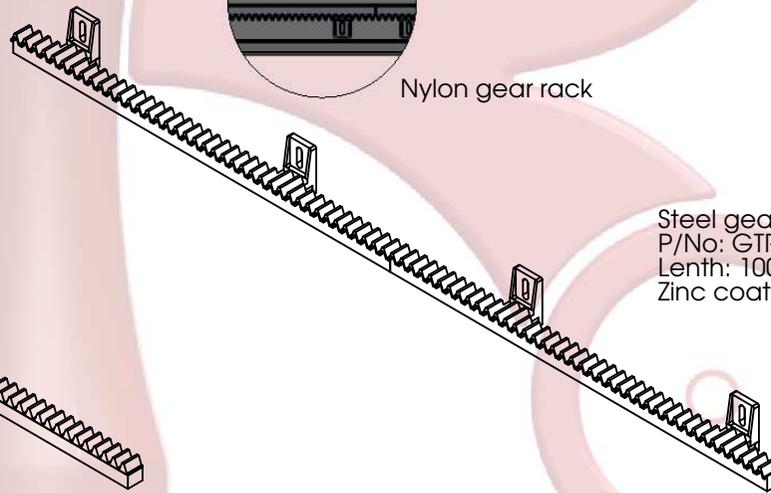
Nylon gear rack



Steel gear rack with steel core, Module 4 (M4)
P/No: GTR039
Lenth: 1000mm
Zinc coated



Steel gear rack with steel core, Module 4 (M4)
P/No: GTR039
Lenth: 1000mm
Zinc coated



Nylon gear rack with steel core, Module 4 (M4)
P/No: GTR020
Lenth: 1000mm

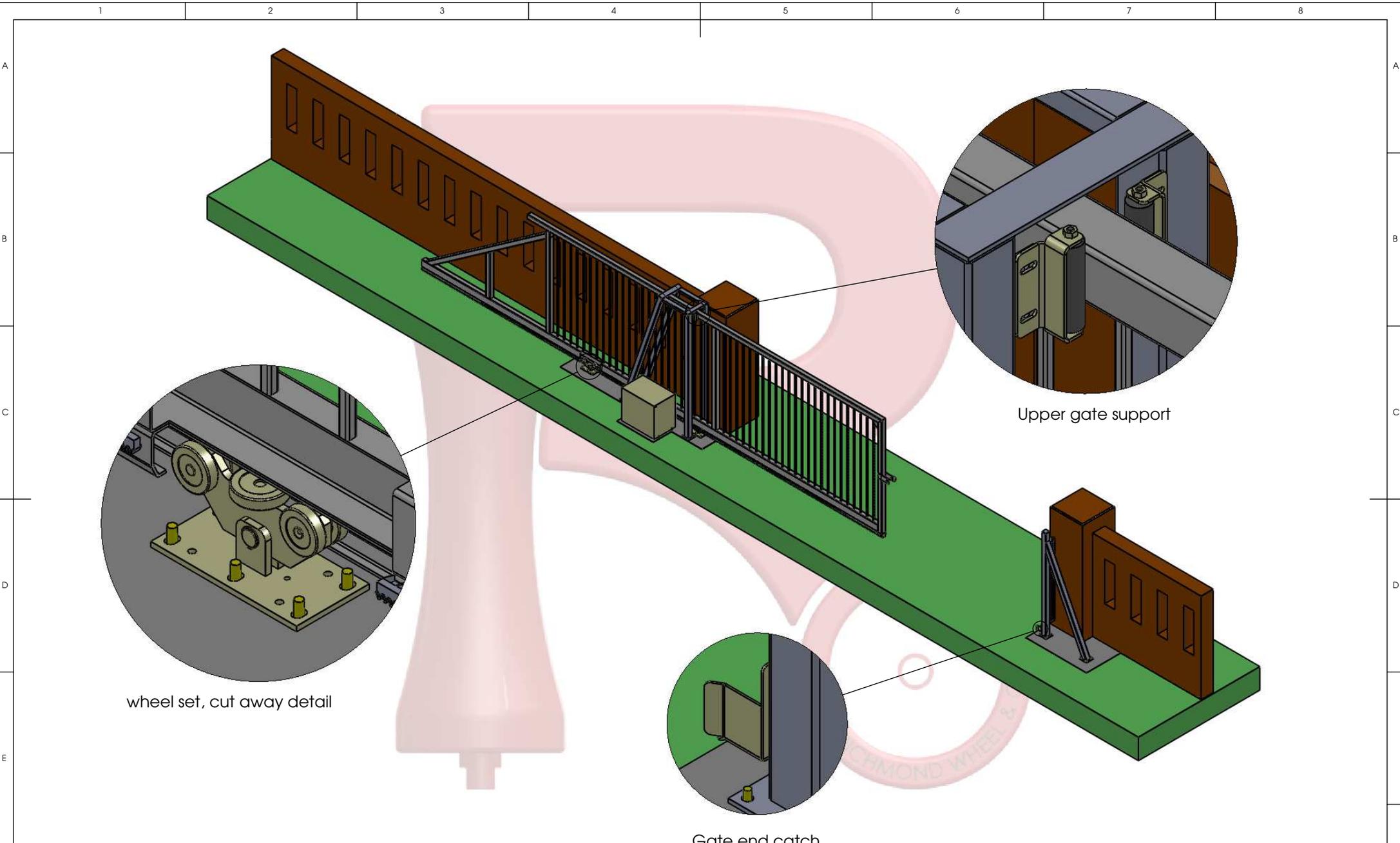
Tip:
Steel gear rack to be used at either ends to assit with start up and stoping of the gate.

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wheel set, cut away detail

Upper gate support

Gate end catch

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