

“STAK PAL” STEEL STACKING PALLET FRAMES W/REMOVABLE CORNER POSTS



Above: 3 High Stack allows access to complete lots while maintaining an orderly hi-cube storage system, and speedy preparation for processing and shipping.

Gain greater control of inventory and of costs.

Stack in less time in less space. No more costly unloading and reloading onto shelves or storage bins. Lift trucks simply lift the loaded Stak-Pal onto other loaded Stak-Pals.

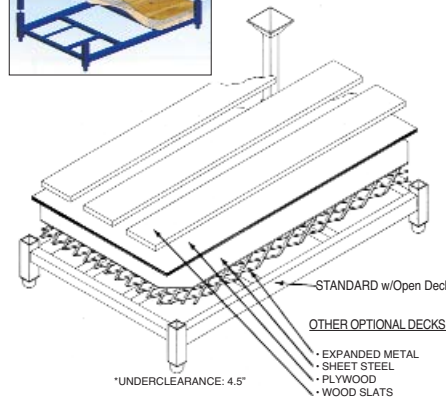
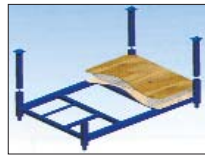
Support posts, end frames, and side frames are all interchangeable to meet your changing needs. More material can be brought to the production line in a single trip. The rigid tubular steel Stak-Pal supports thousands of pounds. No shifting. No crushing. No costly damage.

You can utilize Stak-Pals everywhere. Choose from a selection of standard size and interchangeable components. Create structural storage systems... row after row, one to six Stak-Pals high.

Perfect for Piece Goods & Bulk Products of All Sizes

All Steel Stacking Pallet Frames Include:

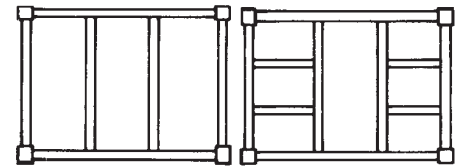
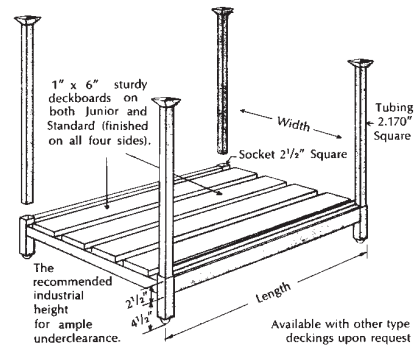
- Permanent Steel Base
- Open Frame, Hardwood Plank, Plywood or Steel Decks Available
- Secure Steel Uprights
- Removable Posts
- Interchangeable Components



Stak-Pal Specifications

Wood pallets are additional.

Standard Size Stak-Pal – 4,000 lb capacity (1814.4 kg)



Type B

Type C

Two Base Frames

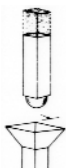
Base Frame Type B – is designed with two center support angles in the basic rack for two-way entry.

Base Frame Type C – is designed with six center support angles arranged as shown for four-way entry with racks that are wider than the length of the lift truck forks.

Both frames are available with or without decking.

STAK-PAL DESIGN HANDLES LONG AND SHORT ROLLS AND BULK GOODS

- Convert from piece goods to cut work or finished goods containers



Special “High” Socket Channel Collars

Removable channel collars slide over corner posts to provide instant channels for the insertion of side or end panels, converting the STAK-PAL to a 4-sided enclosure. Side and end panels, alone or in combination, provide a variety of enclosure arrangements to suit your storage requirements.

Panels can be supplied by Ted Thorsen or they can be made quickly out of steel, wood, or fibreboard.



Loose channel pair slips on post.

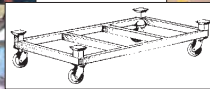
Side Frames For Roll Goods Storage • Casters for Mobility • Stak-Pal & Dolly



Removable side frames aid in retaining short rolls and add versatility.



Stacking rack with casters built for handling rolled materials, utilizing removable side frame “fence” assemblies.



Stacking Rack Cart w/ Casters



Stak-Pal and Dolly combination provides mobility directly into production or storage.

Stak-Pals are Nestable • Stackable • Forkliftable



Empty unused posts and Stak-Pal bases are nested and stacked to minimize storage area and transport cube.

Stak-Pals handle easily with all types of fork equipment. Loaded or empty, Stak-Pals with two-way or four-way entry lift easily with lift equipment.



Stak-Pal Dimensions

Standard Base Frame Sizes

Width	Length	Width	Length
30" (76.2 cm)	42" (106.7 cm)	48" (121.9 cm)	48" (121.9 cm)
30" (76.2 cm)	48" (121.9 cm)	48" (121.9 cm)	54" (137.2 cm)
30" (76.2 cm)	54" (137.2 cm)	48" (121.9 cm)	60" (152.4 cm)
30" (76.2 cm)	60" (152.4 cm)	54" (137.2 cm)	60" (152.4 cm)
36" (91.4 cm)	42" (106.7 cm)	60" (152.4 cm)	60" (152.4 cm)
36" (91.4 cm)	48" (121.9 cm)	60" (152.4 cm)	66" (167.6 cm)
36" (91.4 cm)	54" (137.2 cm)	60" (152.4 cm)	72" (182.9 cm)
36" (91.4 cm)	60" (152.4 cm)	66" (167.6 cm)	60" (152.4 cm)
42" (106.7 cm)	48" (121.9 cm)	66" (167.6 cm)	66" (167.6 cm)
42" (106.7 cm)	54" (137.2 cm)	72" (182.9 cm)	60" (152.4 cm)
42" (106.7 cm)	60" (152.4 cm)	72" (182.9 cm)	66" (167.6 cm)
48" (121.9 cm)	48" (121.9 cm)		

Standard Heights for End Frames (pairs) and Corner Posts — Sets of 4

Posts

Height Above Deckboards

18" (45.7 cm)	21" (53.3 cm)	**24" (60.9 cm)
27" (68.6 cm)	30" (76.2 cm)	33" (83.8 cm)
36" (91.4 cm)	39" (99.1 cm)	**42" (106.7 cm)
*45" (114.3 cm)	*48" (121.9 cm)	**51" (129.5 cm)
**54" (137.2 cm)	**57" (144.8 cm)	**60" (152.4 cm)
**63" (160 cm)	**66" (167.6 cm)	**69" (175.3 cm)
	**72" (182.9 cm)	

* “High” Sockets recommended.

** “High” Sockets required.

Prices quoted promptly on request.

Other sizes and special designs are available to your exact specification.

THE PROVEN NESTAINER STORAGE RACK

• Works Wonders with Piece Goods, Boxed Merchandise, Bulk Bags & Stacked Totes



1. Maximum use of air and floor space.

Nestainers can be positioned in any type of configuration. The base of the Nestainer is raised four inches above floor level so a lift truck can enter from the front or either side.

2. Full visual control for most efficient inventory and handling.

3. Eliminate individual product rehandling.



Nested - our exclusive nesting feature which lets you revert storage space back into valuable floor space when Nestainers are not in use.

4. Maximum product protection from production line to warehouse to shipping area to customer.

Each Nestainer unit is constructed of heavy-duty square tubular steel frames welded solidly together. Tough, rugged Nestainers are built to carry any weight requirement up to 4,000 lbs.

5. Reconvert storage space back into valuable floor space when the system is not in use.

Twelve units nest quickly and easily to take up no more floor space than one unit alone.

Nestainers are completely portable, even when nested.

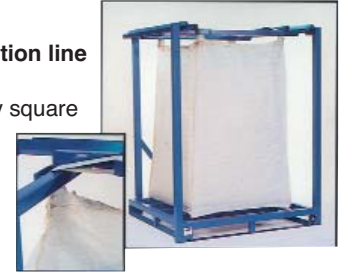
Units can be removed from shipping areas in nested groups, reducing square feet and the number of trips required for removal.

6. Eliminate permanent storage racks, wooden skids and expensive hardware.

7. Nestainers are well suited to bulk bag storage, shipment, filling and handling applications.

Call Ted Thorsen LLC to discuss your application/solutions.

Three bulk bag designs are available.

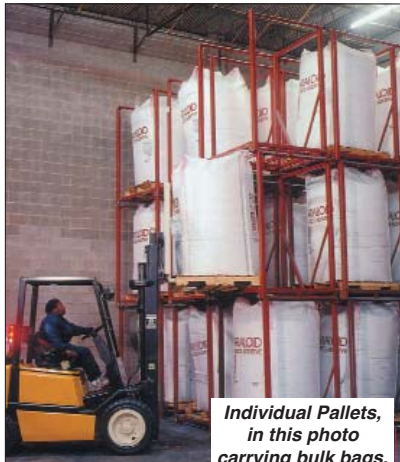


Bulk bag storage and fittings for hanging bags

Self-guided Stacking

The Nestainer rack's exclusive inverted angles provide safe, secure and simple stacking.

Nestainer construction eliminates costly maintenance problems. All steel one-piece all-welded construction eliminates maintenance of any base pallet, upright locking devices and corner fasteners because Nestainers have no such conventional devices. No wood to break. No bolts to snap. No fasteners to slip. Costs are reasonable, and lead times are short.



Individual Pallets, in this photo carrying bulk bags, can be added or removed easily from Nestainers.

How to Specify a Nestainer Rack

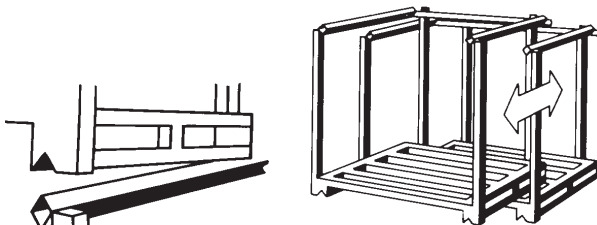
In order to supply the Nestainer rack that best fits your specific application, the following information is needed.

1. Brief description of the product to be stored.
2. Pallet/load size - W in. x D in. x H in. (sizing is all clear, outside dimensions).
3. Is there overhang on the pallet?
4. Type of pallet used (2-way or 4-way).
5. Type of rack entry: (2-way or 4-way).
6. Weight of pallet/load.
7. Stacking height desired.
8. Are there any unusual loadings.

CALL FOR A PROMPT QUOTE • POPULAR SIZES Almost any size available

Usable Inside Dimensions W x L x H	Actual Outside Dimensions W x L x H
40 x 48 x 42	44 ¹ / ₂ x 50 x 50 ¹ / ₂
40 x 48 x 48	44 ¹ / ₂ x 50 x 56 ¹ / ₂
48 x 48 x 42	52 ¹ / ₂ x 50 x 50 ¹ / ₂
48 x 48 x 48	52 ¹ / ₂ x 50 x 56 ¹ / ₂
53 x 42 x 42	57 ¹ / ₂ x 44 x 50 ¹ / ₂
53 x 42 x 48	57 ¹ / ₂ x 44 x 56 ¹ / ₂
53 x 48 x 42	57 ¹ / ₂ x 50 x 50 ¹ / ₂
53 x 48 x 48	57 ¹ / ₂ x 50 x 56 ¹ / ₂
53 x 48 x 54	57 ¹ / ₂ x 50 x 62 ¹ / ₂
53 x 48 x 64	57 ¹ / ₂ x 50 x 72 ¹ / ₂
53 x 48 x 72	57 ¹ / ₂ x 50 x 80 ¹ / ₂
60 x 60 x 42	64 ¹ / ₂ x 62 x 50 ¹ / ₂
60 x 60 x 60	64 ¹ / ₂ x 62 x 68 ¹ / ₂
60 x 64 x 48	64 ¹ / ₂ x 66 x 56 ¹ / ₂
72 x 36 x 36	76 ¹ / ₂ x 38 x 44 ¹ / ₂
72 x 48 x 48	76 ¹ / ₂ x 50 x 56 ¹ / ₂

Typical Prices vary depending on Quantity, Size, Capacity, Decks and Special Features —
Call For a Quote



Front-end Nesting

Nestainer rack's front-end nesting increases empty rack handling and efficiency. Each rack adds only 5¹/₂ in. to the overall nested height and overhang is limited to 2 in. per rack.

Nestainers stack safely and securely in any configuration to maximize air and floor space. The secret to the system and your savings is the patented inverted angle — the bottom angle of the top unit fits perfectly into the top angle of the unit below for the best fixed or portable rack system available.



The one-piece, open construction of each Nestainer facilitates inventory control and maintains lot integrity.

HI-PERFORMANCE PALLET RACK FOR PALLETS & HEAVY LOADS

• Call, Fax or E-Mail Ted Thorsen LLC for a prompt quotation.



Upright Frames:

- One piece, welded component frames, available in 10 standard capacity ranges, 30 ft. heights, and 6 ft. depths.
- Upright frames have a safety factor of 1.92 based on minimum yield of steel.
- Standard color: Forest green. (Other colors available on special order.)

Connections:

- Patented rigid connection of beam to frame. Incredibly secure connection with rigidity approaching that of a weld. **Beam lengths to 156"**.

Load Bearing:

- Beam hooks are a full 3/16" thick and will carry a load of 22,000 pounds in shear with a safety factor of three.
- The three-point connection resists vertical, horizontal and torsional forces and makes the whole rack structure more stable.

Upright Bracing:

- Upright frames are built with heavy duty horizontal and diagonal channel bracing.
- Massive channel members are fully as wide as the column, 1 1/8" deep, and are designed with a return flange to stiffen the legs of the channel.
- Factory jig welded to form rigid, vertical panel assemblies with uniformly close tolerances.

Floor clearance:

- Bottom upright brace is 8 1/2" above the base of plate, allowing you to lag the racks to the floor without the need to move the racks once spotted in place.
- Offset, pre-drilled lagging holes are not exposed to aisle traffic.
- Welded-on footplate is a full 6" long by 3 3/4" wide to spread the load over a wider area of floor. Has a stamped positioning register to lock into similarly stamped shims.



Pallet Rack installation by Ted Thorsen LLC. Base Pads are being lagged to the floor and decking is being positioned.



Gravity Flow Rack also available... call us for more information.





LET US BUILD A PALLET RACK SYSTEM TO YOUR EXACT REQUIREMENTS

• Many Options Available - Call for a Prompt Quotation

Broad Selection

Beams and upright columns are available in a virtually limitless range of heights, lengths, depths and capacities. Ted Thorsen can help you select the right system for your storage needs.

Solid Corners

No steel removed from corners – extra strength.

Large base plates

6" base plates distribute the loads more uniformly but aren't exposed to aisle traffic.

Full fillet welds

No skimping here. Our uprights have full fillet arc welds for strength and durability. No tack welds.



Massive bracing

Full 3" stiffened channel bracing – both horizontal and diagonal – prevents twisting and improves rigidity.

Patented beam to column connection

The end plate of the beam is captured by the column's full length return flange when the beam hooks are seated. The result is an incredibly secure connection with rigidity approaching that of a weld.

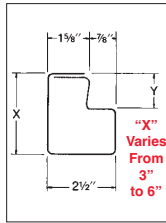
Offset anchoring hole

Prepunched hole permits power tool installation – speeds lagging. No need to pre-drill holes in floor.

STEP BEAMS FOR PALLET RACK

Connection Capacity

Regardless of the beam or upright capacity, loads per level must be limited according to the following chart, based upon the upright-hook interface:



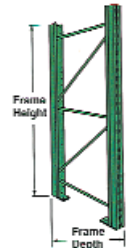
Upright Frame	Beam Capacity
Model RU-UFS	9,000 lbs. per pair
Model RU-UFM	12,000 lbs. per pair
Model RU-UFH	15,000 lbs. per pair

NORMALLY AVAILABLE BEAMS

Product No. - Length (")	Capacity / PR
RU-RBL32P-355 - 48.37	8,350#
RU-RBL32P-355 - 72.37	5,520#
RU-RBL32P-410 - 96.37	5,060#
RU-RBL32P-465 - 96.37	6,320#
RU-RBS32P-555 - 96.37	9,460#
RU-RBS32P-465 - 102.37	6,830#
RU-RBS32P-555 - 108.37	8,390#
RU-RBS32P-555 - 120.37	7,530#
RU-RBS32P-600 - 120.37	8,750#
RU-RBS32P-555 - 132.37	6,310#
RU-RBS32P-600 - 144.37	6,670#
RU-SBS32P-650 - 144.37	9,211#

Many other sizes and capacities are available. Quantity Discounts will apply.

FRAME CROSS-SECTIONS



FRAME CAPACITY CHART

Max. Vertical Beam Spacing	32-C			33-C			43-C
	S	M	H	S	M	H	M
36"	24,000	29,800	36,400	29,100	40,500	49,100	51,700
44"	22,500	27,900	34,100	26,900	37,100	45,000	49,400
48"	21,600	26,900	32,800	25,600	35,300	42,700	48,000
52"	20,700	25,700	31,300	24,300	33,300	40,400	46,600
60"	18,600	23,200	28,200	21,500	29,300	36,400	43,400
72"	15,400	19,100	23,200	17,300	23,300	28,100	38,100
84"	12,200	15,200	18,500	13,500	17,900	21,600	32,600
96"	9,800	12,300	14,800	10,700	14,100	17,000	27,200
108"	8,000	10,000	12,100	8,700	11,400	13,700	22,200

Vertical beam to beam spacing greater than 108" - consult factory.

NORMALLY AVAILABLE FRAMES

Part Number	Product Size H x D	Description / Capacity	Weight (lbs.)
RU-UFS32C-8-24	8' x 24"	18,600# / sec	47.9
RU-UFS32C-10-30	10' x 30"	18,600# / sec	61.1
RU-UFS32C-8-36	8' x 36"	18,600# / sec	52.5
RU-UFS32C-10-36	10' x 36"	18,600# / sec	64.0
RU-UFS32C-12-36	12' x 36"	18,600# / sec	76.9
RU-UFS32C-16-36	16' x 36"	18,600# / sec	101.4
RU-UFS32C-8-42	8' x 42"	18,600# / sec	54.9
RU-UFS32C-10-42	10' x 42"	18,600# / sec	66.9
RU-UFS32C-12-42	12' x 42"	18,600# / sec	80.3
RU-UFS32C-14-42	14' x 42"	18,600# / sec	90.1
RU-UFS32C-16-42	16' x 42"	18,600# / sec	105.6
RU-XUS32C-16-42-CSII	Reinf.	18,600# / sec	Call
RU-UFM32C-20-42	20' x 42"	23,200# / sec	154.8
RU-UFS32C-8-48	8' x 48"	18,600# / sec	57.4
RU-UFS32C-10-48	10' x 48"	18,600# / sec	70.0
RU-UFS32C-12-48	12' x 48"	18,600# / sec	83.7
RU-UFS32C-16-48	16' x 48"	18,600# / sec	109.9

RACK DECKING IN 4 DESIGNS – CHOOSE THE STYLE YOU NEED

• Call Ted Thorsen for a prompt quotation on the decking style to match your requirements.

PARTICLE BOARD DECKING

Durable, versatile, 5/8" thick particle board decking is pre-cut to size for use with rivet rack or wide span. Ideal for general purpose storage & record storage applications.



PARTICLE BOARD DECKING

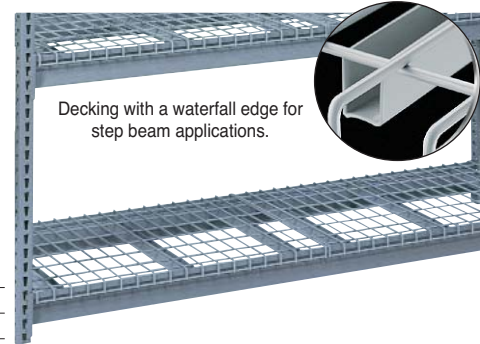
Call for more information & Pricing

Model Number	Size
LY-72504	36" x 12"
LY-72506	36" x 18"
LY-72508	36" x 24"
LY-72524	48" x 12"
LY-72526	48" x 18"
LY-72528	48" x 24"
LY-72532	48" x 36"
LY-72534	48" x 48"

Model Number	Size
LY-72544	60" x 24"
LY-72546	60" x 36"
LY-72548	60" x 48"
LY-72554	72" x 24"
LY-72556	72" x 36"
LY-72558	72" x 48"
LY-72564	96" x 24"
LY-72566	96" x 36"
LY-72568	96" x 48"
LY-72580	69" x 16"
LY-72582	69" x 32"

WIRE MESH RACK DECKING

Constructed of cold-drawn steel, Wire Mesh Rack Decking goes up fast and lasts and lasts. Whether you're upgrading an existing storage system or creating a new one, its no-nuts/no-bolts assembly makes for fast no-nonsense installation. Its steel is protected by an oven-baked, gray enamel paint finish for years of maintenance-free use. Ideally suited for facilities with sprinkler systems, our Wire Mesh Rack Decking meets all fire and safety regulations. The mesh design also keeps items from falling through the rack system. Another mesh plus is it lets you quickly perform visual inventory checks. Finally, the steel mesh gives you greater structural strength than other materials without providing a resting place for dust and dirt.



Decking with a waterfall edge for step beam applications.

WIRE MESH DECKING (2 1/2" x 4" Mesh) For 1 5/8" Step Beam

Call for more information & Pricing

Size D" x W"	Deck Wt. # (lbs.)	Weight Capacity (lbs.)
24 x 46	12.0	2,500
30 x 46	14.6	2,500
36 x 34	15.3	2,500
36 x 46	17.6	2,500
36 x 46	18.9	3,000
36 x 52	19.2	2,500
36 x 52	20.4	3,000
36 x 58	20.4	2,500
36 x 58	21.8	3,000
42 x 34	17.7	2,000
42 x 46	20.3	2,000
42 x 46	21.8	2,500
42 x 46	25.2	3,000
42 x 52	22.0	2,000
42 x 52	23.5	2,500
42 x 52	26.9	3,000

Size D" x W"	Deck Wt. # (lbs.)	Weight Capacity (lbs.)
42 x 58	23.4	2,000
42 x 58	24.8	2,500
42 x 58	28.2	3,000
44 x 46	23.0	2,400
44 x 46	26.6	3,000
44 x 52	24.8	2,400
44 x 52	28.4	3,000
44 x 58	26.3	2,400
44 x 58	29.9	3,000
48 x 34	20.3	2,000
48 x 46	23.4	2,000
48 x 46	26.8	2,500
48 x 46	29.0	2,800
48 x 52	25.3	2,000
48 x 52	28.7	2,500
48 x 52	30.9	2,800
48 x 58	26.8	2,000
48 x 58	30.2	2,500
48 x 58	32.4	2,800

Please call for other sizes & decking options.

- Choose 2 gauge, 4 gauge or 6 gauge
- Select fabric configuration according to the products' size, weight and shapes
- Choose from the industry's widest selection of reinforcing channels (including inverted)
- Choose your coating: Our standard oven-baked gray enamel, powder coated, hot-dipped galvanized, pre-galvanized or electro-zinc plated
- Try our multi-purpose, low-cost decking for lightweight applications (no channels)
- Tell us what you need and we'll make decking just for you, based on capacities, load requirements, load handling, equipment used, spans, widths, deflection requirements, etc.
- Most popular sizes available
- Lightweight, Economical, & Virtually maintenance-free
- Open design for quick visual inventory checks
- Quickly upgrade existing system or create a new one
- Meets fire and safety requirements
- Criss-cross mesh design keeps items from falling through
- Easy installation. No hardware. Just drop in.

Our welded-wire decking for rack storage is designed and manufactured in conformance with ANSI standard MH26.2 for loads that are static and uniformly distributed over the entire surface of the rack deck and within the allowable load capacity rating. Users shall not permit welded-wire rack decking to be used as a walkway or platform for personnel. Loads should be placed onto decking rather than dropped or pushed. FAILURE TO ADHERE TO THESE GUIDELINES COULD RESULT IN SERIOUS INJURY.

CORRUGATED STEEL DECKING FOR RACKS, MEZZANINES & SHELVING

- Common and custom-engineered sizes available
- Up to 30% cost savings over other rack decks
- Painted or galvanized finishes available
- Perforated water drainage holes optional
- Bright white finish available for mezzanine decking
- Ships in dense bundles for lower freight costs
- Smooth, for easy slide in & out of material
- Quick, simple to install in common step-beams
- Meets Factory Mutual and National Fire Protection Association fire codes, with or without drain holes

Common Steel Deck Applications:

- Record Storage
- Bulk Storage
- Furniture
- Carpet & Fabric Storage
- Slip-sheet or Palletized Loads
- Loose, Odd-Shaped Loads
- Tires
- Barrels, Drums & Buckets
- Small Boxes & Totes



Common Sizes & Gauges:

Type & Size	Gauges	Finishes
S-Deck 9/16" H	26 ga. - 20 ga.	Galvanized - Solid or Vented
HD-Deck 7/8" H	26 ga. - 20 ga.	Galvanized - Solid or Vented
B-Deck 1.5" H	24 ga. - 16 ga.	Painted Gray or White, Galvanized - Solid or Perforated Panels
50% Open 1.5" H	22 ga. - 20 ga.	Galvanized & New 50% Pattern
N-Deck 3.0" H	20 ga. - 18 ga.	Galvanized, Painted White - Solid

PLEASE CALL FOR PRICING & INFORMATION.