

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND BUILDING PERMI



This is to certify that CITY OF PORTLAND

Job ID: 2011-03-611-ALTCOMM

Located At 432 STEVENS Ave

CBL: 175 - - B - 002 - 001 - - - - -

has permission to Construct 8.5' x 12.5' Greenhouse

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise	A final inspection must be completed by owner before this building or part thereof is occupied. If a
closed-in. 48 HOUR NOTICE IS REQUIRED.	certificate of occupancy is required, it must be
C	ALC)
Fire Prevention Officer	Code Enforcement Officer / Plan Reviewer
THIS CARD MUST BE POSTED ON THE S	TREET SIDE OF THE PROPERTY.

PENALTY FOR REMOVING THIS CAR

9 Congress Street, 04101	Tel: (207) 874-8703,	FAX: (207) 8716	i	T ERIVITI	ISSUED 1
Job No: 2011-03-611-ALTCOMM	Date Applied: 3/11/2011		CBL: 175 B - 002 - 001		MAR 2 !	9 2011
Location of Construction: 432 STEVENS AVE	Owner Name: OF PORTLAND CITY Longfellow Elementary S	chool	Owner Address: 389 CONGRESS S PORTLAND, ME -	r MAINE 04101	CITY OF PO	Phone:
Business Name:	Contractor Name:		Contractor Addr	ess:		Phone:
Lessee/Buyer's Name:	Phone:		Permit Type: BLDG - Building			Zone: R-5
Past Use: Longfellow Elementary School	Proposed Use: Same: Longfellow E School – To add a 8. exterior greenhouse	lementary 5 x 12.6'	Cost of Work: 3,000.00 Fire Dept:	Approved Denied N/A	IBC 2007	CEO District: Inspection: Use Group: Type:
Proposed Project Description 404 stevens Longfellow Elementa	n: ry- greenhousee		Pedestrian Activ	ities District (P.A.D.)	aw	
Permit Taken By: Lannie				Zoning Approva	1	
 This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building Permits do not include plumbing, septic or electrial work. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work. 		Special Zo Shorelan Wetlands Flood Zo Subdivis Site Plan Maj Date:	one or Reviews d s one ion otemptim oll-201 Min _MM	Zoning Appeal Variance Miscellaneous Conditional Use Interpretation Approved NAMATH Denied Deni	Historic Pr Not in Dis Does not I Requires I Approved Denied Date:	reservation st or Landmark Require Review Review w/Conditions

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE

BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 or 874-8693 (ONLY) or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.
- 1. Setback inspection required.
- 2. Final inspection required.

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCU0PIED.





Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Director of Planning and Urban Development Penny St. Louis

Job ID: 2011-03-611-ALTCOMM

Located At: 432 STEVENS

CBL: <u>175 - - B - 002 - 001 - - - - -</u>

Conditions of Approval:

Building

- 1. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
- 2. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.

Job Summary Report Job ID: 2011-03-611-ALTCOMM

Report generated	on Mar 22, 20	011 9:25:09 AM							Page
Job Type:		Adds/Alter Commercial	Job Desc	ription:	404 stever Elementar	ns Longfellow y	Job Year:	20	11
Building Job S	tatus Code:	Initiate Plan Review	/ Pin Value	2:	899		Tenant Name	e: Loi Ele	ngfellow mentary
Job Applicatio	n Date:		Public Bu	uilding Flag:	Y		Tenant Num	ber:	
Estimated Val	ue:	3,000	Square F	ootage:					
Related Partie	s:		OF CITY				Property Ow	ner	
Job Charges									
Fee Code Description	Charge Amount	Permit Charge	Net Charge Amount	Payment Date	Receipt Number	Payment Amount	Payment Adjustment Amount	Net Payment Amount	Outstanding Balance

Location ID: 24376

						Location	n Details			
Iternate Id 27125	Parcel 1 175 B 00	Number (02 001	Census Tract	GISX (GISY GIS	Z GIS Reference	Longitude Lati -70.295716 43.67	zese 22841	2011-20	ſ
				Locati	on Type S	ubdivision Code S	ubdivision Sub Co	de Related Persons	Address(es)	
				1					432 STEVENS AVENUE NO	RTH
Location U Code	se	Variance Code	Use Zone	Code	Fire Zone Code	Inside Outsid Code	le District Code	General Locatio Code	n Inspection Area Code	Jurisdiction Code
OVERNMENT	AL		TON	DE					DISTRICT 7	DEERING-
			APPLICABL	EKJ						RUSLINUNT
tructura		10005050	APPLICABLI	P7125	X	Structur	re Details			
Structure:	Loc id C Type Coc)0005050 de:	APPLICABLI	27125	X	Structur	re Details			
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Permit #: 20112011

bound

Permit Data

in Que

Job Summary Report Job ID: 2011-03-611-ALTCOMM

Report generated on Mar 22, 2011 9:25:09 AM

Page 2

Location Id Structure Description Permit Status Permit Description Issue Date Reissue Date Expiration Date

24376 Longfellow Elemenatary Initialized 8.5' x 12.5' Greenhouse

Inspection Details

Inspection Id Inspection Type Inspection Result Status Inspection Status Date Scheduled Start Timestamp Result Status Date Final Inspection Flag

Fees Details								
Fee Code Description	Charge Amount	Permit Charge Adjustment	Permit Charge Adj Remark	Payment Date	Receipt Number	Payment Amount	Payment Adjustment Amount	Payment Adj Comment
Job Valuation Fees	\$50.00							

	Cle.	林	1660	\$ 50	.00
Q4SU Q4ESU	General Bu	ilding	Permit A	pplicat	ion
TWORK	If you or the property owner owes TAND property within the City, payment array	real estate of agements mi	personal proper ist be made befor	ty taxes or user re permits of an Uc y	charges on any w kind are accepted.
	Location/Address of Construction: Longfe	llaw Eler	mentary Sch	201,432 5	stevens are 04103
	Total Square Footage of Proposed Structure/A	rea	Square Footage c	f Lot (2.34	a)
A	Tax Assessor's Chart, Block & Lot hart# Block# Lot# 175 B	Applicant * <u>n</u> Name Gle Address LO City: State *	nust be owner, Les an Reynolds ngfellaw Ele 2 stevens	see or Buyer* Carrigan Mentany Ave	Telephone: school: 874-8195 Cell: 809-9788
	Lessee/DBA (If Applicable)	Owner (if di Name CIT	fferent from Appli	cant) Co and and and and and and and and and and	ost Of rk: \$ 2,900 se: \$ 2,900 + labor value of O Fee: \$ N/4?
	· ·	City, State &	Zip Dawn Car Princip	naragi or ugan To	tal Fee: \$ 50.4
	Current legal use (i.e. single family) If vacant, what was the previous use? Proposed Specific use: <u>greenhouse</u> Is property part of a subdivision? <u>po</u> Project description: Assemble a pre- existing fenced courtyard greenhouse to be anchore	of /ou fabrica No fai d in stor	yes, please name ated green undation be trench	nhouse (required	(no canc. slab). es needed
	Contractor's name: Longfellow Address: 432 Stevens Ave	Parent	Teacher	organi	Zation Gian
	City, State & ZipRE Who should we contact when the permit is read Mailing address: 432RE	UN CIENR	B eynolds/car	Teleph Teleph Teleph A S	hone: <u>809-97889161</u> hone: <u>874-8195</u> 50001
,	Please submit all of the information do so will result in the	outlined or automatic	n the applicabl denial of your	e Checklist. permit.	Failure to
I n tl	n order to be sure the City fully understands the hay request additional information prior to the iss his form and other applications visit the Inspectio	full scope of t suance of a pe ons Division or	he project, the Plan rmit. For further u n-line at <u>www.portlan</u>	nning and Develor formation or to <u>admaine.gov</u> , or st	opment Department download copies of op by the Inspections

Division office, room 315 City Hall or call 874-8703. I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

provisions of the codes applicable to this permit.		RECEIVED
Signature: Cherry Ids	Date: 3-11-11	110 1 1 0011
551 · · · ·	ANTRY 1	MAH ZUII

This is not a permit; you may not commence ANY work until the permit is issue

Dept. of Building Inspection City of Portland Maine

CITY CONTRACTOR	Certificate of De	sign Application	N/A Hessthan \$50,000
From Designer:			n ve 1 se
Date:			
Job Name:			
Address of Construction:			
Cons	2003 International truction project was designed to the	Building Code e building code criteria listed below	7:
Building Code & Year	Use Group Classification	n (s)	
Type of Construction			
Will the Structure have a Fire su	ppression system in Accordance with	Section 903.3.1 of the 2003 IRC	
Is the Structure mixed use?	If yes, separated or non sep	arated or non separated (section 302.	3)
Supervisory alarm System?	Geotechnical/Soils report r	required? (See Section 1802.2)	
Structural Design Calculation	15	Live load red	uction
Submitted for a	I structural members $(106.1 - 106.11)$	Roof <i>live</i> load	s (1603 1.2, 1607.11)
	a structural memoers (100.1 – 100.11)	Roof snow lo	ads (1603.7.3, 1608)
Design Loads on Constructio	Documents (1603)	Ground snow	load, Pg (1608.2)
Floor Area Use	Loads Shown	1f $Pg > 10$ psf,	flat-roof snow load _B
		$ f P_g > 10 \text{ psf},$	snow exposure factor, 7
		If $P_P > 10 \text{ psf}$.	snow load importance factor.
		Roof thermal f	actor (1608.4)
Wind loads (1603 1 4 1609)		Sloped toot she	5 winad, $p_s(1608.4)$
Design option uti	lived (1600 1 1 1600 6)	Seismic design	category (1616.3)
Design option an Basic wind speed	(1809.3)	Basic seismic fo	bree resisting system (1617.6.2)
Building category	and wind importance Factor, L.		lication coefficient, _R , and
Wind exposure of	table 1604.5, 1609.5)	deflection amp	philication factor $(d (1617.6.2))$
Internal pressure co	efficient (ASCE 7)	Analysis procee	dure (1616.6, 1617.5)
Component and cla	dding pressures (1609.1.1, 1609.6.2.2)	Design base sh	ear (1617.4, 16175.5.1)
Main force wind pre	essures (7603.1 1, 1609.6.2.1)	Flood loads (1803.1.6, 1612)	
Earth design data (1603.1.5, 1	614-1623)	Flood Hazard a	area (1612.3)
Design option uti	lized (1614 1)	Elevation of st	ructure
Seismic use group	o ("Category")	Other loads	
Spectral response	coefficients, SD: & SDI (1615.1)	Concentrated I	oads (1607.4)
Site class (1615.1.5)	Partition loads	(1607.5)
		Misc. loads (Fa 1607 12, 1607.13	ble 1607.8, 1607.6.1, 1607.7, , 1610, 1611, 2404



Commercial Interior & Change of Use Permit Application Checklist

All of the following information is required and must be submitted. Checking off each item as you prepare your application package will ensure your package is complete and will help to expedite the permitting process.

One (1) complete set of construction drawings must include:

Note: Construction documents for costs in excess of \$50,000.00 must be prepared by a Design Professional and bear their seal.

- Cross sections w/framing details see catalog cut
- Detail of any new walls or permanent partitions
- □ Floor plans and elevations See catalog aut
- □ Window and door schedules see catalog cut
- \Box Complete electrical and plumbing layout. N/A
- \square Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment or other types of work that may require special review N/A
- □ Insulation R-factors of walls, ceilings, floors & U-factors of windows as per the IEEC 2003 N/A
- \Box Proof of ownership is required if it is inconsistent with the assessors records.
- Reduced plans or electronic files in PDF format are required if originals are larger than 11" x 17".N/A
- Der State Fire Marshall, all new bathrooms must be ADA compliant. N/A

Separate permits are required for internal and external plumbing, HVAC & electrical installations.

For additions less than 500 sq. ft. or that does not affect parking or traffic, a site plan exemption should be filed including:

- □ The shape and dimension of the lot, footprint of the existing and proposed structure and the distance from the actual property lines.
- □ Location and dimensions of parking areas and driveways, street spaces and building frontage.
- Dimensional floor plan of existing space and dimensional floor plan of proposed space.

A Minor Site Plan Review is required for any change of use between 5,000 and 10,000 sq. ft. (cumulatively within a 3-year period)

Fire Department requirements.

The following shall be submitted on a separate sheet:

- □ Name, address and phone number of applicant **and** the project architect.
- □ Proposed use of structure (NFPA and IBC classification)
- □ Square footage of proposed structure (total and per story)
- Existing and proposed fire protection of structure. None
- □ Separate plans shall be submitted for
 - a) Suppression system
 - b) Detection System (separate permit is required)
- □ A separate Life Safety Plan must include:
 - a) Fire resistance ratings of all means of egress
 - b) Travel distance from most remote point to exit discharge
 - c) Location of any required fire extinguishers
 - d) Location of emergency lighting
 - e) Location of exit signs
 - f) NFPA 101 code summary
- \Box Elevators shall be sized to fit an 80" x 24" stretcher.

For questions on Fire Department requirements call the Fire Prevention Officer at (207) 874-8405.

Please submit all of the information outlined in this application checklist. If the application is incomplete, the application may be refused.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

Permit Fee: \$30.00 for the first \$1000.00 construction cost, \$10.00 per additional \$1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.

SURGAN
I AND E
0.000
ORTLAN

(SEAL)

Accessibility Building Code Certificate

N/A The courty and where the greenhause will be located is not acceptible .

Designer:	
Address of Project:	
Nature of Project:	

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.

Signatu	re:
Title:	
Firm:	
Address	5:
Phone:	

4

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the *2003 International Building Code* and local amendments.

	Signature:	
	Title:	
(SEAL)	Firm:	
	Address:	
	Phone:	

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



Scale: 1" = 40'

Longfellow Elementary School 432 Stevens Avenue Portland, ME 04103

March 10, 2011

Rion GH46 Greenhouse Kit 8x12

0 item (\$0.00)

O

Gift Certificates Accessories Cold Frame Lean-To Metal Frame Wood Frame **Plastic Frame** Composters

Under \$1000 \$1000-\$2000 Over \$2000 Specials

Juliana **Cross Country** EcoGrow EasyGrow Rion Sunshine PolyTex Riga Halls SunGlo FlowerHouse National Guarden



Gronomics





Send to a Friend!

Product Description

Our cleverly engineered Rion Greenhouse snaps together, requiring no tools. The barn style design provides plenty of headroom and dual roof vent help to circulate air throughout the greenhouse. Double walled polycarbonate panels diffuse the light and help insulate the greenhouse.

- · Resin frame is maintenance free
- 7 Year Limited Warranty against
- manufacturer's defects
- Greenhouses are FULLY insulated (aluminum frames are not)
- UV coated polycarbonate glazing for better sun protection, light diffusion, heat insulation, strength and safety
- Hinged doors easier to use and more durable than sliding
- Easy push fit assembly no tools required
- UPS shippable for quick no hassle delivery
- Expandable add a section now or later
- As strong as aluminum if not stronger
- Adjustable roof windows
- Detailed instruction manual
- All the hardware that you need nothing else to buy



Customer Reviews:

Rion GH46 Greenhouse Kit 8x12

Price: \$2,239.00 Sale: \$1,679.00

ADD TO CART >

Due to contractual obligations, we cannot offer our usual "Double the Difference" price guarantee on Rion Greenhouses.



Specifications

Shipping	Free in lower 48 states			
Frame	Resin			
Covering	4mm twin wall polycarbonate			
Vents	2 roof vents and 1 rear window louver			
Base	Optional - available below			
Manuals	Rion Hobby Greenhouse Manual			
Warranty	7 Year			
Dimensions	8'6" W x 12' L x 6'10" H			

Rion GH46 Greenhouse Base - ships free with greenhouse Price: \$432.00 Sale: \$324.00 | ADD TO CART >

Rion 4 Foot Double Extension for GH4, GH6, and GH8 Greenhouse Kits Price: \$499.00 Sale: \$399.99 | ADD TO CART >

Administrative Authorization Application Portland, Maine Planning and Urban Development Department, Planning Division	
PROJECT NAME: Longfellow Elementary School Greenhouse	
PROJECT ADDRESS: 432 STEVENS AVE, 04103 CHART/BLOCK/LOT: 175/8/2	
APPLICATION FEE: \$50.00) 175/0/1	
PROJECT DESCRIPTION: (Please Attach Sketch/Plan of the Proposal/Development) (Assemble) Construct a pre-fabricated Greenhouse (9.5'x12.5') within existing fenced cour (Poet's Hideaway Learning garden) No foundation required, Greenhouse to be CONTACT INFORMATION: OWNER/APPLICANT (PRINCIPAL) Name: Glen Reynolds (facultis) Name: Any Segal	tyr or)
Address: Longielian Etementary Address: 12 Alba SI	
Work #: * 974 - 8195 Work #: 207-846-0757	
Glen - Cell #: 809 - 9788 Cell #:	
Fax #: Fax #:	
Home #: 207 - 756 - 7598	
E-mail: GRE@portlandmaine.gov E-mail: segal@tjda.net	
Criteria for an Adminstrative Authorizations:Applicant's Assessment Planning Division(see section 14-523(4) on pg .2 of this appl.)Y(yes), N(no), N/AY(yes), N(no), N/A	
a) Is the proposal within existing structures? W/in ex. courtyd Y - not in bolly NO - within course	ty
b) Are there any new buildings, additions, or demolitions?	
c) Is the footprint increase less than 500 sq. ft.? (107 sf)	
d) Are there any new curb cuts, driveways or parking areas?	
e) Are the curbs and sidewalks in sound condition?	
f) Do the curbs and sidewalks comply with ADA? 24 2011	
g) Is there any additional parking?	
h) Is there an increase in traffic? Dept. of Building Inspections N	
i) Are there any known stormwater problems? of Portland Maine N	0
j) Does sufficient property screening exist?	e
k) Are there adequate utilities? no utilities necoco articles	
I) Are there any zoning violations?	
m) Is an emergency generator located to minimize noise?	
n) Are there any noise, vibration, glare, fumes or other impacts?	
Signature of Applicant: Date: Date: 3-11-11	

Planning Division Use Only

Authorization Grantedu

Partial Exemption

Exemption Denied

Standard Condition of Approval: The applicant shall obtain all required City Permits, including building permits from the Inspection Division (Room 315, City Hall (874-8703)) prior to the start of any construction.

IMPORTANT NOTICE TO APPLICANT: The granting of an Administrative Authorization to exempt a development from site plan review <u>does not exempt</u> this proposal fro other approvals or permits, nor is it an authorization for construction. You should first check with the Building Inspections Office, Room 315, City Hall (207)874-8703, to determine what other City permits, such as a building permit, will be required.

PROVISION OF PORTLAND CITY CODE 14-523 (SITE PLAN ORDINANCE) RE: Administrative Authorization

Sec. 14-523 (b). Applicability

No person shall undertake any development identified in Section 14-523 without obtaining a site plan improvement permit under this article. (c) Administrative Authorization. Administrative Authorization means the Planning Authority may grant administrative authorization to exempt a development proposal from complete or partial site plan review that meets the standards below, as demonstrated by the applicant.

- 1. The proposed development will be located within existing structures, and there will be no new buildings, demolitions, or building additions other than those permitted by subsection b of this section;
- 2. Any building addition shall have a new building footprint expansion of less than five hundred (500) square feet;
- 3. The proposed site plan does not add any new curb cuts, driveways, or parking areas; the existing site has no more than one (1) curb cut and will not disrupt the circulation flows and parking on-site; and there will be no drive-through services provided;
- 4. The curbs and sidewalks adjacent to the lot are complete and in sound condition, as determined by the public works authority, with granite curb with at least four (4) inch reveal, and sidewalks are in good repair with uniform material and level surface and meet accessibility requirements of the Americans with Disabilities Act;
- 5. The use does not require additional or reduce existing parking, either on or off the site, and the project does not significantly increase traffic generation;
- 6. There are no known stormwater impacts from the proposed use or any existing deficient conditions of stormwater management on the site;
- 7. There are no evident deficiencies in existing screening from adjoining properties; and
- 8. Existing utility connections are adequate to serve the proposed development and there will be no disturbance to or improvements within the public right-of-way.
- 9. There are no current zoning violations;
- 10. Any emergency generators are to be located to minimize noise impacts to adjoining properties and documentation that routine testing of the generators occur on weekdays between the hours of 9 a.m. to 5 p.m. Documentation pertaining to the noise impacts of the emergency generator shall be submitted; and
- 11. There is no anticipated noise, vibration, glare, fumes or other foreseeable impacts associated with the project.
- a. Filing the Application. An applicant seeking an administrative authorization under this subsection shall submit an administrative authorization application for review, detailing the site plan with dimensions of proposed improvements and distances from all property lines, and stating that the proposal meets all of the provisions in standards 1-11 of Section 14-423 (b)1. The application must be accompanied by an application fee of \$50.
- b. Review. Upon receipt of such a complete application, the Planning Authority will process it and render a written decision of approval, approval with conditions or denial, with all associated findings.
- c. **Decision.** If a full administrative authorization is granted, the application shall be approved without further review under this article, and no performance guarantee shall be required. In the event that the Planning Authority determines that standards a and b of Section 14-523 (b) (1) and at least four (4) of the remaining standards have been met, the Planning Authority shall review the site plan according to all applicable review standards of Section 14-526 that are affected by the standards in this subsection that have not been met. If an exemption or partial exemption from site plan review is not granted, the applicant must submit a site plan application that will undergo a full review by the Planning Board or Planning Authority according to the standards of Section 14-526.





Lay Out the Greenhouse Frame

Decide in which direction the door will face and place the parts on the prepared foundation or wood deck.

Note: If you are using a modular base or other foundation option (see page 3) assemble the base on a flat surface (such as a driveway or a garage) and them move it into position when you are done.

• Slide the SR1 profiles into the two B2 frame profiles that will be used for the doorway.

2 Place the two prepared B2 frame profiles on either side of the 15 connector.

• Place a 2D connector on both sides.

• Place the other parts of the frame in place and push them together. Make sure that the channel of the 2D

connectors faces outward. Each base connector is stamped with an arrow pointing to the outside direction. **O** Lock the frame together with pins.



Secure the Frame to the Foundation

Make sure you have the proper hardware before beginning this step. (See page 3.)

Note: If you are using a modular base and filler you may assemble the greenhouse on a hard surface and move it to its final position when you have finished. Make sure that there are no obstructions between the assembly area and the final position.



Concrete Foundation)

• Mark the foundation through each connector using a scribe or screw.

- [®] Carefully move the frame and then drill holes using an appropriate masonry bit. Insert concrete anchors or expansion anchors (not supplied) in each hole.
- Move the frame back into place. Make sure that it is still perfectly rectilinear. Secure the screws/anchors in place.



Modular Base, Wood Deck, or Treated Foundation



Insert screws into the frame connector holes and secure them to the base.

Note: If you have purchased the Modular Base all necessary hardware is included.

Assemble the Roof Pediments

• Put ST7 couplers on the PN8R and PN8L pediment panel halves as shown. The tops of each coupler are trimmed to match the angle of the panel.

Note: The outside surface of the panels have special UV protection, indicated by the logo and the plastic identification strip. Remove plastic ID strips when as panels are locked in place.

❷ Slide the two pediment panel halves together.

- Assemble all parts of the front pediment except for the 7A connector and the R8 profile. Take care that the internal metal strengthening bar in the E12 profile remains in place.
- OSlide the assembled PN8R/PN8L pediment panel into the open space of the pediment.
- Complete the front pediment with the 7A connector and the R8 profile, taking advantage of the flexibility of the profiles.
- O Lock the pediment in place using pins and remove the ID strips from the panels.



Complete Doorway Pediment

- Attach the E4R and R2 profiles to the lower right pediment. The E4R profile has a sticker indicating the up direction.
- ❷ Slide the PN5R panel in place. Make sure that the plastic ID strip faces out.
- Connect the 4A and 09 connectors to an E2 profile and put it in place taking advantage of the flexibility of the profiles.
- Lock the panel with pins.
- Assemble the lower left pediment in the same way. Note the "UP" sticker on the E4R profile.
- **G** Remove the ID strips from the panels.



Back Pediment

- Put ST7 couplers on the PN8R and PN8L pediment panel halves with the ID plastic strip facing outside. The tops of each coupler are trimmed to match the angle of the panel. Slide the two pediment panel halves together.
- **O** Assemble all parts of the back pediment except for the 7A connector and the R8 profile and slide the assembled PN8R/PN8L pediment panel into the open space of the pediment. Complete the back pediment, taking advantage of the flexibility of the profiles.
- O Lock the pediment in place using pins and remove the ID strips from the panels.



- Slide two GSC10 strengthening bars into both sides of a 10 connector, one in the upper section and the other in the lower section. They will overlap inside the connector and their ends will be flush with the far end.
- Slide two E2 profiles over the GSC10 strengthening bars. The ends of the strengthening bars will extend beyond the E2 profiles.
- O Complete the back pediment support with the 10 connectors, E2 profiles and 4A and 3A connectors as shown.
- Put the remaining profiles on the back pediment top.
- O Slide the back pediment panels in as shown. Make sure that the plastic ID strip faces the outside.

Note: If you have purchased one or more optional Louvered Windows insert them instead of the PN9 panels.

- Put the back pediment support in place, taking advantage of the flexibility of the profiles.
- Lock everything into place using pins and remove the ID strips from the panel.



Assemble Roof Framework

Note: Assemble the roof in an area not too far away from the completed base.

- First assemble the first arch.
- Slip one end of the CAB40 cable through the 6 mm (1/4") channel on the underneath side of the 5A connector. You may use the GT1 pin and glazing tool to assist you. The cable does not go through the central hole of the connector.
- Screw an AS70 screw using the AW5 Allen wrench through the CAB40 cable and the pin holes in both sides of the connector.

Note: The end of the screw should not extend beyond the outside channel of the E2 profile so it won't interfere with the placement of the RB1 glazing element (page 13).

O Repeat the previous two steps for the 5A connector on the other side of the arch.

O Lock the parts in place using pins.

⊙ Repeat steps ⊙ through ⊙ for the rest of the arches according to the number of GH40M modules you have purchased.



Cover the Greenhouse Roof



inserting the

top of the RB1 glazing element slightly loosen the AS70 screw holding in the CAB40 cable. O Tighten the AS70 screws holding the CAB40 cables with the AW5 Allen wrench.

13

• Place RD1 elements where shown by placing one end in the channel and pushing it down along the length of the profile.

Note: You may find it easier to insert RD elements into profiles by pushing them in from the top while rolling the element downwards.



Note: Before the next step decide where you want to put the WIN33 Roof Vents. We recommend that they be placed in the front or back of your greenhouse.

- Place the PN40 panels and the PN40A side panels in place by sliding one corner into the RD1 glazing element.
 Continue until they are fully inserted.
- Remove the ID strips from the panels.
- Assemble the two WINH31 handles to each WIN33 Roof Vent using the included pins.
- Insert the Roof Vents by sliding one corner into the RD1 glazing element. Continue until they are fully inserted.

To install a WIN33 Roof Vent in a central position (instead of a PN40 panel) first you must trim the edges as follows:

• After assembling a WIN33 window handles trim 6 mm (1/4") from each side with a razor knife or hacksaw.

Remove the cut portion.

Note: Additional Roof Vents are available as an option.

Caution: Close windows in high winds. Automatic window openers are available as an option.





Raise the Roof

- Put the R1 round profiles in place.
- Insert two pins in each R1 profile to lock them in place. Do not insert pins in the inner (panel) channels.
 Add the E1 oval profiles until the frame is

completed.

• Attach the E1R and E1L profiles to the doorway of the frame. Each of these profiles has a sticker indicating the up direction.

• Put the rest of the E1 profiles in place and lock them secure with pins.

Note: If there is no wind you may install the PN1 panels before putting the roof in place (page 17).

• Make sure that the roof is in the same orientation as the base and door. Lift the roof from both edges and walk through the door towards the back wall.

Note: You will need the help of another person for a short while to lift the roof and put it in place.

O Place the roof on the columns and circle around the greenhouse and insert the first 1 cm (1/2") of the roof connectors into the columns.

Note: Do not insert the connectors all of the way into the columns at this time in order to provide enough space to install the panels in the next step.



Cover the Walls

- Take a PN1 panel with the plastic ID strip facing out, and put the panel in place by gently curving it so that it enters the side channels of the columns.
- ② Slide the top of the panel into the channel in the bottom of the roof. Continue with the other PN1 panels.
- Lower the panel towards the frame. Continue with this procedure until all of the PN1 panels are finished.
- Panel by panel, circle around the greenhouse and lower the roof into place. Use the GT1 glazing tool to guide the corners of the PN1 panel into the channels.
- O Lock the roof in place with pins and remove the ID strips from the panels.



- Making sure that the plastic ID strip faces out, slide a PN2A panel in the lower RD1 element.
- **2** Bend the panel until it enters the upper RD1 element.
- Continue with the rest of the PN2 and PN2A panels.

• Lock the lower panels into place using RC1 glazing elements. Make sure that the end of the RC glazing elements are in line with the bottom of the RD elements.

Note: You may now remove the plastic ID strips from the panels.



Seal Panels

• Take the roll of GF sealer, divide it as shown, and pull out enough for one side of a PN1 panel.

Note: If the GF Sealer is not divided it will not fit in the channel of the column profile.

❷ Cut it to length.

- Align it with the channel of the column profile with the double ridge facing the panel.
- O Push it in to seal the panel using the GT1 glazing tool if needed.O Repeat for the other PN1 panels and the panels in the front and back pediments.



Assemble the Doors

Procedure A

- Assemble the profiles and connectors of the lower portion of the doors. Use the DoorH33 handle where shown on the left door.
- Put the PN18 panel in place with the plastic ID strip facing outwards.
- Assemble the upper portion of the door. Put the PN17 panel in place with the plastic ID strip facing outwards.
- O Connect the lower DoorH2 inner latch on the left door. Insert the bottom PS1"/41 screw into the hole for the pin.
- Oconnect the upper DoorH2 inner latch on the left door. Insert the top PS1"/41 screw into the hole for the pin.

O Lock the door together with pins. You may now remove the plastic ID strips.

Procedure B

• Take the roll of GF sealer and divide it as shown.

Note: If the GF Sealer is not divided it will not fit in the channel of the column profile.

- ⁽³⁾ Measure GF sealer for the edges of all panels.
- Align the GF with the channels of the column profiles with the double ridge facing the panels.
- **©** Push them in to seal the panel using the GT1 glazing tool if needed.



Hang the Doors

- **O** Cut two pieces of DSN Door Sealer and place in the channels of the hinged lintels.
- Hang the left door on the hinges.
 On the inside part of the door screw the LAT1 Inner Door Latch into the profile using the PS1"/14 Inner Door Latch Screw.
- **O** Hang the right door on the hinges.



Final Touches

Go inside your new Greenhouse and seal any gaps between the PN2 and PN2A panels and the profiles using SF soft foam insulation. Cut pieces of SF soft foam insulation 2.5 cm (1") long, remove the adhesive backing, and place where shown, making sure that the area is clean and dry.

Congratulations! Your Greenhouse is now completed. You will find it easy to clean and maintain.

Put this manual is a safe place so you can refer to it if you decide to add options or need to make a repair.

For your safety and convenience, please take note of the following:

- Examine your Greenhouse for sharp edges and trim with a razor knife if necessary.
- It is important to clear your Greenhouse of snow in the winter.
- Make sure that the temperature in the greenhouse never exceeds 70° C (155° F). Ensure good ventilation during hot days or provide a shading screen. This is especially important if you live in a hot climate.
- Always close roof vents in high winds.



Rion offers a wide range of options for your new Greenhouse, including modular shelves, irrigation systems, additional windows, automatic window openers, and others.

Thank you for your purchase. We wish you many years of pleasure with your greenhouse. Please feel free to contact us with any questions, comments, or suggestions.



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	Part Code	GH44	GH46	GH48	Description
AL.	A\$80	4	4	4	Door Runner Screw / Wingnut
01					
1 Ali	Door33	1	1	1	Door Handle
10 1 1 1 1 1 1 1 1 1 1					
	D1	4	1	1	Pound Profile (112 cm 2' 91/")
R	Pg	4	4	4	Round Profile (80.2 cm. 2' 79/e'')
20	D2	4	4	4	Pound Profile (52.4 cm. 1/ 0")
	F12	1	1	1	Oval Profile (116.2 cm $3', 93/4"$)
200	E1	15	10	122	O(x) = Profile (112 cm - 2' - 914')
50	EG	6	10	14	Oval Profile (85 cm $2' 976'')$
0	EQ	34	48	62	Oval Profile (54 cm, 1' 91/4")
	F18	6	6	6	Oval Profile $(51.4 \text{ cm}, 1'.81/4'')$
	F4	9	9	9	Oval Profile (39.4 cm. 1' 31/2")
	ES	4	4	4	Oval Profile (13.4 cm, $5^{1}/4^{"}$)
	SR1	2	2	2	Inner Round Profile (40 cm. $1' 3^{3}/4"$)
				-	
(a)	D1	2	2	2	Side Cap
5					
6.5	D2	3	5	7	Middle Cap
~~>					
\wedge	PN1	14	18	22	Wall Panel - (59.7 × 118.3 cm)
$\langle \rangle$			1		(1' 11½" × 3' 10%ε")
~~	DNID	1	0	12	Lower Roof Papel (60 5 × 66 7 cm)
$\langle \rangle$	F1N2	4	0	12	$(1' 11 \frac{19}{16}" \times 2' \frac{21}{4"})$
\sim	DNDA				Lower Boof Bonel (ride) (G1 7 y GC 7 cm)
$\langle \rangle$	PINZA	4	4	4	$(2^{5} \frac{5}{16} \times 2^{5} \frac{21}{4})$
	DUISI				
$\langle \rangle$	FINOL	2	2	2	$(1' 10^{7} \text{e}^{"} \times 1' 5^{1} \text{e}^{"})$
\sim	PN5R	2	2	2	Side Panel (Right) - $(58.1 \times 44.9 \text{ cm})$
					(1' 10 ⁷ / ₈ " × 1' 5 ¹ / ₁ / ₆ ")
N	PN8R	2	2	2	Pediment Panel Half (Right)
	1				
	PN8L	2	2	2	Pediment Panel Half (Left)
7	ST7	4	1	4	Window Couplers
(174)	517				
\land	PN9	2	2	2	Upper Back Wall Panel - (59.9 × 44.7 cm)
\sim					(%16 × 5 %8)
\wedge	PN40	4	8	12	Top Roof Panel - $(60.5 \times 97.6 \text{ cm})$
$\langle \rangle$	1				$(1^{\prime} 11^{\prime} \%6^{\prime} \times 3^{\prime} 2\%8^{\prime})$
	PN40A	2	2	2	Too Roof Papel (outside)
$\langle \ \rangle$		-	-	-	(61.7 × 97.6 cm) (2' ⁵ / ₆ " × 3' 2 ⁷ / ₆ ")
		{			
\wedge	PN17	2	2	2	Door Panel (top) - (57.1 × 45.1 cm)
\sim					(1' 10½" × 1' 5¾")
\wedge	PN18	2	2	2	Door Panel (bottom) - (57.1 × 118.7 cm)
$\langle \rangle$		1		1	$(1' 10'/_2" \times 3' 10'/_4")$
	WIN33	2	2	2	Roof Vent
	WINH31	2	2	2	Roof Vent Handles (packages of 2)
	CSC10	2	2	2	Back Pediment Strengthening Bar
		2	-	-	Dack reament strengthening bai
~	CSC12	1	1	1	Front Pediment Strengthening Bar
	(inside E12)	\'	1'		
\sim		1			

.

	Part Code	GH44	GH46	GH48	Description
	DSN	1	1	1	Door Sealer (roll)
	GF	1	1	1	Flexible Glazing Seal (roll)
	RA1	4	6	8	RA Glazing Element (57.3 cm, 1' 10%)
	RB4	6	10	14	RB Glazing Element (84.8 cm, 2' 9¾")
X	RB6	4	4	4	RB Glazing Element (80 cm, 2' 71/2")
	RB1	10	14	18	RB Glazing Element (52 cm, 1' 81/2")
	RC5	10	14	18	RC Glazing Element (95.5 cm, 3' 1 5/8")
A	RC1	10	14	18	RC Glazing Element (66.6 cm, 2' 21/4")
12	RC3	4	6	8	RC Glazing Element (58 cm, 1' 10 ¹ %")
A	RD1	16	24	32	RD Glazing Element (56.9 cm, 1' 10%")
(S)	PIN1	3	5	7	Connector Pin (packages)
Service and	GT1	2	2	2	Pin and Glazing Tool
5	SF	1	1	1	Soft Foam Roof Insulation (roll)
SUPP1		3	5	7	Roof Reinforcement Kit (Packets)
	AS 70	6	10	14	Cable screw
	AW5	1	1	1	Allen Wrench
C	Hook1	3	5	7	Top Catch
\frown	CAB40	3	5	7	Cable

Prepare Your Parts for Assembly

Remove everything from your packages and sort them according to part type. Since assembly is done from taking parts from every box, it is best to put everything together. The boxes are printed with a ruler to help you distinguish between profiles.



Note: Protect unassembled panels from the sun to prevent identification stickers from adhering to the glazing.

Identify Greenhouse Parts

Because of the Greenhouse modularity, you may purchase additional GH40M modules to fit your needs.



Take a minute to make sure you have everything you need.

Note: Do not proceed with assembly if any parts are missing.

The part code is stamped on each connector. Profiles are listed in order by size, largest to smallest. Panels are identified with stickers.

Exact dimensions can be found in the packing list.

The drawings in this manual are designed for the greenhouse owner who has purchased a GH44, which consists of one front unit (GH40A), one back unit (GH40B) and . If you have purchased additional modules the instructions are indicated in the text.

	Part Code	GH44	GH46	GH48	Description
	01	4	4	4	Corner Frame Connector
	2D	11	15	19	Frame Connector
	15	1	1	1	Doorway Frame Connector
	3A	2	2	2	Left Rib Connector
	4A	2	2	2	Right Rib Connector
	5A	15	25	35	Rib Connector
	6A	2	2	2	Left Pediment Connector
	7A	2	2	2	Right Pediment Connector
	8A	2	2	2	Top Pediment Connector
	09	10	10	10	T-Oval Connector
	10	3	3	3	Oval Junction Connector
A B	B2	16	20	24	Base Profile (50 cm, 1' 71‰")
	18 18D	4	4	4 4	Corner Oval Connector Corner Oval Connector (Door)
- North Contraction of the second s	Door44	1	1	1	Upper Door Lintel (1290 cm, 4'2¾")
and a second sec	PS1"/14	4	4	4	Inner Door Latch Screw
(° °	Door22	2	2	2	Bottom Door Hinge
P	DoorH2	2	2	2	Inner Door Latch

Introduction

Congratulations on purchasing a Rion Greenhouse. We are certain that it will give you many happy years of pleasure in your garden.

The drawings in this manual are designed for the greenhouse owner who has purchased a GH44, which consists of one front unit (GH40A), and one back unit (GH40B). If you have purchased additional modules the instructions are indicated in the text.

The Greenhouse has been designed to be as easy to put together as it is beautiful to look at. Most of the work can be done by a single person. Only attaching the roof requires the help of a family member or neighbor for a short while.

Easy assembly methods eliminate the need for tools or special expertise.

O Connect the specified parts.

• Match the holes in the profiles and the connectors. Place a pin on the pin tool and push the pin through the lined-up holes to lock the parts in place. Many connections require pins on both sides.

Note: Extra pins are included.

- If you wish to disassemble the parts at any time, remove the pins using the pin tool. Place the end into the exposed hole and lever the pin out.
- ④ If a hole in the connector is missing, drill a hole with a 6 mm (¼") drill bit through the assembled profile and then insert the pin.
- In extremely rare cases connectors will not slip into some round or oval profiles.



In this case place the affected part into 10 cm (4") of boiling water for 15 seconds before connecting.

Note: In some models profiles have identification stickers. We recommend removing them as you work.

Greenhouse assembly is done in the following steps:

Prepare a Foundation for Your Greenhouse (page 3) Identify Greenhouse Parts (page 4) Prepare Your Parts for Assembly (page 7) Lay Out the Greenhouse Frame (page 8) Secure the Frame to the Foundation (page 9) Assemble the Roof Pediments (page 10) Assemble Roof Framework (page 12) Cover the Greenhouse Roof (page 12) Cover the Greenhouse Roof (page 13) Raise the Roof (page 16) Cover the Walls (page 17) Seal Panels (page 19) Assemble the Doors (page 20) Hang the Doors (page 21) Final Touches (page 22)

Prepare a Foundation for Your Greenhouse

Before assembling your new Greenhouse a proper foundation must be prepared. A number of anchoring options are possible, based on wind and ground conditions in your area. Make sure that you have checked with your local authorities regarding any required building permits.

Decide at this time the final orientation of your Greenhouse. We recommend that you place your greenhouse in a spot where it will receive direct sunlight and will be protected from the wind as much as possible. The door should not face prevailing winds. It is important to clear your Greenhouse of snow in the winter.

Modular Base (Option)

If you have purchased the optional Greenhouse Modular Base follow the assembly instructions in the packaging. The Greenhouse Modular Base can be placed in an excavated hole or on the ground. In either case you will require sufficient gravel, earth or other suitable material to fill the base (see table below). All required hardware is included.

Treated Wood Base

Build a framework composed of 4×6 (**0**) and 2×12 (**2**) treated lumber using deck screws or galvanized lag bolts and fill it with gravel or earth or other suitable material to fill the base up to the top surface of the 4×6 (**0**). Attach the greenhouse frame through the connectors using screws that are 6 mm ($1/4^{"}$) in diameter and no less than 70 mm ($2^{3}4^{"}$) long (not supplied).

			•	
Model	Base Width	Base Length	Fill Quantity	Screw/Lagbolts
CH44	2.65 meter (8' 85%6")	2.65 meter (8' 85/16")	0.68 cubic meters (24 cubic feet)	20
GH46	2.65 meter (8' 85/16")	3.90 meter (12' 9%6")	1.02 cubic meters (36 cubic feet)	28
GH48	2.65 meter (8' 85/16")	5.14 meter (16' 10%)	1.36 cubic meters (48 cubic feet)	36

Concrete Foundation

Prepare a poured concrete foundation according to local building codes. Do not excavate and pour concrete in frozen ground. Make sure that there is a slight slope for drainage.

Pour your foundation according to the size of the greenhouse model you have selected. Make sure that the foundation is at least 10 cm (4") larger than the size of the greenhouse. The Greenhouse is secured to the concrete foundation using



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screws and concrete anchors or expansion anchors (not supplied). Use screws 6 mm ($\frac{1}{4}$ ") in diameter and no less than 70 mm ($2\frac{3}{4}$ ") long. A drill with an appropriate masonry bit is required.

Model	Modules	Foundation Width	Foundation Length	Screw/anchor set or expansion anchor
GH44	CH40A++GH40B	2.70 meter (8' 10")	2.70 meter (8' 10")	20
GH46	GH40A++GH40B	2.70 meter (8' 10")	3.95 meter (12' 11")	28
CH48	GH40A++GH40B	2.70 meter (8' 10")	5.20 meter (17')	36

Note: You may assemble the greenhouse on its base on a hard surface and move it to its final position when you have finished. Make sure that there are no obstructions between the assembly area and the final position.

Other Foundation Options

Wood Deck

Your Greenhouse can be secured to a wood deck with screws (not supplied) through the frame connectors. Use screws that are 6 mm ($\frac{1}{4}$ ") in diameter and no less than 70 mm ($2\frac{3}{4}$ ") long. Make sure that the wood deck itself is securely anchored to the ground. See hardware quantities and foundation measurements above.

Excavated Trench

Your Greenhouse can be placed in an excavated trench to anchor it to the ground. See the foundation measurements above for dimensions.



Rion GH40 Greenhouse Assembly Instructions



Modular greenhouses, garden sheds, outdoor garden elements and accessories Designed and manufactured by Rion A Member of the Plasson Group

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Safety First

- Check the contents of the greenhouse packaging against the packing list and the required parts for your model on page 4 and following. **Do not begin assembly if any parts are missing.**
- Please read these Assembly Instructions completely before assembly and keep them in your records so you can refer to them if you wish to add options or make repairs.
- The instructions in this manual lead you through each step in the assembly process. It is important for you to follow them closely.
- · We recommend that you use gloves during assembly.
- Rion is not responsible for the misuse of tools or parts.
- If local building codes require permits or licenses make sure that they are acquired before beginning.
- Your Greenhouse should be securely anchored to the prepared foundation or the Modular Base (available as an option) using the recommended hardware.
- If you prepare a concrete foundation do not excavate and pour concrete in frozen ground.
- Exercise caution when lifting heavy assemblies.
- Do not attempt to assemble your Greenhouse in high winds.
- We recommend that you place your Greenhouse in a spot where it will receive direct sunlight and will be protected from the wind as much as possible. The door should not face prevailing winds.
- When your Greenhouse is fully assembled examine it for sharp edges and trim with a razor knife if necessary.
- Close all roof vents in high winds.
- It is important to clear your Greenhouse of snow in the winter.
- Make sure that the temperature in the greenhouse never exceeds 70° C (155° F). Ensure good ventilation during hot days or provide a shading screen. This is especially important if you live in a hot climate.

Required Tools

Before you start assembly have the following available:

- Measuring tape
- Spirit level
- Scissors
- Gloves
- Razor knife

Note: You may find some parts easier to assemble if you first moisten them with soapy water.

Concrete Foundation

- 70 mm x 6 mm (2³/₄" x ¹/₄") screws and concrete anchor set or expansion anchor. (See quantities on page 3.)
- Hammer
- · Power drill and appropriate masonry bit
- Screwdriver for screws or wrench for expansion anchors. A power tool with the appropriate bit is recommended.

Note: If you have purchased a Modular Base all hardware is included.

Accessories

- Your Greenhouse comes with two roof vents. Additional roof vents (Part WIN33AC) are available as an option.
- A Modular Base can be purchased for your Greenhouse's foundation.