



## Packaging Information – LTL Packaging

### LTL PACKAGING

#### PERFORMANCE PIPE IPS PRODUCTS BOXES

Size IPS	Nominal OD	Length	(1) Type of Package	Pieces per Package	Feet per Package	Box Size	Pallet Size	Packages per Pallet	Feet per Pallet
½"	0.840"	10'	Box	220	2,200'	16" x 9 ½" x 124"	44" x 127"	6	13,200'
¾"	1.050"	10'	Box	145	1,450'	16" x 9 ½" x 124"	44" x 127"	6	8,700'
1"	1.315"	10'	Box	88	880'	16" x 9 ½" x 124"	44" x 127"	6	5,280'

### LTL PACKAGING

#### PERFORMANCE PIPE CTS PRODUCTS BOXES

Size CTS	Nominal OD	Length	(1) Type of Package	Pieces per Package	Feet per Package	Box Size	Pallet Size	Pkgs per Pallet	Feet per Pallet
½"	0.625"	10'	Box	400	4,000'	16" x 9 ½" x 124"	44" x 127"	6	24,000'
¾"	0.875"	10'	Box	200	2,000'	16" x 9 ½" x 124"	44" x 127"	6	12,000'
1"	1.125"	10'	Box	130	1,300'	16" x 9 ½" x 124"	44" x 127"	6	7,800'
1 ¼"	1.375"	10'	Box	75	750'	16" x 9 ½" x 124"	44" x 127"	6	4,500'

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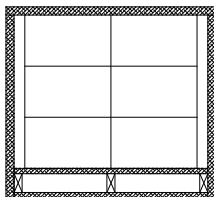
#### PERFORMANCE PIPE METRIC PRODUCTS BOXES

Size CTS	Nominal OD	Length	(1) Type of Package	Pieces per Package	Feet per Package	Box Size	Pallet Size	Packages per Pallet	Feet per Pallet
20 mm	0.790"	10'	Box	125	1,250'	16" x 9 1/2" x 124"	44" x 127"	6	7,500'
25 mm	0.980"	10'	Box	88	880'	16" x 9 1/2" x 124"	44" x 127"	6	5,280'
32 mm	1.260"	10'	Box	54	540'	16" x 9 1/2" x 124"	44" x 127"	6	3,240'
63 mm	2.480"	10'	Box	24	240'	16" x 9 1/2" x 124"	44" x 127"	6	1,440'

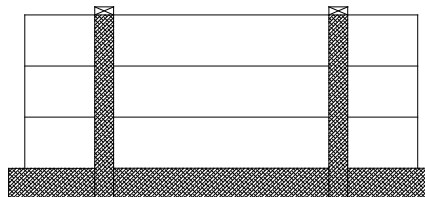
### LTL - BOXES PACKAGING STANDARDS

1. Boxes will be strapped to pallets using 1/2" x .028 polyester banding.
  - a. Ten-foot (10') straight length joints will be strapped, at a minimum, in two (2) equidistant locations. Full pallets will be strapped over the second and top row of boxes.
2. Fork entry on the pallet is to be from the narrow side to facilitate handling in closed vans (ex. LTL carriers).
3. Maximum number of boxes per pallet is 6.
4. Hard sided 2"x 6" boards are required on all full pallet shipments.

### LTL – BOXES PACKAGING CONSTRUCTION



FRONT VIEW



SIDE VIEW



## Packaging Information – LTL Packaging

### LTL PACKAGING

#### PERFORMANCE PIPE IPS PRODUCTS BAGS

Size IPS	Nominal OD	Length	(1) Type of Package	Pieces per Bag	Feet per Bag	Bags per Pallet	Feet per Pallet	Top/Bottom & Side Board Length	Pallet Size
½"	0.840"	10'	Bag	55	550'	24	13,200'	42" / 42" / 31"	44" x 127"
¾"	1.050"	10'	Bag	29	290'	30	8,700'	42" / 42" / 26"	44" x 127"
1"	1.315"	10'	Bag	22	220'	24	5,280'	42" / 42" / 21"	44" x 127"

### LTL PACKAGING

#### PERFORMANCE PIPE CTS PRODUCTS BAGS

Size CTS	Nominal OD	Length	(1) Type of Package	Pieces per Bag	Feet per Bag	Bags per Pallet	Feet per Pallet	Top / Bottom & Side Board Length	Pallet Size
½"	0.625"	10'	Bag	100	1,000'	24	24,000'	42" / 42" / 39"	44" x 127"
¾"	0.875"	10'	Bag	50	500'	24	12,000'	42" / 42" / 29"	44" x 127"
1"	1.125"	10'	Bag	26	260'	30	7,800'	42" / 42" / 25"	44" x 127"
1 ¼"	1.375"	10'	Bag	25	250'	18	4,500'	42" / 42" / 25"	44" x 127"



## Packaging Information – LTL Packaging

### LTL PACKAGING

#### PERFORMANCE PIPE IPS PRODUCTS BUNDLES & BULK PACKS

Size IPS	Nominal OD	Length	Type of Package	Pieces per Package	Feet per Package	Pallet Size	Packages per Pallet	Feet per Pallet
1 ¼"	1.660"	10'	Hard Sided Bundle	153	1,530'	44" x 127"	2	3,060'
1 ½"	1.900"	10'	Hard Sided Bundle	129	1,290'	44" x 127"	2	2,580'
2"	2.375"	10'	Hard Sided Bundle	88	880'	44" x 127"	2	1,760'
3"	3.500"	10'	Soft Sided Bundle	50	500'	44" x 127"	2	1,000'
4"	4.500"	10'	Soft Sided Bundle	29	290'	44" x 127"	2	580'
5"	5.563"	10'	Soft Sided Bundle	15	150'	44" x 127"	2	300'

### LTL PACKAGING

#### PERFORMANCE PIPE IPS PRODUCTS BUNDLES & BULK PACKS

Size IPS	Nominal OD	Length	Type of Package	Pieces per Package	Feet per Package	Pallet Size	Packages per Pallet	Feet per Pallet
6"	6.625"	10'	Soft Sided Bundle	13	130'	44" x 127"	2	260'
7"	7.125"	10'	Soft Sided Bundle	11	110'	44" x 127"	2	220'
8"	8.625"	10'	Soft Sided Bundle	9	90'	44" x 127"	2	180'
10"	10.750"	10'	Bulk Pack	4	40'	44" x 127"	2	80'
12"	12.750"	10'	Bulk Pack	3	30'	44" x 127"	2	60'



## Packaging Information – LTL Packaging

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### LTL PACKAGING

#### PERFORMANCE PIPE IPS PRODUCTS BUNDLES & BULK PACKS

Size IPS	Nominal OD	Length	Type of Package	Pieces per Package	Feet per Package	Pallet Size	Packages per Pallet	Feet per Pallet
14"	14.000"	10'	Bulk Pack	3	30'	44" x 127"	2	60'
16"	16.000"	10'	Bulk Pack	3	30'	44" x 127"	2	60'
18"	18.000"	10'	Bulk Pack	2	20'	44" x 127"	2	40'
20"	20.000"	10'	Bulk Pack	2	20'	44" x 127"	2	40'
21 ½"	21.500"	10'	Bulk Pack	2	20'	44" x 127"	2	40'
22"	22.000"	10'	Bulk Pack	2	20'	44" x 127"	2	40'
24"	24.000"	10'	Bulk Pack	2	20'	44" x 127"	2	40'

### TL – BUNDLE & BULK PACK PACKAGING STANDARDS

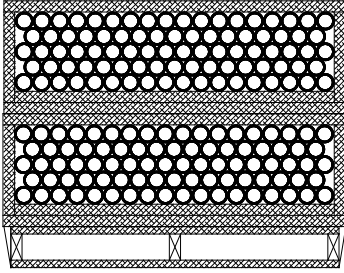
1. Bundles & bulk packs will be strapped to pallets using ¾" x .050 polyester banding.
  - a. Ten-foot (10') straight length joints will be strapped, at a minimum, in two (2) equidistant locations. Banding will be required after each bundle or bulk pack is put on the pallet.
2. Fork entry on the pallet is to be from the narrow side to facilitate handling in closed vans (ex. LTL carriers)
3. There will be no more than two (2) bundles or bulk packs per pallet.

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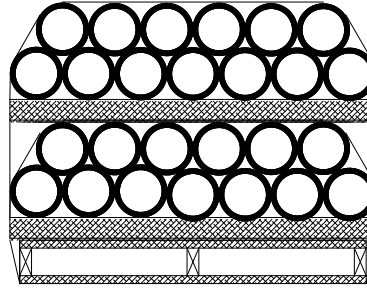
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### LTL – BUNDLES CONSTRUCTION

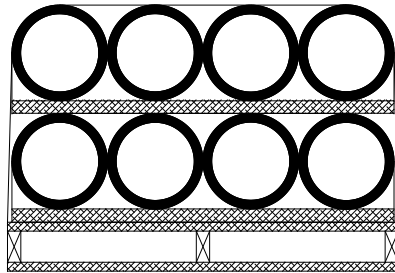


**HARD SIDED BUNDLE**



**SOFT SIDED BUNDLE**

### LTL – BULK PACK CONSTRUCTION



**BULK PACK**