



Xiamen Goomax Energy Technology Co., Ltd.

since 1995

Contents



**GOOMAX
Brief**



**Production
Lines**



**Project
References**

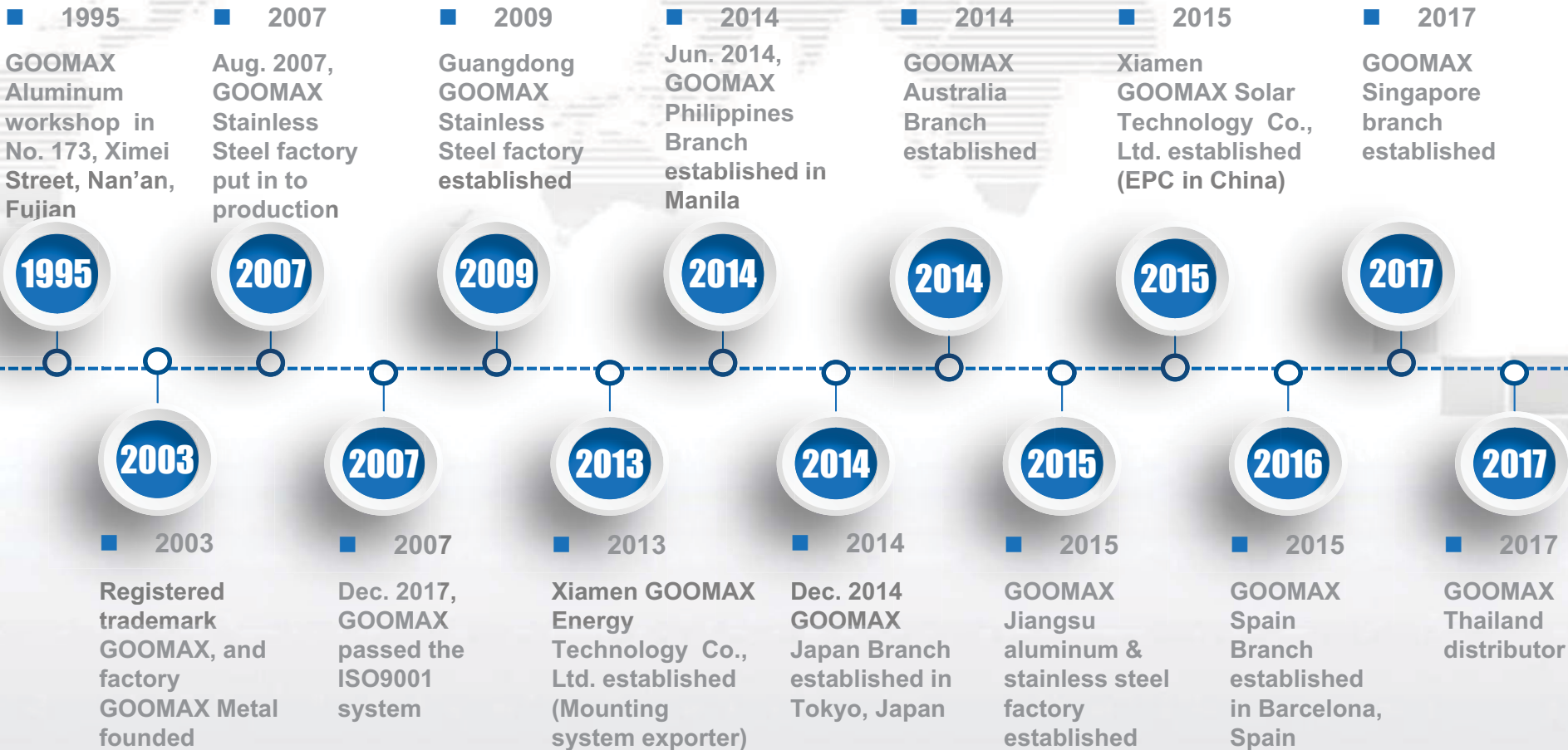
since 1995

01



GOOMAX Brief

GOOMAX History



About GOOMAX



Production Base in GOOMAX Industrial Park

About GOOMAX



About GOOMAX



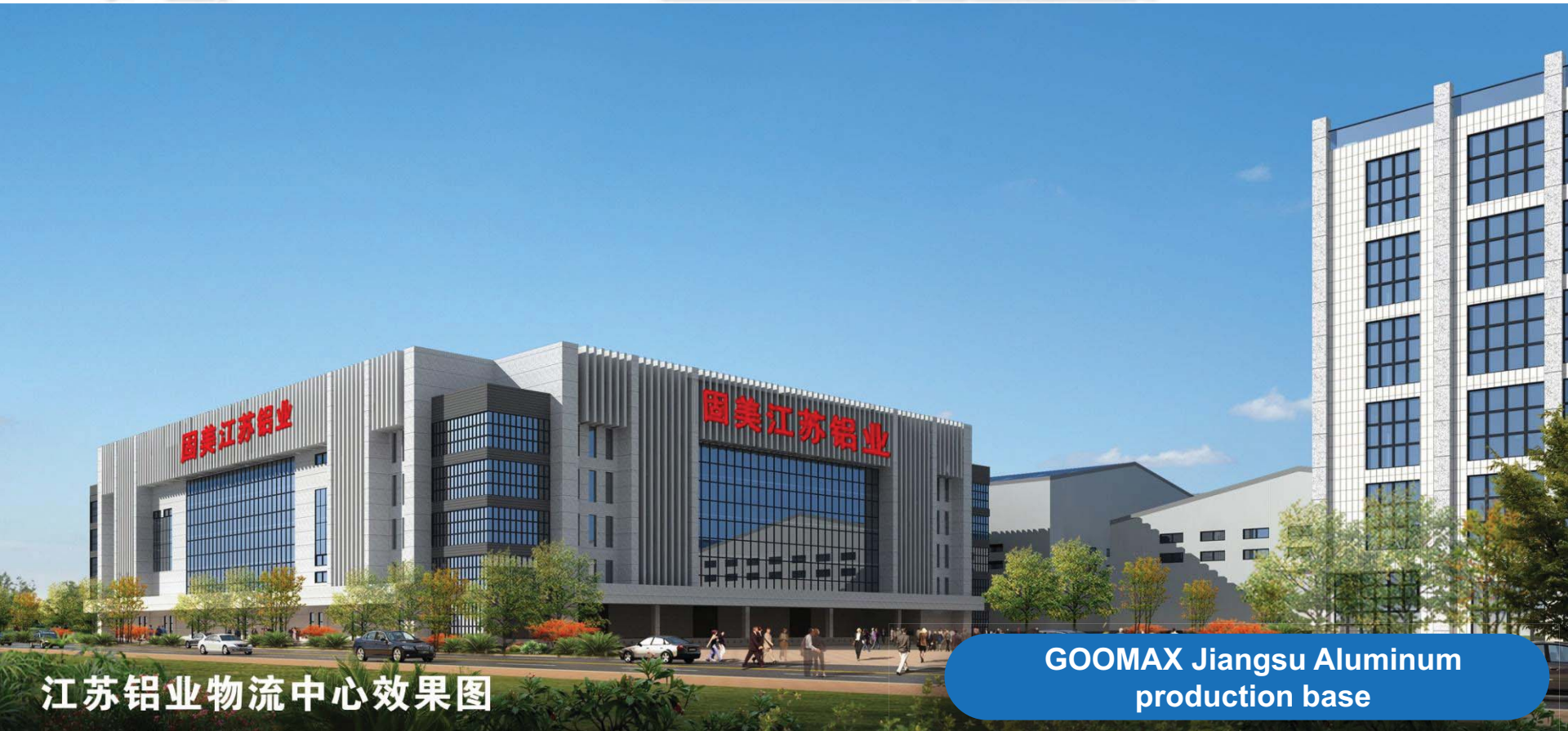
About GOOMAX



**GOOMAX Jiangsu Aluminum
production base**



**GOOMAX Jiangsu Stainless Steel
production base**



江苏铝业物流中心效果图

GOOMAX Jiangsu Aluminum production base

About GOOMAX



江苏不锈钢生产基地效果图

**GOOMAX Jiangsu Stainless Steel
production base**

About GOOMAX



About GOOMAX

- **GOOMAX Group founded in 1995**
- **Factory area: 600,000 square meters**
- **Staff: Over 1,500**
- **4 Production bases:**
 - **Ximei Sub-district, Nan'an City, Fujian Province**
 - **Dongtian Town; Nan'an City, Fujian Province**
 - **Shishan Town, Nanhai, Guangdong Province**
 - **Economic and Technological Development Zone, Huai'an, Jiangsu**
- **Workshops: Molding plant, Casting furnace, Extrusion lines, Aging ovens, Spraying lines, Anodizing workshops, Electrophoresis workshops, etc.**
- **Annual Capacity of PV Mounting: 1.5GW**

About GOOMAX

- **Certifications:**
 - **ISO9001:2008 , ISO14001**
 - **SGS**
 - **AS/NZS1170**
 - **JIS**
 - **TUV**
 - **Golden Sun**
- **Total Capacity installed: 6GW**
- **Achievements in past 3 years :**
 - **2015: 1.0GW**
 - **2016: 1.2GW**
 - **2017: 1.3GW**



02



Production Lines

Casting & Fusion Equipments



Extrusion Lines



Extrusion Lines

600TON



1000TON



1800TON



2500TON



Aging Furnace



Aging Furnace

Surface Treatment Equipments



**Anodizing
Workshop**



**Electrophoresis
Workshop**

Surface Treatment Equipments



Spray Lines



Band Blaster

Surface Treatment Equipments



**Wood Grain
Transfer Printing**

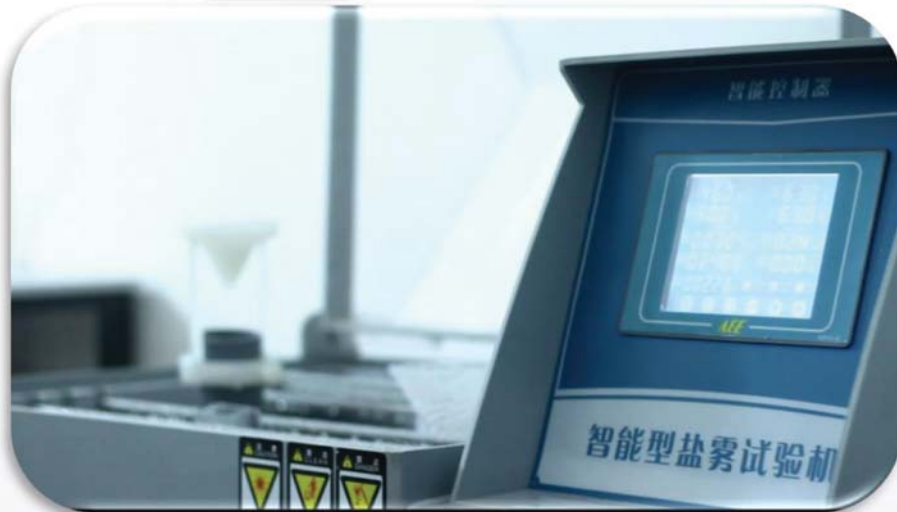


**Broken Bridge
Thermal Insulation**

R&D and Testing Devices



**Universal Testing
Machine**

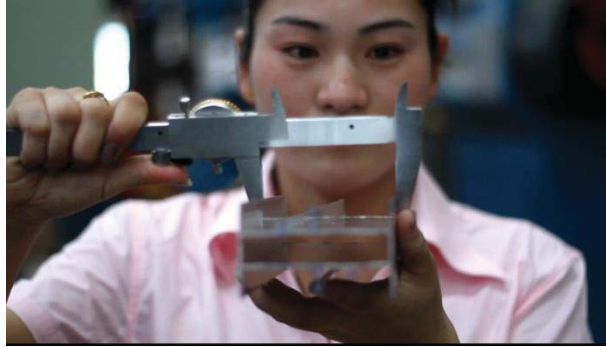


**Intelligent Salt
Spray Tester**

R&D and Testing Devices



**Coating Cupping
Testing Machine**



On-site Inspection



**Direct-reading
Spectrometer**

Swage Treatment Equipments



**Dust-removal
System**



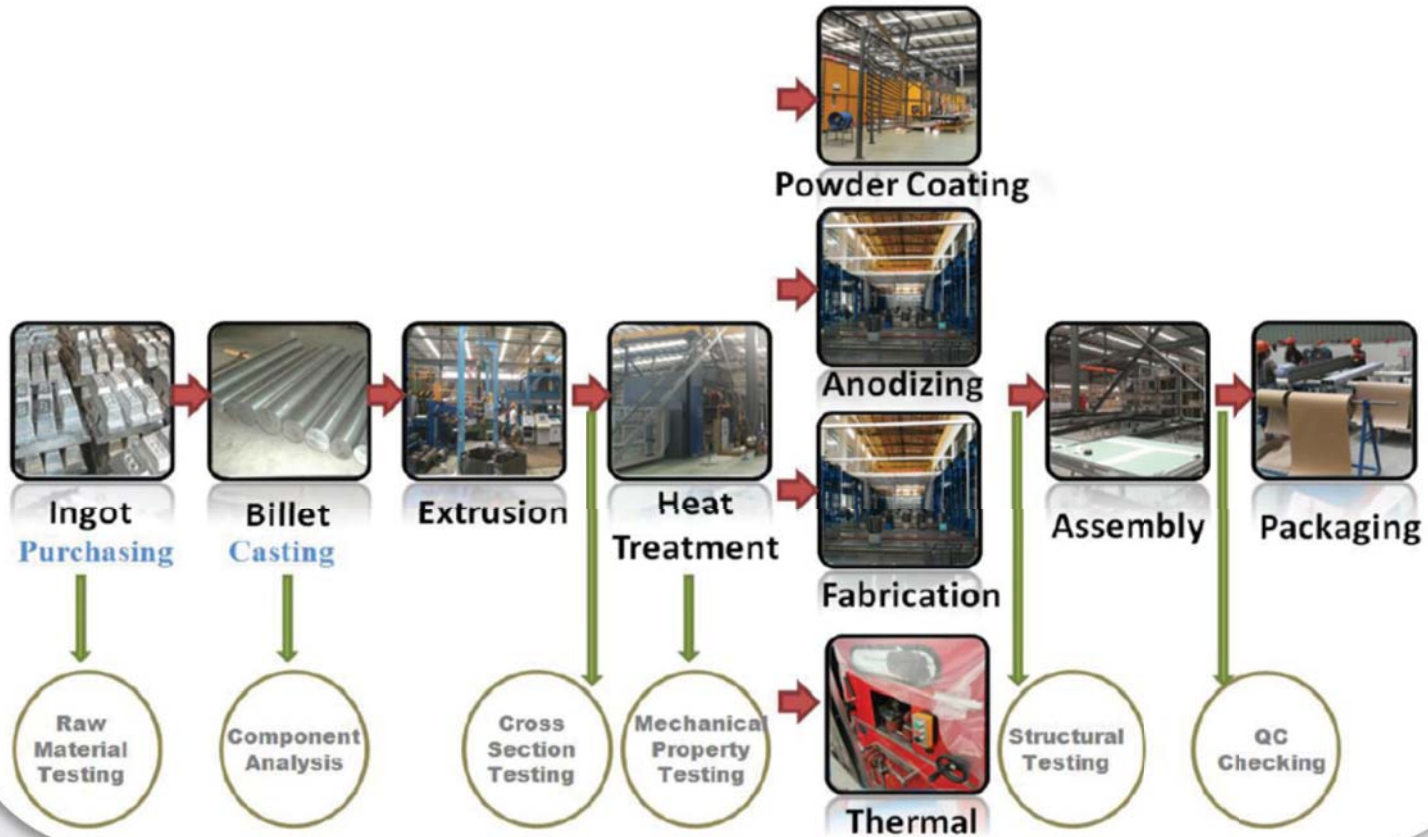
**Sewage Disposal
System**

Swage Treatment Equipments



Natural gas station
Daily supply capacity 30000m³

Process Flows





03



Project References

Project Installation



Ground mounting with ground screw foundation, Australia

Project Installation



37MW Ground mounting with U-steel rammings pile foundation, Australia

Project Installation



37MW Ground mounting with U-steel ramming pile foundation, Australia

Project Installation



Aluminum ground mounting with
concrete foundation, Iran

Project Achievements



57MW Ground Mount, Japan

Project Achievements



25MW Ground Mount, Japan

Project Achievements



25MW Ground Mount, Japan

Project Achievements



3.5MW Ground Mount, Japan

Project Achievements



7MW Ground Mount, Japan

Project Achievements



12MW Ground Mount, Japan



2.5MW Ground Mount, Japan

Projects Achievements



500KW Ground Mount, Japan



1.5MW Ground Mount, Japan

Project Achievements



4MW Ground Mount, Japan



250KWSolar Carport, Brazil

Project Achievements



500KW Alu Ground Mount, Iran

Project Achievements



Project Achievements



780KW Flat Rooftop, Nan'an, Fujian

Project Achievements



810KW Factory Metal Roof, Tong'an, Fujian

Project Achievements



350KW School Flat Roof, Nan'an, Fujian

Project Achievements



350KW Factory Metal Roof, Nan'an, Fujian



250KW Office Concrete Roof, Tong'an

Project Achievements



500KW Factory Pitched Roof, Nan'an, Fujian

Packaging



Qualifications

Australian AS/NZS1170



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ENGINEERING CERTIFICATE

Our Ref: LTR/11832R-Goomax-000

August 2015

This is to certify that at the request of Xiamen Goomax Energy Technology co.,Ltd, Dome Consulting (Aust) Pty Ltd have reviewed the componentry used in the Tile Roof Mounting, Metal Roof Assembly and the Adjustable Solar Mounting Systems Installation Instruction Version 1.0 — updated July 2015.

The elements which were to be checked include:

Rail	GM-R01/R15/R16
Rail Splice Kit	GM-RS-11
Rail Clamp	GM-BR-01
Inter Clamp (30mm, 35mm, 40mm,45mm, 50mm)	GM-MC
End Clamp (30mm, 35mm, 40mm,45mm, 50mm)	GM-EC
Tile Roof Hook	GM-CTH-01
Tin Roof Hook L Leg	GM-MRH-L
Adjustable Tilt Front Leg	GM-AS-B01
Adjustable Tilt Rear Leg	GM-AS
Adjustable Triangle Frame	GM-FT
Klip-Lok 406	GM-MRH-07
Klip-Lok 700	GM-MRH-06

The check included a review of all regions of Australia wind loading conditions including Cyclonic conditions, in accordance to AS1170.2/AMD2/2012.12.24.

The design and documentation has determined that all supporting componentry in the above mentioned documentation was found to be acceptable.

Attention Installer:

For Solar panels installed on metal roof by using clamp locks inspections by be required by a local qualified Engineer prior to any installation, to ensure the existing metal roof is under suitable conditions

Assumption:

The existing roofing is firmly/properly fixed to the existing roof battens.

Should you have any further queries please do not hesitate to contact me.

Yours faithfully,
FOR & ON BEHALF OF DOME CONSULTING PTY LTD

Robert Cilia
BE (Civil) RBP RPEQ TBP

Our Ref: 11832-R-000

STRUCTURAL REPORT

Solar Panel Support System

Xiamen Goomax Energy Technology Co. Ltd

AS/NZS 1170.2:2011 AMDT No.2 DEC 2012

COPY No: 1
ISSUED TO: Solar Panel Support System
ISSUED BY: Robert Cilia
DATE OF ISSUE: August 2015



Relationships built on trust

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 www.gamcorp.com.au melbourne@gamcorp.com.au
 Suite 4, 346 Ferntree Gully Rd, Notting Hill VIC 3168
 Tel: 03 9543 2211 Fax: 03 9543 4046



Our Ref: 3344-GM-U2 / LvS
 14 July 2017

XIAMEN GOOMAX ENERGY TECHNOLOGY CO.,LTD
 Suite 905, Jordan Building, High-tech Park, Huli District
 Xiamen, China

Array Frame Engineering Certificate

RE: Single Pole GM Solar system (double support) – assessment for wind regions A in Australia and New Zealand

Gamcorp (Melbourne) Pty Ltd, being Structural Engineers within the meaning of Australian and NZ Building Regulations, have carried out a structural design check of the Single Pole GM Solar system (double support) within Australian and New Zealand's wind region A. The design check has been based on the information and drawings of the system and its components, provided by Xiamen Goomax Energy Technology Co., LTD.

We find the Single Pole GM Solar system (double support) to be structurally sufficient for Australian and New Zealand use, based on the following conditions:

- Wind Loads to AS/NZ1170.2:2011, Amendment 3:2012:
 - Wind Terrain Category 2;
 - Wind average recurrence interval of 500 years ($V_w=45\text{m/s}$);
 - Wind region A;
- Solar Panel length 1.956m, width 0.992m, mass 22kg;
- Tilt angle 30 degrees;
- Frame material: Q235 for the post, other members Aluminium AL/6005-T5;
- Maximum frame spacing $S=1.75\text{m}^*$ and possible footing options:
 - 1) driven post, $L=2.9\text{m}$ deep in soil*;
 - 2) post embedded in concrete pier $\phi 300\text{mm}$, 1.5m deep in soil**.

Notes.

- This certification is applicable for Single Pole GM Solar system (double support) with dimensions as shown on page 2 of this letter.
 Contact Gamcorp for customised system or if the site conditions do not covered by the soil classes considered in this assessment.
 - For concrete piers foundation use 25 MPa strength concrete (minimum).

*The maximum frame spacing is based on the structural capacity of the frame in the edge (perimeter) zone of array. We recommend to perform tests on site for the geotechnical capacity of the driven post. The spacing may need to be decreased to achieve the available geotechnical capacity of the driven post following from the test results.

**Footing option 2 recommended for 'firm' soils with allowable end bearing capacity of 100 kPa (damp clays, sandy clays, damp sands). Other piers sizes are possible. Contact Gamcorp for site specific conditions (to find out whether a more cost effective solution is possible).

Construction is to be carried out strictly on accordance with the instruction manual. This work was designed in accordance with the provisions of Australian Building Regulations and in accordance with sound, widely accepted engineering principles.

Yours faithfully,
 Gamcorp (Melbourne) Pty Ltd

M. Gamble
 Managing Director
 MAICD

L. Van Spaandonk
 Principal Engineer
 MIEAust NER

ISO 9001:2008 Registered Firm
 Certificate No: AU1222



Relationships built on trust

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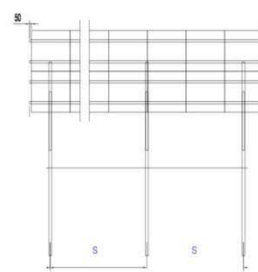


Fig. 1

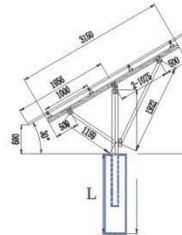
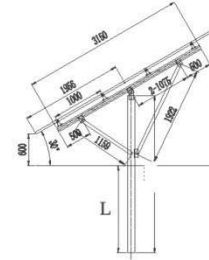


Fig. 2

Attachments:
 5 drawings with member sections.

ISO 9001:2008 Registered Firm
 Certificate No: AU1222

Qualifications

ISO Certificates



Qualifications

ISO Certificates



ISO9001
Quality Management
System



GB/T 24001-2014
Environment
Management System
Certification



GB/T 28001-2011
Occupational Health
Safety System
Certification

Qualifications

Domestic Certificates & Honors



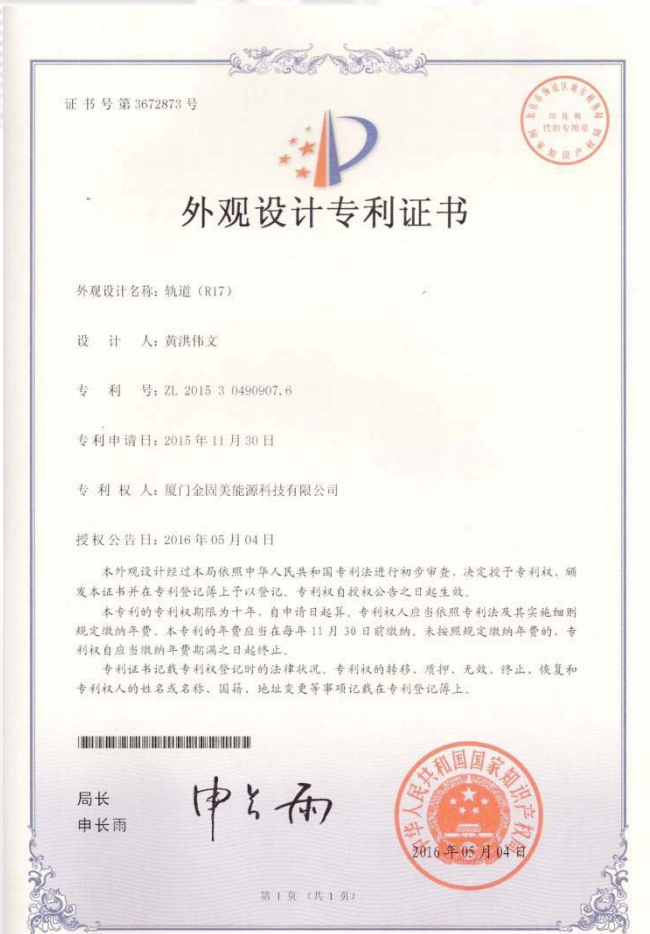
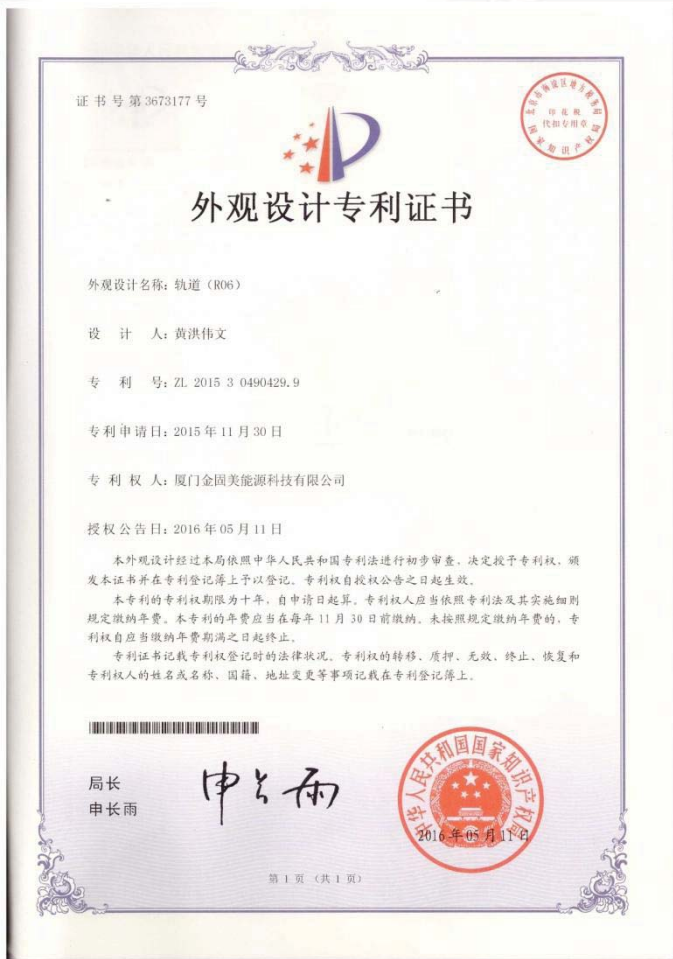
Qualifications

Domestic Certificates & Honors



Qualifications

Patens



Qualifications

Patens



GOOMAX Global



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Corporate Philosophy



Glorious Inherence

Impart Benevolence

A successful enterprise must be possessed with outstanding corporate culture and social responsibility. GOOMAX, as an enterprise committed to building a hundred years brand and leading the development trend of the industry, We consistently uphold the philosophy of “Glorious Inherence, Impart Benevolence”, as the enterprise develops and grows, meanwhile we constantly improve the welfare treatment of employees, create a culture full of humanistic care and love, and continue to be enthusiastic about charity and actively practice corporate social responsibility.



Responsibility

**Glorious
Inherence**
**Impart
Benevolence**

Creativity

Harmony