

AUSTRALIAN
**GLASS &
WINDOW**
ASSOCIATION

FIXING

AN INDUSTRY GUIDE TO THE
CORRECT FIXING OF WINDOWS
& DOORS



BACKGROUND

FOREWORD

The Australian Window Association is pleased to produce this Industry Guide for the Fixing of Windows and Doors as part of its commitment to raising the standard of the built performance of windows and doors. This guide is a recommendation as to the fixings to be used and is based on Australian Standard AS1720.1-1997 Timber structures.

AUSTRALIAN GLASS AND WINDOW ASSOCIATION

The AGWA is a co-operative of window manufacturers and their suppliers.

The Australian Glass and Window Association (AGWA) aims are:

- To promote and advance the awareness of windows as a major architectural component in building design
- To establish and self regulate minimum benchmark standards through Australia. To facilitate the education and marketing of these standards throughout the industry and wider community
- To provide a national voice when representing the industry in discussion and negotiation with government, local authorities, business and trade associations and organisations, and the private sector
- To promote and encourage ethical conduct and sound business practice in the industry

ACKNOWLEDGEMENTS

OBJECTIVE

This Industry Guide to the Fixing of Windows and Doors sets out to provide the basic fastening number and sizes for fixing windows and doors into residential buildings. By providing this resource as a guide it is hoped that windows and doors supplied to residential buildings remain structurally sound.

ACKNOWLEDGEMENT

The AGWA gratefully acknowledges those member companies whose contributions of materials and continued support to the AGWA Technical Committee and its sub-committees have made this guide possible.

The AGWA specially acknowledges Mr Neil Cunningham, Research & Development Engineer of The A&L Group.

DISCLAIMER

The information contained is for use on windows and doors up to a maximum height of 2700mm. For all sizes greater than 2700mm an engineered solution is required. Refer to the system supplier.

While the AGWA has made every effort to ensure that the material within this guide is accurate, the Australian Glass and Window Association will not be liable for any mistakes, errors or omissions arising as a result of information contained in this guide.

This Fixing Guide is designed to be used in conjunction with the "Installation - An Industry Guide to the Correct Installation of Windows & Doors" published by the AGWA

CONTENTS

Background	3
Acknowledgements	4
Responsibilities	6
Fixing Frames Correctly	9
Fixing Size Guide	11
Nails	
N1	12
N2	14
N3	17
N4	20
N5	22
N6	24
C1	26
C2	29
C3	31
C4	33
Screws	
N1	35
N2	37
N3	39
N4	41
N5	43
N6	45
C1	47
C2	49
C3	51
C4	53
Further Information	55

Document No. AGWA2010/FIXV1

2010 © Copyright Australian Glass and Window Association

RESPONSIBILITIES

THE BUILDING CODE OF AUSTRALIA

The Building Code of Australia (BCA) is produced and maintained by the Australian Building Codes Board (ABCB) on behalf of the Australian Government and each State and Territory Government.

The BCA is a uniform set of technical provisions for the design and construction of buildings and other structures throughout Australia. It allows for variation in climate and geological or geographic conditions.

Under part 3.0 section 3.6.0 of Volume Two of the BCA, performance requirements (P2.1 & P2.2.2) are satisfied if windows are designed and constructed in accordance with AS2047. For glazed assemblies not covered by AS2047 compliance to AS1288 is required.

AS2047 - Windows in buildings: Selection and Installation
AS1288 - Glass in buildings: Selection and Installation

INSTALLATION

At all times manufacturer's installation instructions will be the predominant procedure for the installation of proprietary windows.

Installers should ensure that manufacturer's instruction are adopted.

The practices outlined in this guide are not intended to supersede manufacturer's instructions but provide basic and generic guidelines in the absence of such.

Approved PPE (performance protective equipment) should be worn at all times when handling windows.

Special consideration needs to be made for windows and doors systems designed specifically for acoustic and energy efficiency and reference must be made to the building designer or installer for installation details.

RESPONSIBILITIES

Extract from AS2047 Appendix D

1. For housing and other residential buildings the purchaser (building designer or builder) should nominate the window rating (N or C) when ordering the window assemblies.
2. For other buildings the purchaser should nominate the design wind pressures for the windows assemblies when ordering the windows.
3. The manufacturer of window assemblies should verify the window ratings or design wind pressures

Methods of identifying windows that comply to AS2047

LABELLING

The label should be positioned so that the window can be identified when viewed in situ and have the following information marked on the frame:

a. Housing:

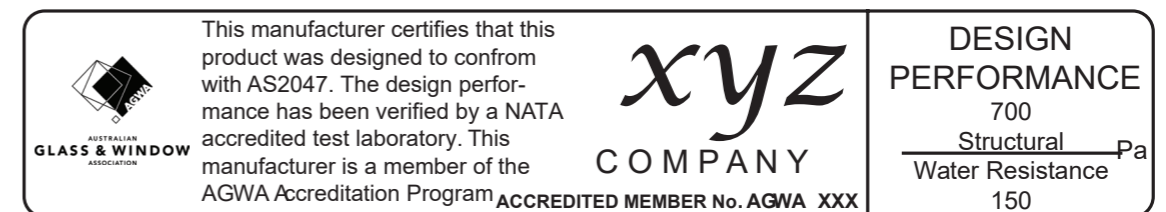
1. Manufacturer's identification mark
2. Window rating and water penetration resistance

b. Residential other than housing:

1. Manufacturer's identification mark.
2. Serviceability limit state residential ratings
3. Ultimate limit state residential ratings
4. Water penetration resistance

c. Commercial:

1. Manufacturer's identification mark
2. Serviceability limit state commercial ratings
3. Ultimate limit state commercial ratings
4. Water penetration resistance.




Example of labelling used by AGWA Members

RESPONSIBILITIES

CERTIFICATE

Certificates, indicating window performance can be provided for window assemblies in residential applications. The manufacturer of the window assembly would normally provide this certificate.



COMPLIANCE CERTIFICATE

is a participating member of the AGWA Accreditation Program, provides a 6 year Guarantee against faulty workmanship and materials (refer to Manufacturer's Warranty), is committed to the Industry Code of Conduct and has met the requirements of the annual AGWA Compliance Audit.

The manufacturer certifies that the windows and doors supplied to:

Delivery address: _____

Delivered on: _____

have been manufactured to comply with the Australian Glass and Window Standard AS 2047 and Glass Standard AS 1288 including human impact requirements as specified in the order. The windows and doors have been manufactured to comply with NCC energy efficiency and bushfire requirements as specified by the purchaser.

The windows have been manufactured to comply with:

Housing			Other Construction				
SLS Pa	ULS Pa	WPR Pa	SLS Pa	ULS Pa	WPR Pa		
<input type="checkbox"/> N1	400	600	150	<input type="checkbox"/> C1	600	1800	150
<input type="checkbox"/> N2	400	900	150	<input type="checkbox"/> C2	800	2700	200
<input type="checkbox"/> N3	600	1600	150	<input type="checkbox"/> C3	1200	4000	300
<input type="checkbox"/> N4	800	2000	200	<input type="checkbox"/> C4	1600	5300	450
<input type="checkbox"/> N5	1200	3000	300				
<input type="checkbox"/> N6	1600	4000	450				

Note: For corner windows, the next highest rating pressure applies.

Energy Performance Ratings, AFRC Results: U Value, U_w _____ Solar Heat Gain Co efficient, SHGC, _____

Refer to attached schedule

Bushfire Rating: BAL 12.5 BAL 19 BAL 29
 BAL 40 BAL FZ Not required/specified


Methodology: Tested (AS 1530.8) Prescriptive (AS 3959)

Signed: _____ Date: _____
Window Company

The builder/installer certifies that the windows and doors supplied have been installed correctly in accordance with the requirements of the National Construction Code and the human impact glass located in the correct openings.

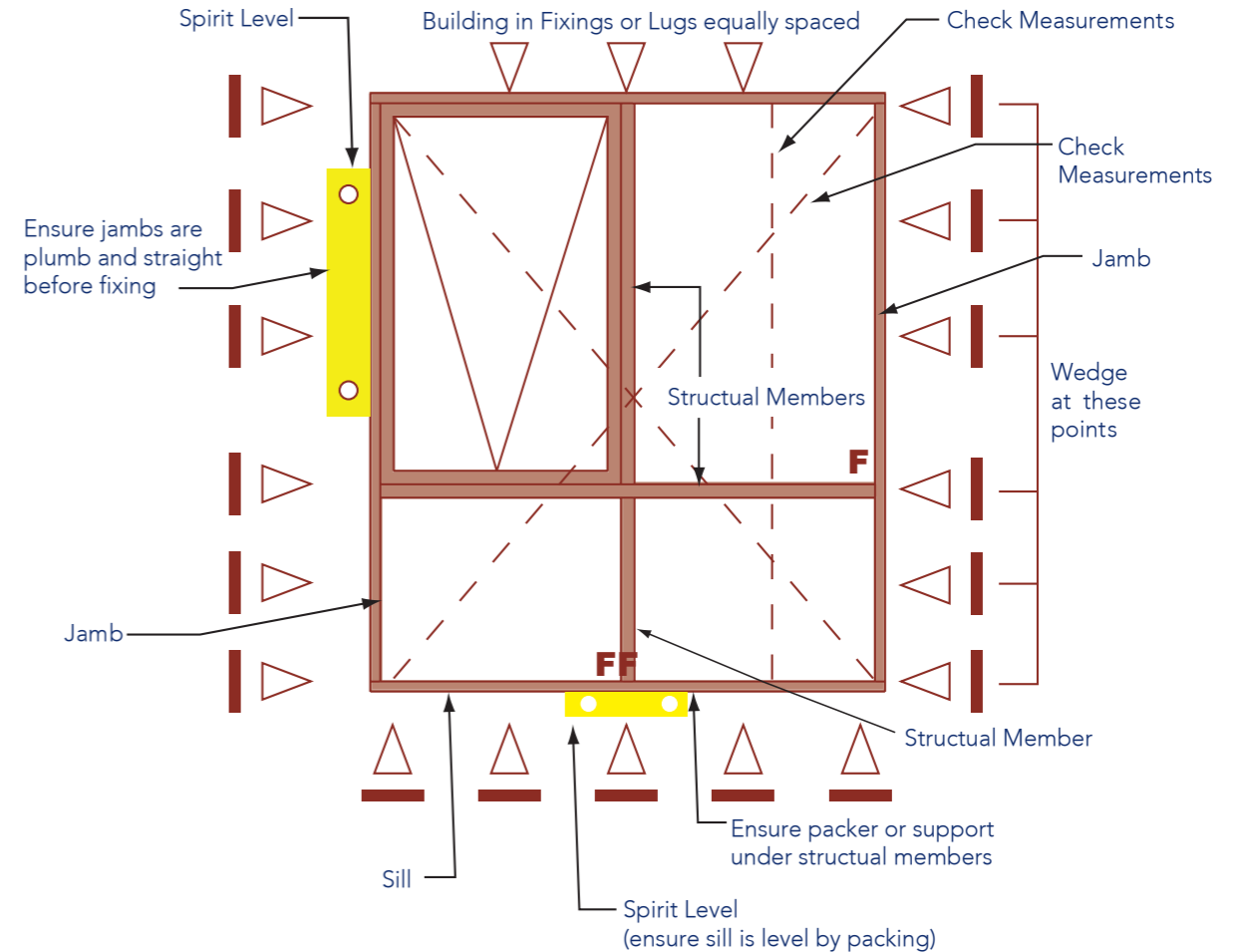
Signed: _____ Date: _____
Builder/Installer

For accreditation details, visit www.agwa.com.au
 Document No. AGWA.CC.A2014



The inspection services of the AGWA are accredited. Inspection Agency Number
13739

FIXING FRAMES CORRECTLY



* Fix via building lugs, nails or shim at equally spaced arrow points.

Example of Compliance Certificate used by AGWA Members

HOW TO USE THIS GUIDE

The tables within this guide determine the number of nails or screws needed for appropriate fixing of windows and doors.

The number of nails or screws needed are dependent on the:

- Wind Classification (as provided by AS4055)
- ULS Wind Pressure
- Diameter of Nail or Screw Size
- Window Width
- Window Height

Fixings would normally be evenly spaced but some specific product types and/or wind loading conditions may require specialised placement. Refer to your system supplier if you are unsure.

Example

ULS Wind Pressure: 700 Pa, Nail Diameter: 1.8 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	6	6	6	6
	900	4	4	4	4	6	6	6	8	8	10	10
	1200	4	4	4	6	6	8	8	10	10	12	12
	1500	4	4	6	8	8	10	10	12	14	14	16
	1800	4	6	6	8	10	12	12	14	16	18	18
	2100	4	6	8	10	12	14	14	16	18	20	22
	2400	4	6	8	10	12	14	16	18	20	22	24
	2700	6	8	10	12	14	16	18	20	24	26	28
3000	6	8	10	14	16	18	20	24	26	28	30	

For a window with the size of **2100mm (h) x 1500mm (w)** to be fixed into a home built in with a **N1 Wind Classification** zone (with a **ULS Wind Pressure of 700Pa**) and using a **1.8mm** nail: **10 Nails** are to be used to fix this window.

EMBEDMENT DEPTH

Embedment Depth into timber and masonry

$$p \geq 10D$$

p = penetration
D = diameter of nail or screw

- Example:
- Using a 2.5mm nail, penetration should be at least 25mm
 - Using a 6 Gauge screw, determine the diameter, in this case 2.8mm, penetration should be at least 28mm

FIXING SIZE GUIDE

ASSUMPTIONS

1. The following tables for nails and screws show the minimum number of fasteners required to hold a window into a timber frame, but may be equally applicable to fastening into other materials.
2. These tables have been derived from AS1720.1-1997 Timber structures, Section 4.2 Design of nailed joints: Type 1, Species group JD4.
3. 1.8 and 2.1mm nails are not included in AS1720.1. However extrapolated values have been used to calculate the tables.
4. ULS wind pressures are as per AS2047-1999 Windows in Buildings and AS4055-2006 Wind loads for housing.
5. Windows must be packed between the reveals and frame (except at lintels). Failure to do so will greatly reduce the strength of the fasteners used.
6. It is assumed that the load is distributed equally to all fasteners.
7. Manufacturers generally recommend that windows be fastened through the jambs. Wide windows may need to be fastened through the sill.
8. Wide windows and doors may also need extra consideration to the head to resist wind-loads. The head cannot take any of the vertical load through the lintel

NAIL CAPACITY - N1

ULS Wind Pressure: 700 Pa, Nail Diameter: 1.8 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	6	6	6	6
900	4	4	4	4	6	6	6	8	8	10	10
1200	4	4	4	6	6	8	8	10	10	12	12
1500	4	4	6	8	8	10	10	12	14	14	16
1800	4	6	6	8	10	12	12	14	16	18	18
2100	4	6	8	10	12	14	14	16	18	20	22
2400	4	6	8	10	12	14	16	18	20	22	24
2700	6	8	10	12	14	16	18	20	24	26	28

ULS Wind Pressure: 700 Pa, Nail Diameter: 2.1 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	6
900	4	4	4	4	4	4	6	6	6	6	8
1200	4	4	4	4	6	6	6	8	8	8	10
1500	4	4	4	6	6	6	8	8	10	10	12
1800	4	4	6	6	8	8	10	10	12	12	14
2100	4	4	6	6	8	10	10	12	12	14	16
2400	4	6	6	8	10	10	12	14	14	16	18

ULS Wind Pressure: 700 Pa, Nail Diameter: 2.5 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	6
1200	4	4	4	4	4	4	4	6	6	6	6
1500	4	4	4	4	4	6	6	6	6	8	8
1800	4	4	4	4	6	6	6	8	8	8	10
2100	4	4	4	6	6	6	8	8	10	10	12
2400	4	4	4	6	6	8	8	10	10	12	12
2700	4	4	6	6	8	8	10	10	12	12	14

NAIL CAPACITY - N1

ULS Wind Pressure: 700 Pa, Nail Diameter: 2.8 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	6	6
1500	4	4	4	4	4	4	4	6	6	6	6
1800	4	4	4	4	4	6	6	6	6	8	8
2100	4	4	4	4	6	6	6	8	8	8	10
2400	4	4	4	4	6	6	8	8	8	10	10
2700	4	4	4	6	6	8	8	8	10	10	12

ULS Wind Pressure: 700 Pa, Nail Diameter: 3.15 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	6	6	6
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	6	6	6	6	6	8	8
2400	4	4	4	4	6	6	6	6	8	8	8
2700	4	4	4	4	6	6	6	8	8	8	10

ULS Wind Pressure: 700 Pa, Nail Diameter: 3.75 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	4	4
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	6	6	6	6	6	6	6
2400	4	4	4	4	6	6	6	6	6	6	6
2700	4	4	4	4	6	6	6	6	6	6	8

NAIL CAPACITY - N2

ULS Wind Pressure: 1000 Pa, Nail Diameter: 1.8 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	6	6	6	8	8	8	10
900	4	4	6	6	8	8	10	10	12	12	14
1200	4	6	6	8	10	10	12	14	16	16	18
1500	4	6	8	10	12	14	16	16	18	20	22
1800	6	8	10	12	14	16	18	20	22	24	26
2100	6	8	10	14	16	18	20	24	26	28	30
2400	6	10	12	16	18	20	24	26	30	32	34
2700	8	10	14	16	20	24	26	30	32	36	38

ULS Wind Pressure: 1000 Pa, Nail Diameter: 2.1 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	6	6	6	6
900	4	4	4	4	6	6	6	8	8	8	10
1200	4	4	4	6	6	8	8	10	10	12	12
1500	4	4	6	8	8	10	10	12	14	14	16
1800	4	6	6	8	10	12	12	14	16	16	18
2100	4	6	8	10	12	12	14	16	18	20	22
2400	4	6	8	10	12	14	16	18	20	22	24
2700	6	8	10	12	14	16	18	20	22	24	28

ULS Wind Pressure: 1000 Pa, Nail Diameter: 2.5 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	6
900	4	4	4	4	4	4	6	6	6	6	8
1200	4	4	4	4	6	6	6	8	8	8	10
1500	4	4	4	6	6	6	8	8	10	10	12
1800	4	4	6	6	8	8	10	10	12	12	14
2100	4	4	6	6	8	10	10	12	12	14	16
2400	4	6	6	8	10	10	12	14	14	16	18
2700	4	6	8	8	10	12	14	14	16	18	20

NAIL CAPACITY - N2

ULS Wind Pressure: 1000 Pa, Nail Diameter: 2.8 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	6	6	6
1200	4	4	4	4	4	4	6	6	6	8	8
1500	4	4	4	4	6	6	6	8	8	8	10
1800	4	4	4	6	6	6	8	8	10	10	12
2100	4	4	4	6	6	8	8	10	10	12	12
2400	4	4	6	6	8	8	10	12	12	14	14
2700	4	4	6	8	8	10	12	12	14	14	16

ULS Wind Pressure: 1000 Pa, Nail Diameter: 3.15 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	6
1200	4	4	4	4	4	4	4	6	6	6	6
1500	4	4	4	4	4	6	6	6	6	8	8
1800	4	4	4	4	6	6	6	8	8	8	10
2100	4	4	4	6	6	6	8	8	10	10	10
2400	4	4	4	6	6	8	8	10	10	12	12
2700	4	4	6	6	8	8	10	10	12	12	14

ULS Wind Pressure: 1000 Pa, Nail Diameter: 3.75 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	6
1500	4	4	4	4	4	4	4	4	6	6	6
1800	4	4	4	4	4	6	6	6	6	6	8
2100	4	4	4	4	6	6	6	6	6	8	8
2400	4	4	4	4	6	6	6	8	8	8	10
2700	4	4	4	4	6	6	8	8	8	10	10

NAIL CAPACITY - N2

ULS Wind Pressure: 1000 Pa, Nail Diameter: 4.5 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	4	4
1800	4	4	4	4	4	4	4	4	4	6	6
2100	4	4	4	4	4	4	4	4	6	6	6
2400	4	4	4	4	4	4	4	6	6	6	6
2700	4	4	4	4	4	4	6	6	6	8	8

ULS Wind Pressure: 1000 Pa, Nail Diameter: 5 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	4	4
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	6	6	6	6	6	6	6
2400	4	4	4	4	6	6	6	6	6	6	6
2700	4	4	4	4	6	6	6	6	6	6	6

NAIL CAPACITY - N3

ULS Wind Pressure: 1500 Pa, Nail Diameter: 1.8 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	6	6	8	8	10	10	12	12
900	4	6	8	8	10	12	14	16	16	18	20
1200	6	8	10	12	14	16	18	20	22	24	26
1500	6	8	12	14	16	20	22	24	28	30	32
1800	8	10	14	16	20	24	26	30	32	36	38
2100	8	12	16	20	24	26	30	34	38	42	46
2400	10	14	18	22	26	30	34	38	44	48	52
2700	10	16	20	24	30	34	38	44	48	54	58

ULS Wind Pressure: 1500 Pa, Nail Diameter: 2.1 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	6	6	6	8	8	8	10
900	4	4	6	6	8	8	10	10	12	12	14
1200	4	6	6	8	10	12	12	14	16	16	18
1500	4	6	8	10	12	14	16	18	20	20	22
1800	6	8	10	12	14	16	18	20	22	24	28
2100	6	8	12	14	16	18	22	24	26	28	32
2400	6	10	12	16	18	22	24	28	30	32	36
2700	8	10	14	18	20	24	28	30	34	36	40

ULS Wind Pressure: 1500 Pa, Nail Diameter: 2.5 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	6	6	6	6	8
900	4	4	4	4	6	6	8	8	8	10	10
1200	4	4	6	6	8	8	10	10	12	12	14
1500	4	4	6	8	8	10	12	12	14	16	16
1800	4	6	8	8	10	12	14	14	16	18	20
2100	4	6	8	10	12	14	16	18	18	20	22
2400	6	8	10	12	14	16	18	20	22	24	26
2700	6	8	10	12	14	18	20	22	24	26	28

NAIL CAPACITY - N3

ULS Wind Pressure: 1500 Pa, Nail Diameter: 2.8 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	6	6	6
900	4	4	4	4	4	6	6	6	8	8	8
1200	4	4	4	6	6	6	8	8	10	10	12
1500	4	4	6	6	8	8	10	10	12	12	14
1800	4	4	6	8	8	10	12	12	14	14	16
2100	4	6	6	8	10	12	12	14	16	18	18
2400	4	6	8	10	12	12	14	16	18	20	22
2700	4	6	8	10	12	14	16	18	20	22	24

ULS Wind Pressure: 1500 Pa, Nail Diameter: 3.15 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	6
900	4	4	4	4	4	4	6	6	6	6	8
1200	4	4	4	4	6	6	6	8	8	8	10
1500	4	4	4	6	6	8	8	8	10	10	12
1800	4	4	6	6	8	8	10	10	12	12	14
2100	4	4	6	8	8	10	10	12	14	14	16
2400	4	6	6	8	10	10	12	14	14	16	18
2700	4	6	8	8	10	12	14	14	16	18	20

ULS Wind Pressure: 1500 Pa, Nail Diameter: 3.75 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	6	6
1200	4	4	4	4	4	4	6	6	6	6	8
1500	4	4	4	4	4	6	6	6	8	8	8
1800	4	4	4	4	6	6	8	8	8	10	10
2100	4	4	4	6	6	8	8	8	10	10	12
2400	4	4	6	6	8	8	10	10	12	12	14
2700	4	4	6	6	8	8	10	12	12	14	14

NAIL CAPACITY - N3

ULS Wind Pressure: 1500 Pa, Nail Diameter: 4.5 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	6	6
1500	4	4	4	4	4	4	4	6	6	6	6
1800	4	4	4	4	4	6	6	6	6	8	8
2100	4	4	4	4	6	6	6	6	8	8	8
2400	4	4	4	4	6	6	6	8	8	10	10
2700	4	4	4	6	6	6	8	8	10	10	10

ULS Wind Pressure: 1500 Pa, Nail Diameter: 5 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	6	6
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	6	6	6	6	6	6	8
2400	4	4	4	6	6	6	6	6	8	8	8
2700	4	4	4	6	6	6	6	8	8	8	10

NAIL CAPACITY - N4

ULS Wind Pressure: 2300 Pa, Nail Diameter: 2.5 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	
Window Height	600	4	4	4	4	6	6	8	8	8	10	10
900	4	4	6	6	8	10	10	12	12	14	16	
1200	4	6	8	8	10	12	14	16	16	18	20	
1500	4	6	8	10	12	14	16	18	20	22	24	
1800	6	8	10	12	16	18	20	22	24	26	30	
2100	6	10	12	14	18	20	22	26	28	32	34	
2400	8	10	14	16	20	22	26	30	32	36	38	
2700	8	12	16	18	22	26	30	32	36	40	44	

ULS Wind Pressure: 2300 Pa, Nail Diameter: 2.8 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	6	6	6	8	8	8
900	4	4	4	6	6	8	8	10	10	12	12
1200	4	4	6	8	8	10	12	12	14	16	16
1500	4	6	8	10	10	12	14	16	18	18	20
1800	4	6	8	10	12	14	16	18	20	22	24
2100	6	8	10	12	14	16	18	22	24	26	28
2400	6	8	12	14	16	18	22	24	26	30	32
2700	6	10	12	16	18	22	24	28	30	32	36

ULS Wind Pressure: 2300 Pa, Nail Diameter: 3.15 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	6	6	6	6	8
900	4	4	4	4	6	6	8	8	8	10	10
1200	4	4	6	6	8	8	10	10	12	12	14
1500	4	4	6	8	8	10	12	12	14	16	16
1800	4	6	8	8	10	12	14	16	16	18	20
2100	4	6	8	10	12	14	16	18	20	22	24
2400	6	8	10	12	14	16	18	20	22	24	26
2700	6	8	10	12	16	18	20	22	24	28	30

NAIL CAPACITY - N4

ULS Wind Pressure: 2300 Pa, Nail Diameter: 3.75 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	6	6
900	4	4	4	4	4	6	6	6	6	8	8
1200	4	4	4	4	6	6	8	8	8	10	10
1500	4	4	4	6	6	8	8	10	10	12	12
1800	4	4	6	6	8	10	10	12	12	14	14
2100	4	6	6	8	10	10	12	14	14	16	18
2400	4	6	8	8	10	12	14	14	16	18	20
2700	4	6	8	10	12	14	14	16	18	20	22

ULS Wind Pressure: 2300 Pa, Nail Diameter: 4.5 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	6	6	6
1200	4	4	4	4	4	4	6	6	6	8	8
1500	4	4	4	4	6	6	6	8	8	8	10
1800	4	4	4	6	6	6	8	8	10	10	12
2100	4	4	4	6	6	8	8	10	10	12	12
2400	4	4	6	6	8	8	10	12	12	14	14
2700	4	4	6	8	8	10	12	12	14	14	16

ULS Wind Pressure: 2300 Pa, Nail Diameter: 5 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	6
1200	4	4	4	4	4	4	4	6	6	6	6
1500	4	4	4	4	4	6	6	6	6	8	8
1800	4	4	4	4	6	6	6	8	8	8	10
2100	4	4	4	6	6	6	8	8	10	10	10
2400	4	4	4	6	6	8	8	10	10	12	12
2700	4	4	6	6	8	8	10	10	12	12	14

NAIL CAPACITY - N5

ULS Wind Pressure: 3300 Pa, Nail Diameter: 2.5 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	6	6	8	8	10	12	12	14	14
900	4	6	8	10	12	12	14	16	18	20	22
1200	6	8	10	12	14	16	18	22	24	26	28
1500	6	10	12	16	18	20	24	26	30	32	34
1800	8	12	14	18	22	24	28	32	34	38	42
2100	8	12	16	20	24	28	32	36	40	44	48
2400	10	14	18	24	28	32	36	42	46	50	54
2700	12	16	22	26	32	36	42	46	52	56	62

ULS Wind Pressure: 3300 Pa, Nail Diameter: 2.8 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	6	6	8	8	10	10	12	12
900	4	6	6	8	10	10	12	14	14	16	18
1200	4	6	8	10	12	14	16	18	20	22	24
1500	6	8	10	12	14	18	20	22	24	26	28
1800	6	10	12	14	18	20	24	26	28	32	34
2100	8	10	14	18	20	24	26	30	34	36	40
2400	8	12	16	20	24	26	30	34	38	42	46
2700	10	14	18	22	26	30	34	38	42	46	50

ULS Wind Pressure: 3300 Pa, Nail Diameter: 3.15 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	6	6	8	8	8	10	10
900	4	4	6	6	8	8	10	12	12	14	14
1200	4	6	8	8	10	12	14	14	16	18	20
1500	4	6	8	10	12	14	16	18	20	22	24
1800	6	8	10	12	14	16	20	22	24	26	28
2100	6	8	12	14	16	20	22	24	28	30	32
2400	8	10	14	16	20	22	26	28	32	34	38
2700	8	12	14	18	22	24	28	32	36	38	42

NAIL CAPACITY - N5

ULS Wind Pressure: 3300 Pa, Nail Diameter: 3.75 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	6	6	6	8	8
900	4	4	4	6	6	6	8	8	10	10	10
1200	4	4	6	6	8	8	10	10	12	14	14
1500	4	6	6	8	10	10	12	14	14	16	18
1800	4	6	8	10	10	12	14	16	18	20	20
2100	4	6	8	10	12	14	16	18	20	22	24
2400	6	8	10	12	14	16	18	20	24	26	28
2700	6	8	10	14	16	18	20	24	26	28	30

ULS Wind Pressure: 3300 Pa, Nail Diameter: 4.5 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	6	6	6
900	4	4	4	4	4	6	6	6	8	8	8
1200	4	4	4	6	6	6	8	8	10	10	10
1500	4	4	6	6	8	8	10	10	12	12	14
1800	4	4	6	8	8	10	10	12	14	14	16
2100	4	6	6	8	10	10	12	14	16	16	18
2400	4	6	8	10	10	12	14	16	18	18	20
2700	4	6	8	10	12	14	16	18	20	20	22

ULS Wind Pressure: 3300 Pa, Nail Diameter: 5 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	6
900	4	4	4	4	4	4	6	6	6	6	8
1200	4	4	4	4	6	6	6	8	8	8	10
1500	4	4	4	6	6	6	8	8	10	10	12
1800	4	4	6	6	8	8	10	10	12	12	14
2100	4	4	6	6	8	10	10	12	12	14	16
2400	4	6	6	8	10	10	12	14	14	16	18
2700	4	6	8	8	10	12	14	14	16	18	20

NAIL CAPACITY - N6

ULS Wind Pressure: 4500 Pa, Nail Diameter: 2.8 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	6	8	8	10	12	12	14	14	16
900	4	6	8	10	12	14	16	18	20	22	24
1200	6	8	12	14	16	18	22	24	26	28	32
1500	8	10	14	16	20	22	26	30	32	36	38
1800	8	12	16	20	24	28	32	34	38	42	46
2100	10	14	18	22	28	32	36	40	44	50	54
2400	12	16	22	26	32	36	42	46	52	56	62
2700	12	18	24	30	34	40	46	52	58	64	68

ULS Wind Pressure: 4500 Pa, Nail Diameter: 3.15 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	6	6	8	8	10	10	12	12	14
900	4	6	8	8	10	12	14	14	16	18	20
1200	6	8	10	12	14	16	18	20	22	24	26
1500	6	8	12	14	16	20	22	24	26	30	32
1800	8	10	14	16	20	22	26	28	32	36	38
2100	8	12	16	20	22	26	30	34	38	40	44
2400	10	14	18	22	26	30	34	38	42	46	50
2700	10	14	20	24	28	34	38	42	48	52	56

ULS Wind Pressure: 4500 Pa, Nail Diameter: 3.75 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	6	6	8	8	8	10	10
900	4	4	6	6	8	8	10	12	12	14	14
1200	4	6	8	8	10	12	14	14	16	18	20
1500	4	6	8	10	12	14	16	18	20	22	24
1800	6	8	10	12	14	16	20	22	24	26	28
2100	6	8	12	14	16	20	22	24	28	30	32
2400	8	10	14	16	20	22	26	28	32	34	38
2700	8	12	14	18	22	24	28	32	34	38	42

NAIL CAPACITY - N6

ULS Wind Pressure: 4500 Pa, Nail Diameter: 4.5 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	6	6	6	8	8
900	4	4	4	6	6	6	8	8	10	10	10
1200	4	4	6	6	8	8	10	10	12	14	14
1500	4	6	6	8	10	10	12	14	14	16	18
1800	4	6	8	10	10	12	14	16	18	20	20
2100	4	6	8	10	12	14	16	18	20	22	24
2400	6	8	10	12	14	16	18	20	22	26	28
2700	6	8	10	14	16	18	20	24	26	28	30

ULS Wind Pressure: 4500 Pa, Nail Diameter: 5 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	6	6	6	6
900	4	4	4	4	6	6	6	8	8	8	10
1200	4	4	4	6	6	8	8	10	10	12	12
1500	4	4	6	6	8	8	10	12	12	14	14
1800	4	6	6	8	10	10	12	14	14	16	18
2100	4	6	8	8	10	12	14	16	16	18	20
2400	4	6	8	10	12	14	16	18	20	22	22
2700	6	8	10	12	14	16	18	20	22	24	26

ULS Wind Pressure: 4500 Pa, Nail Diameter: 5.6 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	6	6
900	4	4	4	4	4	4	6	6	6	8	8
1200	4	4	4	4	6	6	8	8	8	10	10
1500	4	4	4	6	6	8	8	10	10	12	12
1800	4	4	6	6	8	8	10	12	12	14	14
2100	4	4	6	8	8	10	12	12	14	16	16
2400	4	6	8	8	10	12	14	14	16	18	20
2700	4	6	8	10	12	12	14	16	18	20	22

NAIL CAPACITY - C1

ULS Wind Pressure: 2000 Pa, Nail Diameter: 2.1 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	6	6	8	8	10	10	12	12
900	4	6	6	8	10	12	12	14	16	16	18
1200	4	6	8	10	12	14	16	18	20	22	24
1500	6	8	10	14	16	18	20	22	26	28	30
1800	6	10	12	16	18	22	24	28	30	32	36
2100	8	12	14	18	22	24	28	32	34	38	42
2400	8	12	16	20	24	28	32	36	40	44	48
2700	10	14	18	22	28	32	36	40	44	48	54

ULS Wind Pressure: 2000 Pa, Nail Diameter: 2.5 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	6	6	6	8	8	8	10
900	4	4	6	6	8	8	10	10	12	12	14
1200	4	6	6	8	10	10	12	14	14	16	18
1500	4	6	8	10	12	12	14	16	18	20	22
1800	6	8	10	12	14	16	18	20	22	24	26
2100	6	8	10	12	16	18	20	22	24	28	30
2400	6	10	12	14	18	20	22	26	28	30	34
2700	8	10	14	16	20	22	26	28	32	34	38

ULS Wind Pressure: 2000 Pa, Nail Diameter: 2.8 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	6	6	6	8	8
900	4	4	4	6	6	6	8	8	10	10	12
1200	4	4	6	6	8	8	10	12	12	14	14
1500	4	6	6	8	10	10	12	14	14	16	18
1800	4	6	8	10	12	12	14	16	18	20	22
2100	4	6	8	10	12	14	16	18	20	22	24
2400	6	8	10	12	14	16	18	22	24	26	28
2700	6	8	12	14	16	18	22	24	26	28	32

NAIL CAPACITY - C1

ULS Wind Pressure: 2000 Pa, Nail Diameter: 3.15 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	6	6	6	6
900	4	4	4	4	6	6	6	8	8	8	10
1200	4	4	4	6	6	8	8	10	10	12	12
1500	4	4	6	6	8	10	10	12	12	14	14
1800	4	6	6	8	10	10	12	14	14	16	18
2100	4	6	8	10	10	12	14	16	18	18	20
2400	4	6	8	10	12	14	16	18	20	22	24
2700	6	8	10	12	14	16	18	20	22	24	26

ULS Wind Pressure: 2000 Pa, Nail Diameter: 3.75 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	6
900	4	4	4	4	4	4	6	6	6	6	8
1200	4	4	4	4	6	6	6	8	8	8	10
1500	4	4	4	6	6	6	8	8	10	10	12
1800	4	4	6	6	8	8	10	10	12	12	14
2100	4	4	6	6	8	10	10	12	12	14	16
2400	4	6	6	8	10	10	12	14	14	16	18
2700	4	6	8	8	10	12	14	14	16	18	20

ULS Wind Pressure: 2000 Pa, Nail Diameter: 4.5 mm

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	6	6
1200	4	4	4	4	4	4	4	6	6	6	6
1500	4	4	4	4	4	6	6	6	8	8	8
1800	4	4	4	4	6	6	6	8	8	10	10
2100	4	4	4	6	6	6	8	8	10	10	12
2400	4	4	4	6	6	8	8	10	10	12	12
2700	4	4	6	6	8	8	10	10	12	14	14

NAIL CAPACITY - C1

ULS Wind Pressure: 2000 Pa, Nail Diameter: 5 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	6	6	6
1500	4	4	4	4	4	4	6	6	6	6	8
1800	4	4	4	4	4	6	6	6	8	8	8
2100	4	4	4	4	6	6	6	8	8	8	10
2400	4	4	4	6	6	6	8	8	10	10	10
2700	4	4	4	6	6	8	8	10	10	12	12

NAIL CAPACITY - C2

ULS Wind Pressure: 3000 Pa, Nail Diameter: 2.5 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	
Window Height	600	4	4	6	6	8	8	10	10	12	12	14
900	4	6	8	8	10	12	14	14	16	18	20	
1200	6	8	10	12	14	16	18	20	22	24	26	
1500	6	8	12	14	16	18	22	24	26	30	32	
1800	8	10	14	16	20	22	26	28	32	34	38	
2100	8	12	16	18	22	26	30	34	36	40	44	
2400	10	14	18	22	26	30	34	38	42	46	50	
2700	10	14	20	24	28	34	38	42	48	52	56	

ULS Wind Pressure: 3000 Pa, Nail Diameter: 2.8 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	
Window Height	600	4	4	4	6	6	6	8	8	10	10	12
900	4	4	6	8	8	10	12	12	14	14	16	
1200	4	6	8	10	12	12	14	16	18	20	22	
1500	6	8	10	12	14	16	18	20	22	24	26	
1800	6	8	12	14	16	18	22	24	26	28	32	
2100	6	10	12	16	18	22	24	28	30	34	36	
2400	8	12	14	18	22	24	28	32	34	38	42	
2700	8	12	16	20	24	28	32	34	38	42	46	

ULS Wind Pressure: 3000 Pa, Nail Diameter: 3.15 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	
Window Height	600	4	4	4	4	6	6	6	8	8	8	10
900	4	4	6	6	8	8	10	10	12	12	14	
1200	4	6	6	8	10	10	12	14	14	16	18	
1500	4	6	8	10	12	14	14	16	18	20	22	
1800	6	8	10	12	14	16	18	20	22	24	26	
2100	6	8	10	14	16	18	20	22	26	28	30	
2400	6	10	12	14	18	20	24	26	28	32	34	
2700	8	10	14	16	20	22	26	28	32	36	38	

NAIL CAPACITY - C2

ULS Wind Pressure: 3000 Pa, Nail Diameter: 3.75 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	6	6	6	6	8
	900	4	4	4	4	6	6	8	8	8	10	10
	1200	4	4	6	6	8	8	10	10	12	12	14
	1500	4	4	6	8	8	10	12	12	14	14	16
	1800	4	6	8	8	10	12	14	14	16	18	20
	2100	4	6	8	10	12	14	16	16	18	20	22
	2400	6	8	10	12	14	16	18	20	22	24	26
	2700	6	8	10	12	14	16	20	22	24	26	28

ULS Wind Pressure: 3000 Pa, Nail Diameter: 4.5 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	6	6
	900	4	4	4	4	4	4	6	6	6	8	8
	1200	4	4	4	4	6	6	6	8	8	10	10
	1500	4	4	4	6	6	8	8	10	10	12	12
	1800	4	4	6	6	8	8	10	10	12	14	14
	2100	4	4	6	8	8	10	12	12	14	16	16
	2400	4	6	6	8	10	12	12	14	16	18	18
	2700	4	6	8	10	10	12	14	16	18	20	20

ULS Wind Pressure: 3000 Pa, Nail Diameter: 5 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	6	6	6	6
	1200	4	4	4	4	4	6	6	6	8	8	8
	1500	4	4	4	4	6	6	8	8	8	10	10
	1800	4	4	4	6	6	8	8	10	10	12	12
	2100	4	4	6	6	8	8	10	10	12	12	14
	2400	4	4	6	8	8	10	10	12	14	14	16
	2700	4	6	6	8	10	10	12	14	14	16	18

NAIL CAPACITY - C3

ULS Wind Pressure: 4400 Pa, Nail Diameter: 2.8 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	6	8	8	10	10	12	14	14	16
	900	4	6	8	10	12	14	16	18	20	22	24
	1200	6	8	10	14	16	18	20	24	26	28	30
	1500	8	10	14	16	20	22	26	28	32	34	38
	1800	8	12	16	20	24	26	30	34	38	42	46
	2100	10	14	18	22	26	32	36	40	44	48	52
	2400	10	16	20	26	30	36	40	46	50	56	60
	2700	12	18	24	28	34	40	46	50	56	62	68

ULS Wind Pressure: 4400 Pa, Nail Diameter: 3.15 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	6	6	8	8	10	10	12	12	14
	900	4	6	8	8	10	12	14	14	16	18	20
	1200	6	8	10	12	14	16	18	20	22	24	26
	1500	6	8	12	14	16	18	22	24	26	28	32
	1800	8	10	14	16	20	22	26	28	32	34	38
	2100	8	12	16	18	22	26	30	32	36	40	44
	2400	10	14	18	22	26	30	34	38	42	46	50
	2700	10	14	20	24	28	32	38	42	46	50	56

ULS Wind Pressure: 4400 Pa, Nail Diameter: 3.75 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	6	6	6	8	8	10	10
	900	4	4	6	6	8	8	10	10	12	14	14
	1200	4	6	6	8	10	12	12	14	16	18	18
	1500	4	6	8	10	12	14	16	18	20	22	24
	1800	6	8	10	12	14	16	18	20	24	26	28
	2100	6	8	12	14	16	20	22	24	26	30	32
	2400	6	10	12	16	18	22	24	28	30	34	36
	2700	8	10	14	18	20	24	28	30	34	38	40

NAIL CAPACITY - C3

ULS Wind Pressure: 4400 Pa, Nail Diameter: 4.5 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	6	6	6	6	8
	900	4	4	4	6	6	6	8	8	10	10	10
	1200	4	4	6	6	8	8	10	10	12	12	14
	1500	4	6	6	8	10	10	12	14	14	16	18
	1800	4	6	8	10	10	12	14	16	18	18	20
	2100	4	6	8	10	12	14	16	18	20	22	24
	2400	6	8	10	12	14	16	18	20	22	24	26
	2700	6	8	10	14	16	18	20	22	26	28	30

ULS Wind Pressure: 4400 Pa, Nail Diameter: 5 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	6	6	6	6
	900	4	4	4	4	6	6	6	8	8	8	10
	1200	4	4	4	6	6	8	8	10	10	10	12
	1500	4	4	6	6	8	8	10	12	12	14	14
	1800	4	6	6	8	10	10	12	14	14	16	18
	2100	4	6	8	8	10	12	14	16	16	18	20
	2400	4	6	8	10	12	14	16	18	18	20	22
	2700	6	8	10	12	14	16	18	20	22	24	26

ULS Wind Pressure: 4400 Pa, Nail Diameter: 5.6 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	6	6
	900	4	4	4	4	4	4	6	6	6	8	8
	1200	4	4	4	4	6	6	6	8	8	10	10
	1500	4	4	4	6	6	8	8	10	10	12	12
	1800	4	4	6	6	8	8	10	10	12	14	14
	2100	4	4	6	8	8	10	12	12	14	16	16
	2400	4	6	6	8	10	12	12	14	16	18	18
	2700	4	6	8	10	10	12	14	16	18	20	20

NAIL CAPACITY - C4

ULS Wind Pressure: 6000 Pa, Nail Diameter: 3.15 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	6	6	8	10	10	12	14	14	16	18
	900	6	8	10	12	14	16	18	20	22	24	26
	1200	6	10	12	14	18	20	24	26	28	32	34
	1500	8	12	14	18	22	26	28	32	36	38	42
	1800	10	14	18	22	26	30	34	38	42	46	50
	2100	10	16	20	26	30	34	40	44	50	54	58
	2400	12	18	24	28	34	40	46	50	56	62	68
	2700	14	20	26	32	38	44	50	56	62	70	76

ULS Wind Pressure: 6000 Pa, Nail Diameter: 3.75 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	6	6	8	8	10	10	12	12	14
	900	4	6	8	8	10	12	14	14	16	18	20
	1200	6	8	10	12	14	16	18	20	22	24	26
	1500	6	8	12	14	16	18	22	24	26	28	32
	1800	8	10	14	16	20	22	26	28	32	34	38
	2100	8	12	16	18	22	26	30	32	36	40	44
	2400	10	14	18	22	26	30	34	38	42	46	50
	2700	10	14	20	24	28	32	38	42	46	50	56

ULS Wind Pressure: 6000 Pa, Nail Diameter: 4.5 mm

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	6	6	6	8	8	10	10
	900	4	4	6	6	8	8	10	10	12	14	14
	1200	4	6	6	8	10	12	12	14	16	18	18
	1500	4	6	8	10	12	14	16	18	20	22	22
	1800	6	8	10	12	14	16	18	20	22	26	28
	2100	6	8	12	14	16	18	22	24	26	30	32
	2400	6	10	12	16	18	22	24	28	30	34	36
	2700	8	10	14	18	20	24	28	30	34	38	40

NAIL CAPACITY - C4

ULS Wind Pressure: 6000 Pa, Nail Diameter: 5 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	6	6	6	8	8	8
900	4	4	4	6	6	8	8	10	10	12	12
1200	4	4	6	8	8	10	10	12	14	14	16
1500	4	6	8	8	10	12	14	14	16	18	20
1800	4	6	8	10	12	14	16	18	20	22	22
2100	6	8	10	12	14	16	18	20	22	24	26
2400	6	8	10	14	16	18	20	22	26	28	30
2700	6	10	12	14	18	20	22	26	28	32	34

ULS Wind Pressure: 6000 Pa, Nail Diameter: 5.6 mm

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	6	6	6	6	8
900	4	4	4	4	6	6	8	8	8	10	10
1200	4	4	6	6	8	8	10	10	12	12	14
1500	4	4	6	8	8	10	12	12	14	14	16
1800	4	6	8	8	10	12	14	14	16	18	20
2100	4	6	8	10	12	14	16	16	18	20	22
2400	6	8	10	12	14	16	18	20	22	24	26
2700	6	8	10	12	14	16	20	22	24	26	28

SCREW CAPACITY - N1

ULS Wind Pressure: 700 Pa, Screw Size: 4 Gaugeda

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	6	6
1500	4	4	4	4	4	4	4	6	6	6	6
1800	4	4	4	4	4	6	6	6	6	8	8
2100	4	4	4	4	6	6	6	6	8	8	8
2400	4	4	4	4	6	6	6	8	8	10	10
2700	4	4	4	6	6	6	8	8	10	10	10

ULS Wind Pressure: 700 Pa, Screw Size: 6 Gauge

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	4	4
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	6	6	6	6	6	6	6
2400	4	4	4	4	6	6	6	6	6	6	6
2700	4	4	4	4	6	6	6	6	6	6	8

ULS Wind Pressure: 700 Pa, Screw Size: 8 Gaugeda

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	4	4
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	6	6	6	6	6	6	6
2400	4	4	4	4	6	6	6	6	6	6	6
2700	4	4	4	6	6	6	6	6	6	6	6

SCREW CAPACITY - N1

ULS Wind Pressure: 700 Pa, Screw Size: 10 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	6	6	6	6	6	6
	2100	4	4	4	4	4	6	6	6	6	6	6
	2400	4	4	4	4	6	6	6	6	6	6	6
	2700	4	4	4	6	6	6	6	6	6	6	6

ULS Wind Pressure: 700 Pa, Screw Size: 12 Gaugeda

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	6	6	6	6	6	6
	2100	4	4	4	4	6	6	6	6	6	6	6
	2400	4	4	4	6	6	6	6	6	6	6	6
	2700	4	4	6	6	6	6	6	6	6	6	6

ULS Wind Pressure: 700 Pa, Screw Size: 14 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	6	6	6	6	6	6
	2100	4	4	4	4	6	6	6	6	6	6	6
	2400	4	4	4	6	6	6	6	6	6	6	6
	2700	4	4	4	6	6	6	6	6	6	6	6

SCREW CAPACITY - N2

ULS Wind Pressure: 1000 Pa, Screw Size: 4 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	6	6
	1200	4	4	4	4	4	4	6	6	6	6	8
	1500	4	4	4	4	4	6	6	6	8	8	8
	1800	4	4	4	4	6	6	8	8	8	10	10
	2100	4	4	4	6	6	8	8	10	10	12	12
	2400	4	4	6	6	8	8	10	10	12	12	14
	2700	4	4	6	6	8	10	10	12	12	14	16

ULS Wind Pressure: 1000 Pa, Screw Size: 6 Gaugeda

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	6
	1500	4	4	4	4	4	4	4	4	6	6	6
	1800	4	4	4	4	4	6	6	6	6	6	8
	2100	4	4	4	4	6	6	6	6	8	8	8
	2400	4	4	4	4	6	6	6	8	8	8	10
	2700	4	4	4	4	6	6	8	8	8	10	10

ULS Wind Pressure: 1000 Pa, Screw Size: 8 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	6	6	6	6	6	6
	2100	4	4	4	4	4	6	6	6	6	6	6
	2400	4	4	4	4	6	6	6	6	6	6	6
	2700	4	4	4	6	6	6	6	6	6	8	8

SCREW CAPACITY - N2

ULS Wind Pressure: 1000 Pa, Screw Size: 10 Gauge

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	4	4	4	4	4	4	4	4	4	4	4
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	4	4
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	4	6	6	6	6	6	6
2400	4	4	4	4	6	6	6	6	6	6	6
2700	4	4	4	6	6	6	6	6	6	6	6

ULS Wind Pressure: 1000 Pa, Screw Size: 12 Gaugeda

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	4	4	4	4	4	4	4	4	4	4	4
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	4	4
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	6	6	6	6	6	6	6
2400	4	4	4	4	6	6	6	6	6	6	6
2700	4	4	4	6	6	6	6	6	6	6	6

ULS Wind Pressure: 1000 Pa, Screw Size: 14 Gauge

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	4	4	4	4	4	4	4	4	4	4	4
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	4	4
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	4	6	6	6	6	6	6
2400	4	4	4	4	6	6	6	6	6	6	6
2700	4	4	4	6	6	6	6	6	6	6	6

SCREW CAPACITY - N3

ULS Wind Pressure: 1500 Pa, Screw Size: 4 Gauge

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	4	4	4	4	4	4	4	4	4	6	6
600	4	4	4	4	4	6	6	6	6	8	8
900	4	4	4	4	6	6	8	8	8	10	10
1200	4	4	4	6	6	8	8	10	10	12	12
1500	4	4	6	6	8	10	10	12	14	14	16
1800	4	6	6	8	10	10	12	14	14	16	18
2100	4	6	8	8	10	12	14	16	16	18	20
2400	4	6	8	10	12	14	16	16	18	20	22
2700	4	6	8	10	12	14	16	18	20	22	

ULS Wind Pressure: 1500 Pa, Screw Size: 6 Gaugeda

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	4	4	4	4	4	4	4	4	4	4	4
600	4	4	4	4	4	4	4	4	4	6	6
900	4	4	4	4	4	6	6	6	6	6	8
1200	4	4	4	4	6	6	6	8	8	8	8
1500	4	4	4	6	6	8	8	10	10	10	12
1800	4	4	6	6	8	8	10	10	12	12	14
2100	4	6	6	8	10	10	12	12	14	14	14
2400	4	6	8	8	10	10	12	12	14	14	
2700	4	6	8	10	10	12	12	14	14		

ULS Wind Pressure: 1500 Pa, Screw Size: 8 Gauge

Window Width

	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	4	4	4	4	4	4	4	4	4	4	4
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	6	6
1500	4	4	4	4	4	4	6	6	6	6	6
1800	4	4	4	4	6	6	6	6	8	8	8
2100	4	4	4	6	6	6	6	8	8	8	8
2400	4	4	4	6	6	6	8	8	10	10	10
2700	4	4	6	6	6	8	8	10	10	10	

SCREW CAPACITY - N3

ULS Wind Pressure: 1500 Pa, Screw Size: 10 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	6
	1800	4	4	4	4	4	6	6	6	6	6	6
	2100	4	4	4	4	6	6	6	6	6	6	6
	2400	4	4	4	4	6	6	6	6	6	8	8
	2700	4	4	4	6	6	6	6	6	8	8	8

ULS Wind Pressure: 1500 Pa, Screw Size: 12 Gaugeda

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	6	6	6	6	6	6
	2100	4	4	4	4	6	6	6	6	6	6	6
	2400	4	4	4	6	6	6	6	6	6	6	6
	2700	4	4	4	6	6	6	6	6	6	6	6

ULS Wind Pressure: 1500 Pa, Screw Size: 14 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	6	4	4	4	4	4
	2100	4	4	4	4	6	6	4	4	4	4	4
	2400	4	4	4	6	6	6	4	4	4	4	6
	2700	4	4	4	6	6	6	4	4	6	6	6

SCREW CAPACITY - N4

ULS Wind Pressure: 2300 Pa, Screw Size: 6 Gaugeda

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	6	6
	900	4	4	4	4	4	6	6	6	6	8	8
	1200	4	4	4	4	6	6	8	8	8	10	10
	1500	4	4	4	6	6	8	8	10	10	12	12
	1800	4	4	6	6	8	10	10	12	12	14	16
	2100	4	6	6	8	10	10	12	14	14	16	18
	2400	4	6	8	8	10	12	14	16	16	18	20
	2700	4	6	8	10	12	14	16	18	18	20	22

ULS Wind Pressure: 2300 Pa, Screw Size: 8 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	6	6	6
	1200	4	4	4	4	4	4	6	6	6	8	8
	1500	4	4	4	4	6	6	6	8	8	8	10
	1800	4	4	4	6	6	6	8	8	10	10	12
	2100	4	4	4	6	6	8	8	10	10	12	12
	2400	4	4	6	6	8	8	10	12	12	14	14
	2700	4	4	6	8	8	10	12	12	14	14	16

ULS Wind Pressure: 2300 Pa, Screw Size: 10 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	6	6	6
	1500	4	4	4	4	4	4	6	6	6	6	8
	1800	4	4	4	4	4	6	6	6	8	8	8
	2100	4	4	4	4	6	6	6	8	8	10	10
	2400	4	4	4	6	6	6	8	8	10	10	12
	2700	4	4	4	6	6	8	8	10	10	12	12

SCREW CAPACITY - N4

ULS Wind Pressure: 2300 Pa, Screw Size: 12 Gaugeda

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	6
	1500	4	4	4	4	4	4	4	4	6	6	6
	1800	4	4	4	4	4	6	6	6	6	6	8
	2100	4	4	4	4	6	6	6	6	6	8	8
	2400	4	4	4	4	6	6	6	8	8	8	10
	2700	4	4	4	4	6	6	8	8	8	10	10

ULS Wind Pressure: 2300 Pa, Screw Size: 14 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	6
	1800	4	4	4	4	4	6	6	6	6	6	6
	2100	4	4	4	4	6	6	6	6	6	6	6
	2400	4	4	4	4	6	6	6	6	6	8	8
	2700	4	4	4	6	6	6	6	6	8	8	8

ULS Wind Pressure: 2300 Pa, Screw Size: 18 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	6	6	6	6	6	6
	2100	4	4	4	4	6	6	6	6	6	6	6
	2400	4	4	4	4	6	6	6	6	6	6	6
	2700	4	4	4	6	6	6	6	6	6	6	6

SCREW CAPACITY - N5

ULS Wind Pressure: 3300 Pa, Screw Size: 6 Gaugeda

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	6	6	6	8	8
	900	4	4	4	6	6	6	8	8	10	10	12
	1200	4	4	6	6	8	8	10	12	12	14	14
	1500	4	6	6	8	10	10	12	14	16	16	18
	1800	4	6	8	10	12	12	14	16	18	20	22
	2100	4	6	8	10	12	14	16	18	20	22	24
	2400	6	8	10	12	14	16	20	22	24	26	28
	2700	6	8	12	14	16	18	22	24	26	30	32

ULS Wind Pressure: 3300 Pa, Screw Size: 8 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	6	8	8	10	10	10
	1500	4	4	6	6	8	8	10	10	12	12	14
	1800	4	4	6	8	8	10	10	12	14	14	16
	2100	4	6	6	8	10	10	12	14	16	16	18
	2400	4	6	8	10	10	12	14	16	18	18	20
	2700	4	6	8	10	12	14	16	18	20	20	22

ULS Wind Pressure: 3300 Pa, Screw Size: 10 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	6	6	6	6
	1200	4	4	4	4	4	6	6	6	8	8	8
	1500	4	4	4	4	6	6	8	8	8	10	10
	1800	4	4	4	6	6	8	8	10	10	12	12
	2100	4	4	6	6	8	8	10	10	12	12	14
	2400	4	4	6	8	8	10	10	12	14	14	16
	2700	4	6	6	8	10	10	12	14	14	16	18

SCREW CAPACITY - N5

ULS Wind Pressure: 3300 Pa, Screw Size: 12 Gaugeda

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	6
	1200	4	4	4	4	4	4	4	6	6	6	6
	1500	4	4	4	4	4	6	6	6	8	8	8
	1800	4	4	4	4	6	6	6	8	8	8	10
	2100	4	4	4	6	6	6	8	8	10	10	12
	2400	4	4	4	6	6	8	8	10	10	12	12
	2700	4	4	6	6	8	8	10	10	12	12	14

ULS Wind Pressure: 3300 Pa, Screw Size: 14 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	6	6
	1500	4	4	4	4	4	4	4	6	6	6	6
	1800	4	4	4	4	4	6	6	6	6	8	8
	2100	4	4	4	4	6	6	6	8	8	8	10
	2400	4	4	4	4	6	6	8	8	8	10	10
	2700	4	4	4	6	6	8	8	8	10	10	12

ULS Wind Pressure: 3300 Pa, Screw Size: 18 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	6
	1800	4	4	4	4	4	6	6	6	6	6	6
	2100	4	4	4	4	6	6	6	6	6	6	6
	2400	4	4	4	4	6	6	6	6	6	8	8
	2700	4	4	4	6	6	6	6	6	8	8	8

SCREW CAPACITY - N6

ULS Wind Pressure: 4500 Pa, Screw Size: 8 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	6	6	6	8	8
	900	4	4	4	6	6	6	8	8	10	10	10
	1200	4	4	6	6	8	8	10	10	12	14	14
	1500	4	6	6	8	10	10	12	14	14	16	18
	1800	4	6	8	10	10	12	14	16	18	20	20
	2100	4	6	8	10	12	14	16	18	20	22	24
	2400	6	8	10	12	14	16	18	20	22	26	28
	2700	6	8	10	14	16	18	20	24	26	28	30

ULS Wind Pressure: 4500 Pa, Screw Size: 10 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	6	8	8	10	10	10
	1500	4	4	6	6	8	8	10	10	12	12	14
	1800	4	4	6	8	8	10	10	12	14	14	16
	2100	4	6	6	8	10	12	12	14	16	16	18
	2400	4	6	8	10	10	12	14	16	18	20	20
	2700	4	6	8	10	12	14	16	18	20	22	24

ULS Wind Pressure: 4500 Pa, Screw Size: 12 Gaugeda

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	6	6	6	6
	1200	4	4	4	4	4	6	6	6	8	8	8
	1500	4	4	4	6	6	6	8	8	10	10	10
	1800	4	4	4	6	6	8	8	10	10	12	12
	2100	4	4	6	6	8	10	10	12	12	14	14
	2400	4	4	6	8	8	10	12	12	14	16	16
	2700	4	6	6	8	10	12	12	14	16	18	18

SCREW CAPACITY - N6

ULS Wind Pressure: 4500 Pa, Screw Size: 14 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	6	6	6
	1200	4	4	4	4	4	4	6	6	6	6	8
	1500	4	4	4	4	6	6	6	8	8	8	10
	1800	4	4	4	6	6	6	8	8	10	10	10
	2100	4	4	4	6	6	8	8	10	10	12	12
	2400	4	4	6	6	8	8	10	10	12	12	14
	2700	4	4	6	8	8	10	10	12	14	14	16

ULS Wind Pressure: 4500 Pa, Screw Size: 18 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	6	6
	1500	4	4	4	4	4	4	4	6	6	6	6
	1800	4	4	4	4	4	6	6	6	6	8	8
	2100	4	4	4	4	6	6	6	6	8	8	8
	2400	4	4	4	6	6	6	6	8	8	10	10
	2700	4	4	6	6	6	6	8	8	10	10	12

SCREW CAPACITY - C1

ULS Wind Pressure: 2000 Pa, Screw Size: 6 Gageda

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	6
	900	4	4	4	4	4	4	6	6	6	6	8
	1200	4	4	4	4	6	6	6	8	8	8	10
	1500	4	4	4	6	6	8	8	8	10	10	12
	1800	4	4	6	6	8	8	10	10	12	12	14
	2100	4	4	6	8	8	10	10	12	14	14	16
	2400	4	6	6	8	10	10	12	14	14	16	18
	2700	4	6	8	8	10	12	14	14	16	18	20

ULS Wind Pressure: 2000 Pa, Screw Size: 8 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	6	6
	1200	4	4	4	4	4	4	4	6	6	6	6
	1500	4	4	4	4	4	6	6	6	8	8	8
	1800	4	4	4	4	6	6	6	8	8	10	10
	2100	4	4	4	6	6	6	8	8	10	10	12
	2400	4	4	4	6	6	8	8	10	10	12	12
	2700	4	4	6	6	8	8	10	10	12	14	14

ULS Wind Pressure: 2000 Pa, Screw Size: 10 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	6	6
	1500	4	4	4	4	4	4	4	6	6	6	6
	1800	4	4	4	4	4	6	6	6	6	8	8
	2100	4	4	4	4	6	6	6	6	8	8	8
	2400	4	4	4	6	6	6	6	8	8	10	10
	2700	4	4	4	6	6	6	8	8	10	10	10

SCREW CAPACITY - C1

ULS Wind Pressure: 2000 Pa, Screw Size: 12 Gaugeda

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	6	6
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	6	6	6	6	6	6	8
2400	4	4	4	4	6	6	6	6	6	8	8
2700	4	4	4	6	6	6	6	6	8	8	8

ULS Wind Pressure: 2000 Pa, Screw Size: 14 Gauge

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	4	4
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	6	6	6	6	6	6	6
2400	4	4	4	6	6	6	6	6	6	6	6
2700	4	4	4	6	6	6	6	6	6	6	8

SCREW CAPACITY - C2

ULS Wind Pressure: 3000 Pa, Screw Size: 6 Gaugeda

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	6	6	6	6	8
900	4	4	4	4	6	6	8	8	8	10	10
1200	4	4	6	6	8	8	10	10	12	12	14
1500	4	4	6	8	8	10	12	12	14	16	16
1800	4	6	8	8	10	12	14	14	16	18	20
2100	4	6	8	10	12	14	16	18	20	20	22
2400	6	8	10	12	14	16	18	20	22	24	26
2700	6	8	10	12	14	18	20	22	24	26	28

ULS Wind Pressure: 3000 Pa, Screw Size: 8 Gauge

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	6	6
900	4	4	4	4	4	4	6	6	6	8	8
1200	4	4	4	4	6	6	6	8	8	10	10
1500	4	4	4	6	6	8	8	10	10	12	12
1800	4	4	6	6	8	8	10	10	12	14	14
2100	4	4	6	8	8	10	12	12	14	16	16
2400	4	6	6	8	10	12	12	14	16	18	18
2700	4	6	8	10	10	12	14	16	18	20	20

ULS Wind Pressure: 3000 Pa, Screw Size: 10 Gauge

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	6	6	6
1200	4	4	4	4	4	4	6	6	6	8	8
1500	4	4	4	4	6	6	6	8	8	8	10
1800	4	4	4	6	6	6	8	8	10	10	10
2100	4	4	4	6	6	8	8	10	10	12	12
2400	4	4	6	6	8	8	10	10	12	14	14
2700	4	4	6	8	8	10	10	12	14	14	16

SCREW CAPACITY - C2

ULS Wind Pressure: 3000 Pa, Screw Size: 12 Gaugeda

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	6	6	6
1500	4	4	4	4	4	4	6	6	6	8	8
1800	4	4	4	4	4	6	6	6	8	8	8
2100	4	4	4	4	6	6	8	8	8	10	10
2400	4	4	4	6	6	8	8	8	10	10	12
2700	4	4	4	6	6	8	8	10	10	12	12

ULS Wind Pressure: 3000 Pa, Screw Size: 14 Gauge

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	6
1500	4	4	4	4	4	4	4	6	6	6	6
1800	4	4	4	4	4	6	6	6	6	6	8
2100	4	4	4	4	6	6	6	6	8	8	8
2400	4	4	4	4	6	6	6	8	8	8	10
2700	4	4	4	6	6	6	8	8	10	10	10

ULS Wind Pressure: 3000 Pa, Screw Size: 18 Gauge

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	4	4
1500	4	4	4	4	4	4	4	4	4	4	4
1800	4	4	4	4	4	6	6	6	6	6	6
2100	4	4	4	4	6	6	6	6	6	6	6
2400	4	4	4	6	6	6	6	6	6	6	6
2700	4	4	6	6	6	6	6	6	6	8	8

SCREW CAPACITY - C3

ULS Wind Pressure: 4400 Pa, Screw Size: 8 Gauge

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	6	6	6	6	8
900	4	4	4	6	6	6	8	8	10	10	10
1200	4	4	6	6	8	8	10	10	12	12	14
1500	4	6	6	8	10	10	12	14	14	16	18
1800	4	6	8	10	10	12	14	16	18	18	20
2100	4	6	8	10	12	14	16	18	20	22	24
2400	6	8	10	12	14	16	18	20	22	24	26
2700	6	8	10	14	16	18	20	22	26	28	30

ULS Wind Pressure: 4400 Pa, Screw Size: 10 Gauge

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	6	6	6
900	4	4	4	4	4	6	6	6	8	8	8
1200	4	4	4	6	6	6	8	8	10	10	10
1500	4	4	6	6	8	8	10	10	12	12	14
1800	4	4	6	8	8	10	10	12	14	14	16
2100	4	6	6	8	10	10	12	14	16	16	18
2400	4	6	8	10	10	12	14	16	18	18	20
2700	4	6	8	10	12	14	16	18	20	22	22

ULS Wind Pressure: 4400 Pa, Screw Size: 12 Gaugeda

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	6	6	6	6
1200	4	4	4	4	4	6	6	6	8	8	8
1500	4	4	4	6	6	6	8	8	10	10	10
1800	4	4	4	6	6	8	8	10	10	12	12
2100	4	4	6	6	8	8	10	12	12	14	14
2400	4	4	6	8	8	10	12	12	14	16	16
2700	4	6	6	8	10	12	12	14	16	16	18

SCREW CAPACITY - C3

ULS Wind Pressure: 4400 Pa, Screw Size: 14 Gauge
Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	6	6
1200	4	4	4	4	4	4	6	6	6	6	8
1500	4	4	4	4	4	6	6	6	8	8	8
1800	4	4	4	4	6	6	8	8	8	10	10
2100	4	4	4	6	6	8	8	10	10	12	12
2400	4	4	6	6	8	8	10	10	12	12	14
2700	4	4	6	6	8	10	10	12	12	14	16

ULS Wind Pressure: 4400 Pa, Screw Size: 18 Gauge

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	4	4	4
900	4	4	4	4	4	4	4	4	4	4	4
1200	4	4	4	4	4	4	4	4	4	6	6
1500	4	4	4	4	4	4	4	6	6	6	6
1800	4	4	4	4	4	6	6	6	6	8	8
2100	4	4	4	4	6	6	6	6	8	8	8
2400	4	4	4	4	6	6	6	8	8	10	10
2700	4	4	4	6	6	6	8	8	10	10	10

SCREW CAPACITY - C4

ULS Wind Pressure: 6000 Pa, Screw Size: 8 Gauge

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	6	6	6	8	8	10	10
900	4	4	6	6	8	8	10	10	12	14	14
1200	4	6	6	8	10	12	12	14	16	18	18
1500	4	6	8	10	12	14	16	18	20	22	22
1800	6	8	10	12	14	16	18	20	22	26	28
2100	6	8	12	14	16	18	22	24	26	30	32
2400	6	10	12	16	18	22	24	28	30	34	36
2700	8	10	14	18	20	24	28	30	34	38	40

ULS Wind Pressure: 6000 Pa, Screw Size: 10 Gauge

Window Width

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	6	6	6	8	8
900	4	4	4	6	6	6	8	8	10	10	10
1200	4	4	6	6	8	8	10	10	12	14	14
1500	4	6	6	8	10	10	12	14	14	16	18
1800	4	6	8	10	10	12	14	16	18	20	20
2100	4	6	8	10	12	14	16	18	20	22	24
2400	6	8	10	12	14	16	18	20	24	26	28
2700	6	8	10	14	16	18	20	24	26	28	30

ULS Wind Pressure: 6000 Pa, Screw Size: 12 Gauge

Window Height	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
600	4	4	4	4	4	4	4	4	6	6	6
900	4	4	4	4	4	6	6	6	8	8	8
1200	4	4	4	6	6	8	8	8	10	10	12
1500	4	4	6	6	8	8	10	10	12	14	14
1800	4	4	6	8	8	10	12	12	14	16	16
2100	4	6	8	8	10	12	14	14	16	18	20
2400	4	6	8	10	12	14	16	16	18	20	22
2700	4	6	8	10	12	14	16	18	20	22	24

SCREW CAPACITY - C4

ULS Wind Pressure: 6000 Pa, Screw Size: 14 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	6
	900	4	4	4	4	4	4	6	6	6	6	8
	1200	4	4	4	4	6	6	6	8	8	8	10
	1500	4	4	4	6	6	8	8	10	10	10	12
	1800	4	4	6	6	8	8	10	10	12	12	14
	2100	4	4	6	8	8	10	10	12	14	14	16
	2400	4	6	6	8	10	10	12	14	16	16	18
	2700	4	6	8	10	10	12	14	16	18	18	20

ULS Wind Pressure: 6000 Pa, Screw Size: 18 Gauge

		Window Width										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
Window Height	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	6	6
	1200	4	4	4	4	4	4	4	6	6	6	6
	1500	4	4	4	4	4	6	6	6	8	8	8
	1800	4	4	4	4	6	6	6	8	8	10	10
	2100	4	4	4	6	6	8	8	8	10	10	12
	2400	4	4	4	6	6	8	8	10	10	12	12
	2700	4	4	6	6	8	8	10	12	12	14	14

FURTHER INFORMATION

Australian Building Codes Board
www.abcb.gov.au

Australian Institute of Building Surveyors
www.aibs.com.au

Australian Glass and Window Association (AGWA)
www.agwa.com.au

BUILDdata - Building Products Information Service
www.buildata.com.au

Building Services Authority - Queensland
www.bsa.qld.gov.au

Building Commission - Victoria
www.buildingcommission.com.au

Building Commission - Western Australia
www.buildingcommission.wa.gov.au

Department of Planning & Local Government - South Australia
www.planning.sa.gov.au

Housing Industry Association (HIA)
www.buildingonline.com.au

Master Builders Association
www.masterbuilders.com.au

National Association of Steel Housing
www.nash.asn.au

Northern Territory Government
www.nt.gov.au

Office of Fair Trading & Home Building Services
www.fairtrading.nsw.gov.au

Workplace Standards - Tasmania
www.wst.tas.gov.au

Australian Glass and Window Association

a: Suite 1, Level 1, building 1
20 Bridge street Pymble, NSW 2073

p: 02 9498 2768 **f:** 02 9498 3816

e: info@agwa.com.au

www.agwa.com.au



AUSTRALIAN
**GLASS &
WINDOW**
ASSOCIATION