

Alpine Refrigeration Products

THERMEX REFRIGERATION, LLC

801 E. PIKE ST.

CLARKSBURG, WVA 26301

304-623-5724

Fax: 304-623-5725

FAX COVER SHEET

FAX NUMBER TRANSMITTED TO: 304-558-3970

ATTENTION: Purchasing Division

COMPANY: WV Dept. of Admin.

FROM: Michael A. Goots

CLIENT/MATTER: Bid # DNR 209130

DATE: 3.24.09

DOCUMENTS	NUMBER OF PAGES*
	13

COMMENTS: This Bid Supersedes the previous Bid.

Original will NOT follow.

RECEIVED
 2009 MAR 24 P 12:48
 PURCHASING DIVISION
 STATE OF WV

* NOT COUNTING COVER SHEET. IF YOU DO NOT RECEIVE ALL PAGES. PLEASE TELEPHONE US IMMEDIATELY AT 304-623-5724.



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

request for
Quotation

RFQ NUMBER: **DNR209130**

DATE: **Mar 16 2009 01:10pm**

PAGE: **1**

ADDRESS/CORRESPONDENCE ATTENTION TO:
FRANK WHITTAKER
304-558-2316

*927132347 304-623-5724
ALPINE REFRIGERATION PRODUCTS
801 EAST PIKE STREET
CLARKSBURG WV 26301

DIVISION OF NATURAL RESOURCES
CASS SCENIC RAILROAD ST PARK
ATTN: PARK SUPERINTENDENT
BOX 107
CASS, WV
24927 456-4300

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOI	FREIGHT TERMS
03/16/2009				
BID OPENING DATE: 03/24/2009				

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	BID OPENING TIME	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 2 *****							
THIS ADDENDUM IS ISSUED TO PROVIDE THE ATTACHED VENDOR TECHNICAL QUESTIONS AND AGENCY RESPONSES.							
BID OPENING REMAINS 03/24/09 AT 1:30 PM.							
0001	1	LS		740-70			
REFRIGERATORS, COMMERCIAL							
***** THIS IS THE END OF RFQ DNR209130 ***** TOTAL:							

RECEIVED
 2009 MAR 24 P 12:48
 PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Michael A. [Signature]* TELEPHONE: **304-623-5724** DATE: **3-23-09**

BY: *David [Signature]* FEIN: **550774683**

ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
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 Charleston, WV 25305-0130

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 CLARKSBURG WV 26301

DIVISION OF NATURAL RESOURCES
 CASS SCENIC RAILROAD ST PARK
 ATTN: PARK SUPERINTENDENT
 BOX 107
 CASS, WV
 24927 456-4300

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/25/2009				

BID OPENING DATE: 03/12/2009 BID OPENING TIME: 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		740-70		
REFRIGERATORS, COMMERCIAL THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY. THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES, IS SOLICITING BIDS FOR TWO (2) COMMERCIAL WALK-IN COOLERS AND ONE (1) COMMERCIAL WALK-IN FREEZER FOR CASS SCENIC RAILROAD STATE PARK PER THE ATTACHED SPECIFICATIONS. BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT MAY BE DEEMED NULL AND VOID, AND TERMINATED WITHOUT FURTHER ORDER. NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED: SEALED BID						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
<i>Michael J. ...</i>	304-623-5724	3-23-09	
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	
President	550774683		

WHEN RESPONDING TO RFQ INSERT NAME AND ADDRESS IN SPACE ABOVE I AM AN ELIGIBLE VENDOR



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

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RFQ NUMBER
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PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF
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~~304-558-2316~~

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 CASS SCENIC RAILROAD ST PARK
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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **03/25/2009** **03/12/2009** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
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BUYER: 44
 RFQ. NO.: DNR209130
 BID OPENING DATE: 03/12/2009
 BID OPENING TIME: 1:30 PM

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:

304-623-5725

CONTACT PERSON (PLEASE PRINT CLEARLY):

Mike Goots

***** THIS IS THE END OF RFQ DNR209130 ***** TOTAL: _____

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Frank Whittaker</i>	TELEPHONE 304-623-5724	DATE 3-23-09
TITLE President	FEIN 550774683	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

WV-38
REV. 10/81

STATE OF WEST VIRGINIA
PURCHASING CONTINUATION SHEET

BUYER: PAGE Req. or PO# 3
DNR 209130

VENDOR Alpine Refrigeration Products

Spending Unit:
DNR -

Item No:	Quantity	Description	Unit Price	Amount
1	1	<p>Commercial walk-in cooler with floor. Minimum dimensions must be 6' 9" x 11' 7" x 8' 6" in height; 34" x 76" right hand hinge door left of center on a 11'7" side. Refrigeration system must have minimum of one (1) horsepower. Compressor unit must use 404a refrigerant; plug into a 240 volt single phase pre-assembled remote with low ambient kit; have a minimum of 9730 BTU's per hour at 35 degrees; be hermetic with low and high pressure safety controls; defrost timer; dryer; sight glass and weather hood. Evaporator must be pre-assembled with thermostat and pump down solenoid valve and 15' pre-charged refrigeration lines with quick coupling. Refrigeration system must be charged by a certified refrigeration specialist. Brand or grade offered: <u>BALLY OR HARFORD</u></p> <p>To include warranty: five (5) years on compressor; one (1) year on all parts; and ten (10) years on insulated panels. Refrigeration system must be charged by a certified refrigeration specialist.</p> <p>Maintenance personnel at Cass Scenic Railroad State Park will receive and unload all panels and refrigeration equipment and inspect for damage. Also, maintenance personnel will assemble cooler.</p> <p>Vendor must provide ninety (90) days service and labor on unit and respond to service calls within twenty-four (24) hours. F.O.B. Destination. Freight or delivery charges must be included in the price of the goods. Delivery must be made within thirty (30) days of purchase order award.</p> <p>Vendor must submit manufactures published literature and a copy of the specifications for the unit being proposed.</p>	8,198 ⁰⁰	
2	1	<p>Commercial walk-in cooler with floor. Minimum dimensions must be 5' 10" x 7' 9" x 8' 6" in height; 34" x 76" door left hand hinge of center on a 5'10" side. Refrigeration system must be a minimum of 3/4 horse power. Compressor unit must use 404a refrigerant; plug into a 240 volt single phase preassembled remote with low ambient kit; have a minimum of 7260 BTU's per hour at 35 degrees; be hermetic with low and high pressure safety controls, defrost timer, dryer, sight glass and weather hood. Evaporator must be pre-assembled with thermostat and pump down solenoid valve; 15' pre-charged refrigeration lines with quick coupling. Brand or grade offered: <u>BALLY OR HARFORD</u></p> <p>To include warranty: five (5) years on compressor; one (1) year on all parts; and ten (10) years on insulated panels. Refrigeration system must be charged by a certified refrigeration specialist.</p> <p>Maintenance personnel at Cass Scenic Railroad State Park will receive and unload all panels and refrigeration equipment and inspect for damage. Also, maintenance personnel will assemble cooler.</p> <p>Vendor must provide ninety (90) days service and labor on unit and respond to service calls within twenty-four (24) hours. F.O.B. Destination. Freight or delivery charges must be included in the price of the goods. Delivery must be made within thirty (30) days of purchase order award.</p> <p>Vendor must submit manufactures published literature and a copy of the specifications for the unit being proposed.</p>	6,396 ⁰⁰	

WV-36
REV. 10/81

STATE OF WEST VIRGINIA
PURCHASING CONTINUATION SHEET

BUYER:	PAGE	Req. or PO#
		DNR 209130

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VENDOR Alpine Refrigeration Products

Spending Unit:
DNR -

Item No:	Quantity	Description	Unit Price	Amount
3	1	<p>Commercial walk-in freezer with floor. Minimum dimensions must be 6/9" x 11' x 8/6" in height; 34" x 76" door right hand hinge of center on a 11/7" side. Refrigeration system must be a minimum of three (3) horse power system. Compressor unit must use 404a refrigerant; plug into a 240 volt single phase pre-assembled remote with low ambient kit; have a minimum of 11,685 BTU's per hour at -10 degrees; be hermetic or semi-hermetic with low and high pressure safety controls, defrost timer, filter dryer, sight glass and weather hood. Evaporator must be pre-assembled with electric defrost heaters/thermostat, pump down solenoid valve and 4' drain heat tape; 15' pre-charged refrigeration lines with quick couplings. Freezer must have a five (5) years on compressor; a one (1) year on all parts; and a ten (10) years on insulated panels. Refrigeration system must be charged by a certified refrigeration specialist.</p> <p>Brand or grade offered: <u>BREYER OR HOFFORD</u></p> <p>To include warranty: five (5) years on compressor; one (1) year on all parts; and ten (10) years on insulated panels. Refrigeration system must be charged by a certified refrigeration specialist.</p> <p>Maintenance personnel at Cass Scenic Railroad State Park will receive and unload all panels and refrigeration equipment and inspect for damage. Also, maintenance personnel will assemble cooler.</p> <p>Vendor must provide ninety (90) days service and labor on unit and respond to service calls within twenty-four (24) hours. F.O.B. Destination. Freight or delivery charges must be included in the price of the goods. Delivery must be made within thirty (30) days of purchase order award.</p> <p>Vendor must submit manufactures published literature and a copy of the specifications for the unit being proposed.</p>	9,898 ⁰⁰	
		<p>The award may be split if it is in the best interest of the West Virginia Division of Natural Resources. <u>IF SPLIT FREIGHT WILL CHANGE FREIGHT</u></p>	1,200 ⁰⁰	
TOTAL THIS PAGE			<u>25,109.00</u>	

RFQ No. DMR209130

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor must make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: _____

Authorized Signature: _____

Date: _____

Rev. 09/08

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State of West Virginia
VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**

Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,

Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,

Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,

2. **Application is made for 2.5% resident vendor preference for the reason checked:**

Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

3. **Application is made for 2.5% resident vendor preference for the reason checked:**

Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

4. **Application is made for 5% resident vendor preference for the reason checked:**

Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,

5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**

Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,

6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**

Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: Alpine Refrigeration Products Signed: Michael A. Galt

Date: 3-23-09 Title: President

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

Bally

BALLY™ Pre-Engineered, Pre-Fabricated walk in coolers, freezers and refrigerated warehouses

offer the most cost effective and reliable structures of their kind in today's market. This brochure depicts some of the construction details and features that make the BALLY difference.

While the BALLY™ product excels in its intended use, it is only part of the story. Our leadership has developed with superior BALLY™ products as a core and with the addition of world renowned products to present a value-oriented package.

We back our products with over 65 years of knowledge in the cold storage industry. Our customers receive superior engineering support from an established team of experts. An investment in a BALLY™ structure is protected by a BALLY™ 10 year warranty on panels, but more importantly, by over 65 years as the premier manufacturer of pre-engineered, pre-fabricated panels in the world.

Today, we are responding quickly to the requirements of our client with the state-of-the-art computerized manufacturing equipment and tools to provide a concept to completion approach.



Blood Transfusion Centre,
Sudbury, Ontario. 8' x 11-1/2' x 7-1/2'.



Eastman Kodak, Rochester, N.Y.
12' x 12' x 8-1/2'.

PANEL CONSTRUCTION

BALLY™ panels are poured-in-place polyurethane foam, which are clad with a variety of metal finishes. Inch for inch, BALLY™ polyurethane has more than twice the insulating efficiency of fiberglass or polystyrene and more importantly is superior to foamed-in-place polyurethane panels.

Interior skins are available in stucco embossed aluminum, stucco galvalume, stainless steel, and smooth white polyester over galvanized steel, as well as our standard white polyester over stucco galvanized steel. Exterior skins are available in all of these finishes with stucco white profile panels especially suited for refrigerated warehouses.

BALLY™ superior poured-in-place polyurethane panels are available in 4", 5", and 6" thickness and heights up to 28'0", offering excellent insulating values. Panels are listed by UL as well as Factory Mutual and currently meet all worldwide criteria for CFC reduction. Poured-in-place polyurethane foam bonds tenaciously to the interior of treated metal skins, which provides for a panel made of 100% insulation, which is both light in weight and exceptionally strong. BALLY'S foam system has been tested in accordance with A.S.T.M. test No. E-84-B4 and is a Class I material with flame and smoke spread less than 25/450.

BALLY™ tongues and grooves on panel edges are precisely formed in manufacturing fixtures assuring an extremely light and sanitary joint complete with vinyl gasket material, eliminating the need for caulking, batten strips, or other fastening means.

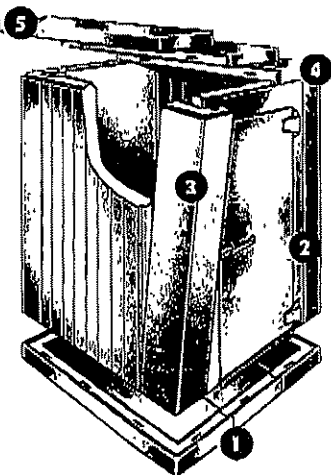
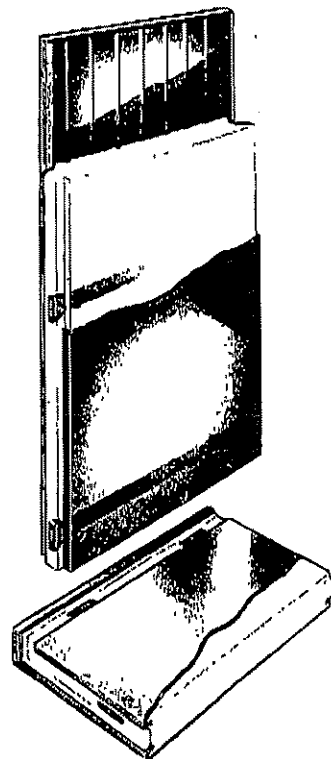
BALLY™ Speed-Lok™ joining mechanisms, manufactured by BALLY, facilitates the secure, accurate, and fast joining (and when necessary disassembly) of panels.

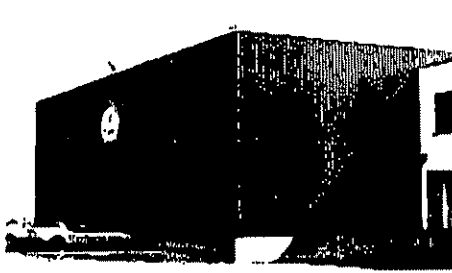
When BALLY™ panels are assembled, all panels including vertical to vertical, ceiling to ceiling, and ceiling to verticals, are interconnected with BALLY™ Speed-Lok® mechanisms. This assembly with integral 2" wide steel straps, forms perimeters of steel that hold panels securely and reliably together making extensive use of the BALLY™ diaphragmatic panel action.

SIMPLE ASSEMBLY

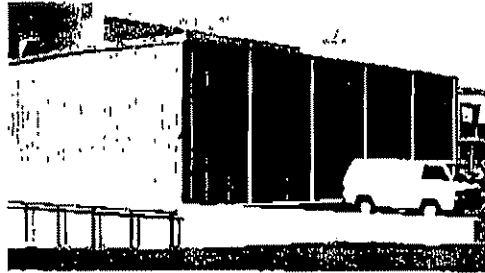
BALLY™ pre-engineered, pre-fabricated panels are made for fast and easy installation, and when necessary, disassembly and reassembly. Lightweight panels are joined and locked together with BALLY™ Speed-Lok® mechanisms.

1. Floor panels (when desired or required) are placed into position and leveled. Floor panels are Speed-Locked together.
2. Wall assembly is started by speed-locing a corner and wall panel together.
3. Wall assembly is completed.
4. Ceiling assembly is started by speed-locing a ceiling end panel to sidewalls.
5. Balance of ceiling panels are completed.

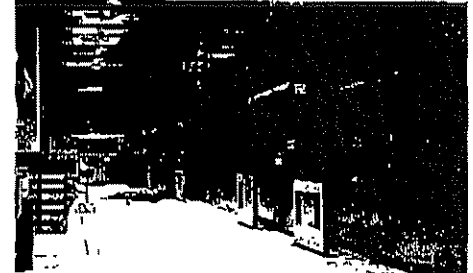




Avico Ltd., Iberville, Quebec.
71' x 94' x 28'.



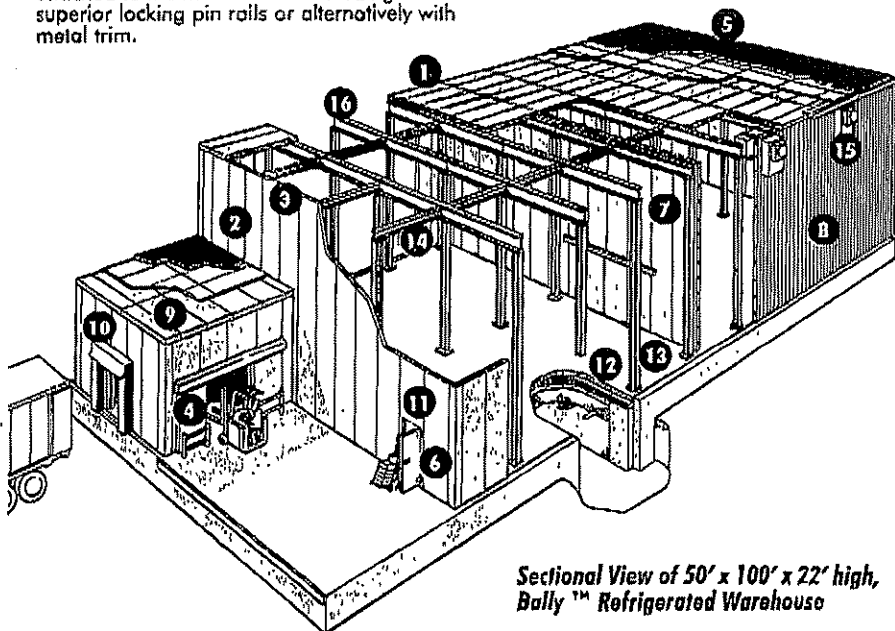
J.S. Vallis & Co. Ltd., Pembroke, Bermuda.
38-1/2' x 50' x 18'.



Wall Disneyworld, Orlando, Fla.
130' x 144' x 18'.

TYPICAL CONSTRUCTION FEATURES OF A BALLY™ REFRIGERATED WAREHOUSE

1. BALLY™ utilizes standard size pre engineered pre-fabricated insulated panel sections.
2. BALLY™ panels are available in a wide variety of interior/exterior metal skins. (Please refer to page 2).
3. BALLY™ superior poured-in-place polyurethane insulation is available in 4", 5", 6" thickness.
4. Industrial cold storage doors are available in manual or power operation as single or double horizontal slide, vertical rise, sectional overhead, and infilling.
5. PVC or EPDM membrane roofs supplied by BALLY™ are complete with gutters, downspouts and necessary detailed installation drawings.
6. BALLY™ hinged entrance doors are available in various sizes to suit an installation, and are complete with available panic hardware.
7. Partition wall panels, identical to exterior panels, may be attached to verticals or ceiling panels by speed-loks® or use of available metal trim.
8. Exterior panels are available in architectural profile, typically USDA approved white polyester over stucco galvanized steel and up to 28'0" in a single tier. (Stacked verticals also available for higher applications).
9. Ante-rooms, loading docks, or vestibules, when required, are assembled using standard BALLY™ panels which can be attached to the main structure utilizing superior locking pin rails or alternatively with metal trim.
10. Dock seals, shelters, and additional accessories such as dock lights and dock levelers are available to suit a particular application.
11. Doors complete with ante-condensate heaters are available to suit a particular application to prevent condensation and frost formation.
12. Most freezers and some cooler installations require properly designed on-site fabricated built-in insulated floors. BALLY™ designs these to meet particular conditions.
13. Internal structural steel support is available as applicable with many alternate means of support such as suspended ceiling, self-supporting ceiling, or external steel shed structure.
14. Lateral steel bracing is designed and utilized as required.
15. BALLY™ refrigeration systems are designed by BALLY™ to suit a specific application and to provide cost effective means of temperature and humidity control.
16. Proper steel support varies with an individual warehouse and will suit local site conditions, construction regulations, and applicable wind, seismic, and snow loading.



Sectional View of 50' x 100' x 22' high,
BALLY™ Refrigerated Warehouse

NORTHWIND BLAST CHILLERS



Northwind 500UR and 1000UR-2 blast chillers provide a safe, sure means to quick-chill foods, yielding stable food quality, longer shelf life, and compliance with tough HACCP standards.

Northwind 1000UR-2 can chill up to 500 pounds of hot food from 140° to 45° F in two hours, depending on food and type of container used; Northwind 500UR can chill 250 pounds of food in the same period. Either accepts virtually any type of kitchen or oven rack.

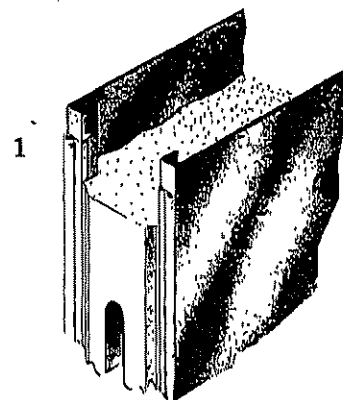
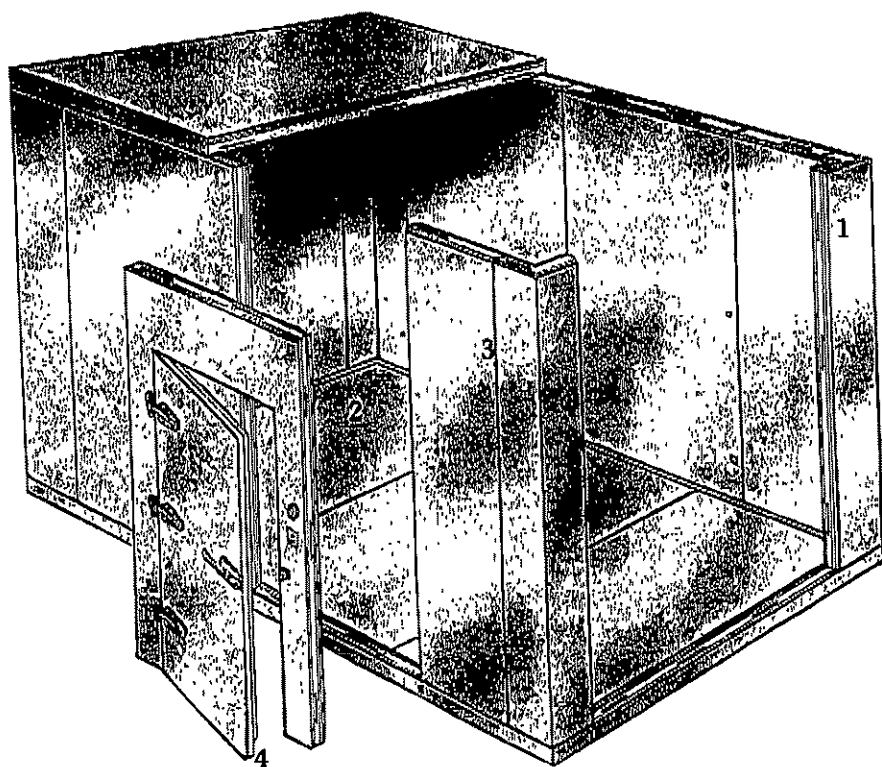
NOTE: The maximum height of one-piece painted galvanized wall panels erected indoors or outdoors is 27'-8". Maximum height of one-piece aluminum wall panels is 15'-4". Use multi-tier construction for higher warehouses.

Because requirements vary widely with individual site conditions and local regulations, review and approval of all building plans must be the responsibility of an engineer familiar with the circumstances of the individual installation.

Call Us Today Toll-Free:
1-800-24-BALLY

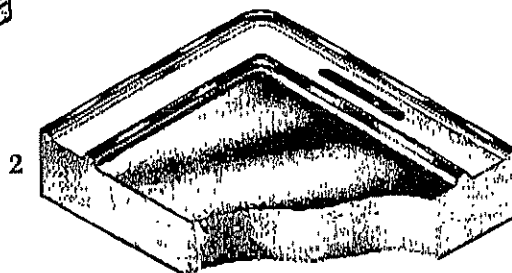
HARFORD RESULTS

Harford's pre-fabricated cooler and freezer panels reflect dedication to quality in three ways. First, material must meet established standards; second, equipment must accomplish specific jobs; third, people must be trained to high levels of requisite skill. Walk-in structures constructed with Harford panels reflect the quality commitment.



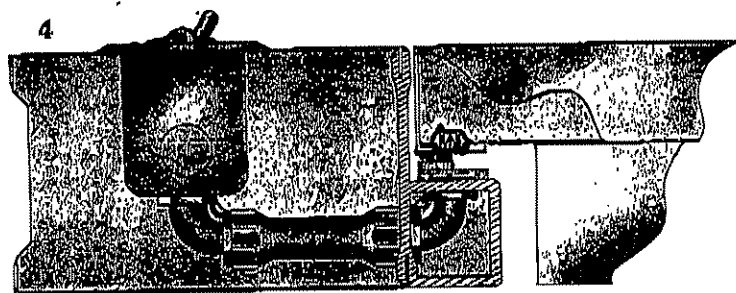
"Double 90"

Panel lengths (wall and ceiling) are rollformed with "Double 90" flanges. This formed channel gives rigidity to metal parts and, when foam-locked in a finished panel, provides superior stability and strength.



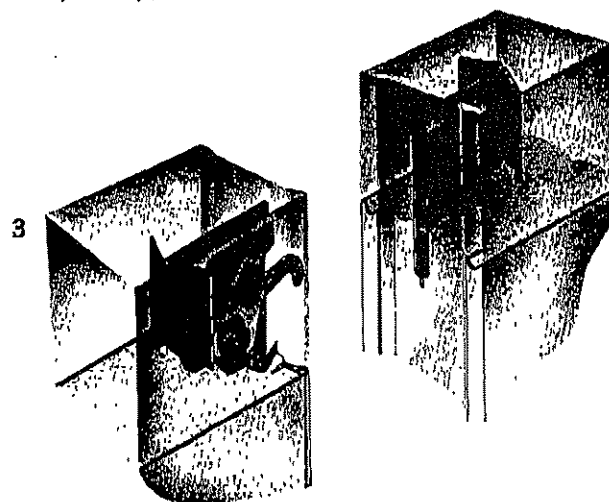
Floor Cove

All Harford panel structures meet NSF Standard 7. The floor panel is a full 4" thick with a 1/2" interior cove. The corner is hydraulically press formed without slit or seam.



Door Jamb

Harford engineers designed the door jamb assembly for strength, functional versatility and appearance. The heavy-duty FRP pultrusion provides a thermal barrier that eliminates a costly second heater circuit required on other low temperature doors (consider the energy savings of that!) Heater wires are optional on cooler doors.



Panel Locks

All panels are interconnected with cam-action locking devices permanently foamed into exact location for perfect vertical and horizontal alignment. Tongue and groove configuration with foamed-in-place gasket edges insure a uniform air tight assembly.

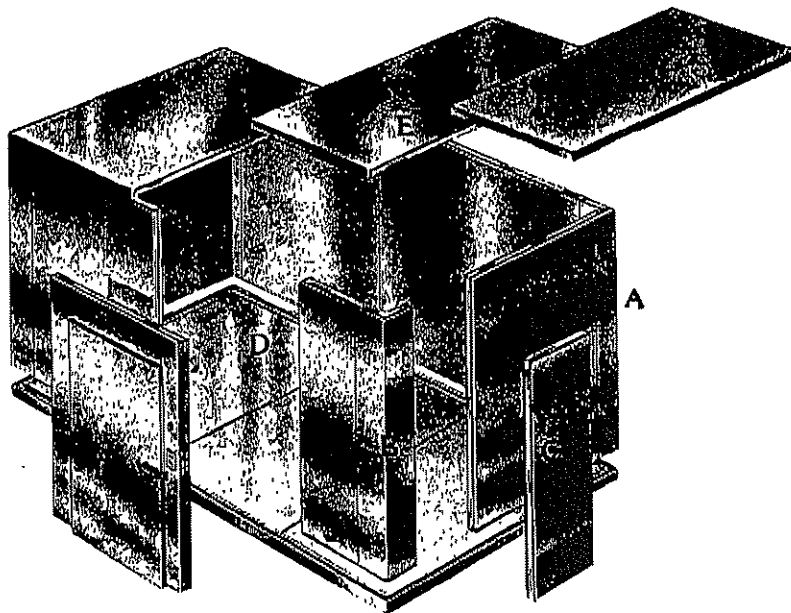
HARFORD RESULTS

Harford walk-in cooler and freezer panels are a full 4" thick with a foamed-in-place urethane core. The panel efficiency rating ("R" value) is 28 — greater than 8" of fiberglass and polystyrene or 11" of cellular glass block!

The urethane-to-metal bond and "Double 90" flanges give tremendous strength to construction panels that average less than 2¼ pounds per square foot in weight (galvalume finish).

Every panel has a tongue and groove perimeter with foamed-in-place gaskets. All Harford walk-ins are manufactured to meet NSF standard 7.

Various panel sizes allow design versatility for specific application.



STANDARD PANELS MEET SPECIAL REQUIREMENTS

- A. AVAILABLE OUTSIDE HEIGHTS — WITH FLOOR PANELS OR FOAM SCREEDS:** 7'6½", 8'6½", 9'6½", 10'6½", 11'6½", 12'6½", 13'6½", 14'6½", 15'6½" and 16'6½". Warehouse structures requiring heights greater than 16' are accomplished by "stacking" standard walls (see page 16). Heights from 16'6½" to 32' or higher are available. Floorless walk-ins using vinyl screeds are 4" less in height than those listed above (i.e., 7'2½", 8'2½", 9'2½", etc.). See dimension chart on page 23.
- B. CORNER:** 90° die-formed panel, 11⅝" × 11⅝" O.D. in all heights. Interior "cove" design facilitates cleaning.
- C. WALL PANEL:** Available in widths of 11⅝", 23¼", 34⅞" and 46½" for all heights.*
- D. FLOOR PANEL:** Available in same widths listed for walls and in the following lengths: 5'9¾", 6'9¾", 7'9", 8'8¾", 9'8¾", 10'7⅞" and 11'7½" (nominal 6' thru 12' in 11⅝" increments). Special end-to-end locking capa-

bility allows floor panel use for any large area when required. (See dimension chart on page 23.)

- E. CEILING PANEL:** Available in all widths and lengths listed for floor panel. Special 12'7⅞" and 13'6¾" reinforced panels are available for "clear span" indoor application. End-to-end interlocking design allows larger ceiling areas when suspended from overhead or supported with interior steel. (See pages 23.)
- F. DOOR AND DOOR SECTION:** Standard door sections are 46½" wide with a 34" × 76" net opening entrance door for 7'6½" high (or 7'2½") walk-ins and 34" × 78" door for 8'6½" high (or 8'2½") and higher structures. Doors and sections are completely assembled at Harford including pre-wiring — see page 10 for design and construction detail. A nominal 5' section (4'10⅞") is available for 34" and 41" wide doors and a nominal 6' section (5'9¾") is available for doors in 34", 41", 48" and 54" widths. (See dimensional chart on page 24.)

*Note that all Harford panel widths gain by 11⅝" increments. The "nominal" 4" wall uses a full 48" wide sheet, but roll-forming the strengthening double flange results in a finished width of 46½". A nominal 2" wall is ½ the size, or 23⅞" in actual width, etc. To determine the actual size of a nominal dimension, simply multiply by .96875. (A dimensional conversion table is on page 23.)

HARFORD DURACOOOL FINISHED PRODUCT

ENTRANCE DOOR DETAILS -- EXEMPLARY DESIGN AS STANDARD

LIGHT:

Vapor proof light fixture — all standard door sections have one vapor proof light fixture (pre-wired to switch) with lexan globe. This fixture is mounted over the CENTER of door header to illuminate aisle space and not interfere with shelving adjacent to opening.

THERMOMETER:

2 1/2" DIAL THERMOMETER -- high quality construction features include a range from -40° to $+60^{\circ}$ vapor-tension actuation, recalibration device, sanitary nickel-plated capillary end bulb and a color code "safety range" dial. This chrome-faced thermometer is standard equipment on all Harford Duracool walk-ins.

SWITCH:

Light switch — heavy duty switch assembly is equipped with a red neon pilot indicator bulb and pre-wired to light fixture as directed by Underwriters Laboratories procedure (File #E44774). The switch is flush-mounted with a stainless steel cover plate.

HEATER:

Anti-condensate heater circuit — heater wire is concealed behind a polished stainless steel channel to attract magnetized door gasket. The heavy-duty FRP pultrusion provides a thermal barrier that eliminates a costly second heater circuit required on other low temperature doors (consider the energy savings of that!) Heater wires are optional on cooler doors.

HINGES:

All standard doors are equipped with two extra strength, non-sagging, self-closing hinges. When the door is opened, it rides up smoothly on nylon cam-type bearings. The door closes itself by riding back down to engage hydraulic closure. This closure — standard on all Harford Duracool doors — assists toward final magnetic seal.

TAP PLATE:

All door hardware (hinges, handle and strike) are attached with **STAINLESS STEEL** machine screws into loamed-in-place, .0785" thick, steel tap plates. This superior design and construction standard insures reliable operation throughout years of heavy usage. **No wood** is used in Harford Duracool's door construction.

WIPER GASKET:

The bottom edge of Harford Duracool doors is equipped with a double-blade, flexible "sweep" wiper gasket. Dual contact with heated sill provides a safe ice and moisture-free traffic area.

DOOR HANDLE:

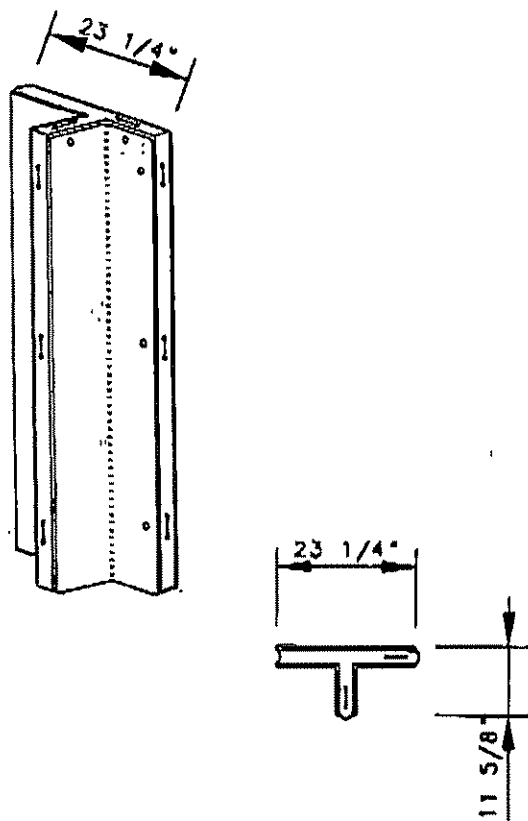
The key to trouble-free door operation is the hardware used to secure closing. Harford Duracool supplies — as standard — a heavy-duty, long-lasting handle and latch assembly in a beautiful "brushed" or chrome finish. To insure a positive seal, Harford Duracool's magnetic gasket is designed to retain its resiliency for years. The handle, equipped with a slot to enable padlock security, is furnished with an interior, positive action, push-rod safety release and key lock. Standard 36" doors are installed within a nominal 4' panel and are available in nominal 5' or 6' sections to facilitate location.

THE HARFORD DURACOOOL ENTRANCE DOOR IS DESIGNED AND CONSTRUCTED TO LAST!

HARFORD FINISHED PRODUCT

Partition Walls

A complete thermal break is provided when Harford's "T" panels are used to construct an insulated structure of two or more rooms. Use of the "T" wall allows design of a cooler/freezer combination within a single perimeter of walls for maximum use of available floor space.



Partition walls offer many design possibilities. A two-compartment walk-in can be supplied with floor panels in the freezer area and with foam screeds in the cooler section to significantly reduce cost.

Finishes

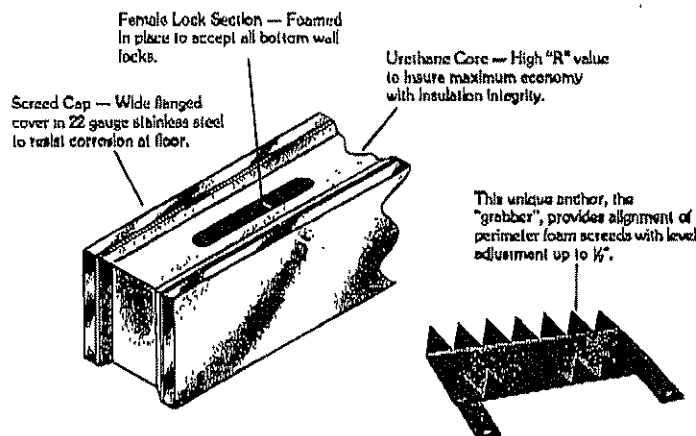
A variety of metal types is available from Harford to allow proper selection for specific application — Harford panels are clad in the finest material, manufactured in the United States.

- Galvalume Steel:** This durable material is an ideal finish generally selected for practical application and for unexposed surfaces of panels used in construction of structures using more expensive metals on exposed or designated areas. The corrosion resistant, hot dipped alloy coating contains both aluminum (over 50%) and zinc. (Galvalume's rust resistance is from two to four times greater than G90 galvanized.) The topside of Harford ceilings and underside of floor panels are always clad in galvalume (unless otherwise specified). Standard galvalume metal is embossed, 26 gauge.
- Galvanized Steel:** For surfaces requiring greater resistance to possible impact, Harford offers 22 gauge smooth galvanized. Floor panel surfaces are always furnished with 14 gauge galvanized covers (unless otherwise specified).
- Aluminum:** Embossed aluminum in natural (unpainted) finish is offered by Harford in standard 20 gauge (.032") or 18 gauge (.040") as selected. White acrylic enamel baked on aluminum is also avail-

Harford offers design versatility and maximum economy with combinations of these metals. You can select a white aluminum interior with stainless steel on exposed walls and economical galvalume on "hidden surfaces" (top of roof and those areas adjacent to building walls).

Screed

The Harford vinyl screed is applied for coolers and freezers being erected on insulated surfaces without floor panels. The heavy-duty PVC extrusion has reinforced shoulders for walls to rest and seal upon. Panels are leveled (as required) within the screed. The profile provides a 3/8" sanitary cove in constant contact with floor surface. The vinyl screed allows construction of with floor/floorless combinations when that section with floor is "recessed" 4" into building floor.



Harford's foam screed is optionally available for floorless walk-ins. Especially useful where tile and grout will be applied after installation. Also used as standard with combination walk-ins where one section is floorless and the other section is with floor. Available in heights up to 12". THIS IS A "NON-NSF CONFIGURATION."

- able when brighter surfaces are desired for illumination or sanitary appearance. White embossed finish can be had in 20 gauge or 18 gauge, white on smooth aluminum is available in 18 gauge only. All Harford panels having white finish will be shipped with a strippable PVC coating applied to protect surface during fabrication, shipment and construction.
- Stainless Steel:** Harford offers type 304 stainless steel (low carbon — high nickel and chromium content) for its non-magnetic and rust resistant properties, strength and durability. Wall and ceiling panels are available in 22 gauge or 20 gauge with #4 polish. (Stainless clad panels are shipped with a strippable PVC coating for surface protection.) Floor panels are provided in the same type of stainless, but .063" thick (16 gauge) with #2B finish. All Harford floor panels — regardless of wall finish — are supplied with 22 gauge stainless steel edge caps to prevent deterioration at damp floor surface.