



The Ideal Dunnage Bag





Product/Industry Background

- Paper dunnage bags were the dominant product for shipping via rail for many years
- Synthetic dunnage bags were developed to enhance performance of dunnage bags to meet transportation and user requirements
- Paper dunnage bag manufacturers recognized synthetic dunnage bags would be the way of the future
- Synthetic dunnage bags became the bag of choice in the last 5 years due to both use and performance advantages



Product Objectives

- Manufacture a dunnage bag that would deliver the strength and performance requirements necessary to meet the demands of current and future shipments by rail, truck, and ocean
- Improve upon identified weaknesses and strengths of the paper dunnage bag
- Manufacture the dunnage bags in a controlled environment where most all components of the product are manufactured and assembled under the same roof
- Partner with industry and technology leaders in manufacturing who have the know how to produce a quality product



Market Objectives

- Deliver the best dunnage bag product available in today's market at competitive prices,
- Offer the highest quality service, delivery and support
- Target key markets and consumers of dunnage bags, identifying their needs and meeting them through our brand offering
- Build our brand to be recognized as both quality and value-added
- Position ourselves to be supportive across the Canadian market for local delivery, sales and service
- Offer our customers cost saving opportunities through specialized programs and terms common to our clients



Dunnage Bag Levels/Applications

Level 1	Level 2	Level 3	Level 4	Level 5
<u>Paper Equivalent</u> 2 ply	<u>Paper Equivalent</u> 4 ply	<u>Paper Equivalent</u> 6 ply	<u>Paper Equivalent</u> 8 ply	<u>Paper Equivalent</u> N/A
<u>Transportation Method</u> Truck Vertical or Horizontal in Lateral Voids	<u>Transportation Method</u> Container Vertical or Horizontal	<u>Transportation Method</u> Rail/Ocean Vertical Position in Void (PPPPD)	<u>Transportation Method</u> Rail/Ocean Vertical Position in Void (PPPPD)	<u>Transportation Method</u> Rail/Ocean Horizontal Position in Void (PPPPD)
2-3 PSI Max. air pressure	3-4 PSI Max. air pressure	6 PSI Max. air pressure	8 PSI Max. air pressure	10 PSI Max. air pressure

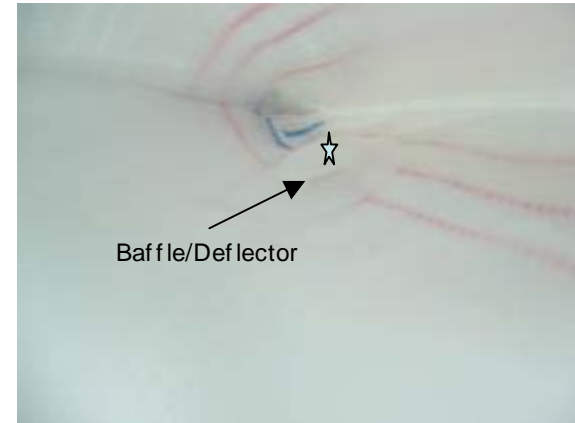


Product Features and Benefits

Valve Assembly



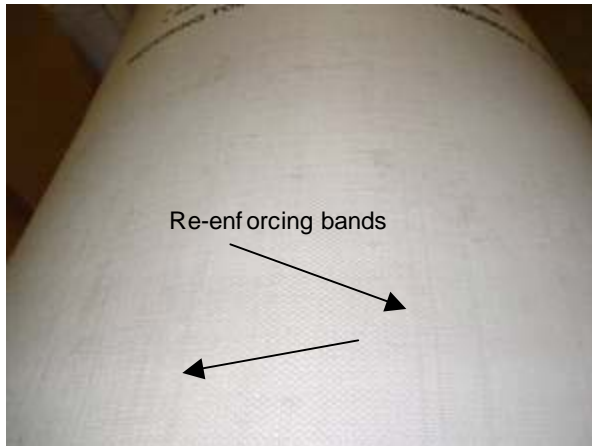
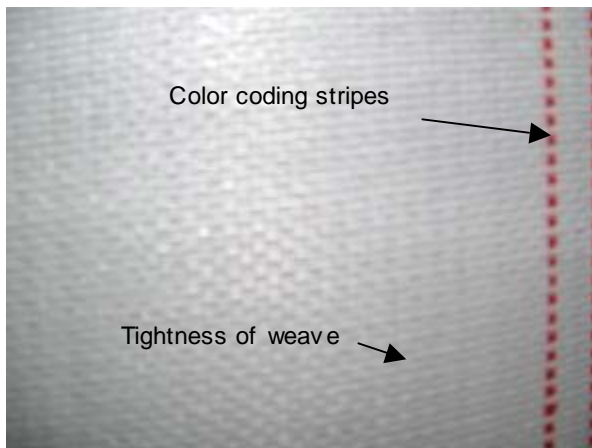
- Spring-loaded check valve to ensure seal is tight and leak proof
- Removable for easy deflation or bag re-positioning
- Patented “baffle” for deflection of high pressure and/or contaminated plant air
- Engineered to withstand extreme “back pressure” when inflated bag is compressed due to impact (Male into Female system).



*Inside View of bag



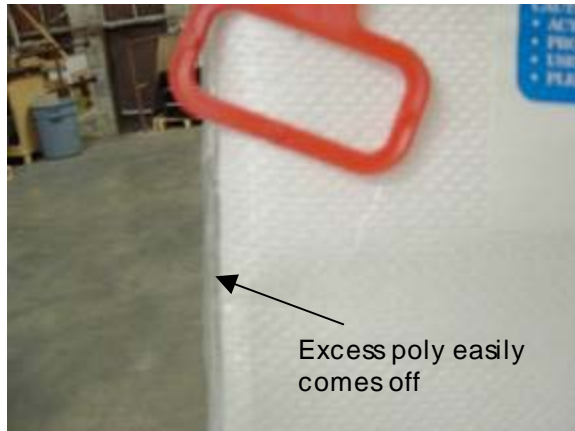
Synthetic Fabric



- Density and tightness of the fabric weave is essential to meet the rigors of certain applications
- Our fabric is produced with only 100% virgin polypropylene resins ensuring quality and performance are never compromised
- Re-enforcing bags as shown in picture #2 are constructed with in the fabric to provide extra strength and support in voids which are not “flat wall”
- Each level of bag are color coded for easy recognition by the shipper
 - Level 1 – Blue
 - Level 2 – Yellow
 - Level 3 – Green
 - Level 4 – Black
 - Level 5 – Red
- International Dunnage is the only dunnage bag manufacturer to produce their own fabric in-house which ensures quality and specifications are consistent



Edge Coating/Seal



- International Dunnage has incorporated a PP coating that does not exceed the edge like most all competitive products
- Polyethylene that separates has much potential for creating a hazardous situation in the forestry market
- Our “clean smooth edge” is much easier on the operators due to the abrasion you may potentially have on your hands from the excess PE coating, which can be sharp at times



Sewing & Thread Quality



- Our heavy duty thread and filler cord are produced in-house from high strength nylon
- The sewing process is automated versus manual ensuring consistency as well as prevents leaking due to puncture of the inner bladder
- The end closure of dunnage bags is key to burst performance as it is the weakest point. Our process and material positions us to be the best.
- The inner polyethylene bladder is heat sealed and sewn at each end of the bag which ensures the bladder does not crease which could cause failure



Production Standards



Serialized poly tags sewn in

- International Dunnage LLC is an ISO 9000 certified manufacturer
- We are the only company that 100% leak tests our dunnage bags prior to packaging and shipping
- Each dunnage bag has its own identification number for tracking purposes
- Our serialized product tags are made from high strength material and the tag is sewn into the bag ensuring not to be damaged or lost
- No other competitive product has such information or system available
- Our ISO system allows the quickest response due to the materials used in construction produced in-house



Product Marking/Printing

LEVEL
INCH ___ X ___
CM ___ X ___

INSTRUCTIONS
1. NEVER USE INTERNATIONAL DUNNAGE BAGS LATER THAN
2. DO NOT EXCEED THE FOLLOWING MAXIMUM PRESSURES:
LEVEL 1 2 PSI 138 BAR
LEVEL 2 4 PSI 276 BAR
LEVEL 3 6 PSI 414 BAR
LEVEL 4 8 PSI 552 BAR
LEVEL 5 10 PSI 690 BAR
LEVEL 6 12 PSI 828 BAR
LEVEL 7 14 PSI 966 BAR
LEVEL 8 16 PSI 1104 BAR
LEVEL 9 18 PSI 1242 BAR
LEVEL 10 20 PSI 1380 BAR
LEVEL 11 22 PSI 1518 BAR
LEVEL 12 24 PSI 1656 BAR
LEVEL 13 26 PSI 1794 BAR
LEVEL 14 28 PSI 1932 BAR
LEVEL 15 30 PSI 2070 BAR
LEVEL 16 32 PSI 2208 BAR
LEVEL 17 34 PSI 2346 BAR
LEVEL 18 36 PSI 2484 BAR
LEVEL 19 38 PSI 2622 BAR
LEVEL 20 40 PSI 2760 BAR
LEVEL 21 42 PSI 2898 BAR
LEVEL 22 44 PSI 3036 BAR
LEVEL 23 46 PSI 3174 BAR
LEVEL 24 48 PSI 3312 BAR
LEVEL 25 50 PSI 3450 BAR
LEVEL 26 52 PSI 3588 BAR
LEVEL 27 54 PSI 3726 BAR
LEVEL 28 56 PSI 3864 BAR
LEVEL 29 58 PSI 4002 BAR
LEVEL 30 60 PSI 4140 BAR
LEVEL 31 62 PSI 4278 BAR
LEVEL 32 64 PSI 4416 BAR
LEVEL 33 66 PSI 4554 BAR
LEVEL 34 68 PSI 4692 BAR
LEVEL 35 70 PSI 4830 BAR
LEVEL 36 72 PSI 4968 BAR
LEVEL 37 74 PSI 5106 BAR
LEVEL 38 76 PSI 5244 BAR
LEVEL 39 78 PSI 5382 BAR
LEVEL 40 80 PSI 5520 BAR
LEVEL 41 82 PSI 5658 BAR
LEVEL 42 84 PSI 5796 BAR
LEVEL 43 86 PSI 5934 BAR
LEVEL 44 88 PSI 6072 BAR
LEVEL 45 90 PSI 6210 BAR
LEVEL 46 92 PSI 6348 BAR
LEVEL 47 94 PSI 6486 BAR
LEVEL 48 96 PSI 6624 BAR
LEVEL 49 98 PSI 6762 BAR
LEVEL 50 100 PSI 6900 BAR
LEVEL 51 102 PSI 7038 BAR
LEVEL 52 104 PSI 7176 BAR
LEVEL 53 106 PSI 7314 BAR
LEVEL 54 108 PSI 7452 BAR
LEVEL 55 110 PSI 7590 BAR
LEVEL 56 112 PSI 7728 BAR
LEVEL 57 114 PSI 7866 BAR
LEVEL 58 116 PSI 8004 BAR
LEVEL 59 118 PSI 8142 BAR
LEVEL 60 120 PSI 8280 BAR
LEVEL 61 122 PSI 8418 BAR
LEVEL 62 124 PSI 8556 BAR
LEVEL 63 126 PSI 8694 BAR
LEVEL 64 128 PSI 8832 BAR
LEVEL 65 130 PSI 8970 BAR
LEVEL 66 132 PSI 9108 BAR
LEVEL 67 134 PSI 9246 BAR
LEVEL 68 136 PSI 9384 BAR
LEVEL 69 138 PSI 9522 BAR
LEVEL 70 140 PSI 9660 BAR
LEVEL 71 142 PSI 9798 BAR
LEVEL 72 144 PSI 9936 BAR
LEVEL 73 146 PSI 10074 BAR
LEVEL 74 148 PSI 10212 BAR
LEVEL 75 150 PSI 10350 BAR
LEVEL 76 152 PSI 10488 BAR
LEVEL 77 154 PSI 10626 BAR
LEVEL 78 156 PSI 10764 BAR
LEVEL 79 158 PSI 10902 BAR
LEVEL 80 160 PSI 11040 BAR
LEVEL 81 162 PSI 11178 BAR
LEVEL 82 164 PSI 11316 BAR
LEVEL 83 166 PSI 11454 BAR
LEVEL 84 168 PSI 11592 BAR
LEVEL 85 170 PSI 11730 BAR
LEVEL 86 172 PSI 11868 BAR
LEVEL 87 174 PSI 12006 BAR
LEVEL 88 176 PSI 12144 BAR
LEVEL 89 178 PSI 12282 BAR
LEVEL 90 180 PSI 12420 BAR
LEVEL 91 182 PSI 12558 BAR
LEVEL 92 184 PSI 12696 BAR
LEVEL 93 186 PSI 12834 BAR
LEVEL 94 188 PSI 12972 BAR
LEVEL 95 190 PSI 13110 BAR
LEVEL 96 192 PSI 13248 BAR
LEVEL 97 194 PSI 13386 BAR
LEVEL 98 196 PSI 13524 BAR
LEVEL 99 198 PSI 13662 BAR
LEVEL 100 200 PSI 13800 BAR
LEVEL 101 202 PSI 13938 BAR
LEVEL 102 204 PSI 14076 BAR
LEVEL 103 206 PSI 14214 BAR
LEVEL 104 208 PSI 14352 BAR
LEVEL 105 210 PSI 14490 BAR
LEVEL 106 212 PSI 14628 BAR
LEVEL 107 214 PSI 14766 BAR
LEVEL 108 216 PSI 14904 BAR
LEVEL 109 218 PSI 15042 BAR
LEVEL 110 220 PSI 15180 BAR
LEVEL 111 222 PSI 15318 BAR
LEVEL 112 224 PSI 15456 BAR
LEVEL 113 226 PSI 15594 BAR
LEVEL 114 228 PSI 15732 BAR
LEVEL 115 230 PSI 15870 BAR
LEVEL 116 232 PSI 16008 BAR
LEVEL 117 234 PSI 16146 BAR
LEVEL 118 236 PSI 16284 BAR
LEVEL 119 238 PSI 16422 BAR
LEVEL 120 240 PSI 16560 BAR
LEVEL 121 242 PSI 16698 BAR
LEVEL 122 244 PSI 16836 BAR
LEVEL 123 246 PSI 16974 BAR
LEVEL 124 248 PSI 17112 BAR
LEVEL 125 250 PSI 17250 BAR
LEVEL 126 252 PSI 17388 BAR
LEVEL 127 254 PSI 17526 BAR
LEVEL 128 256 PSI 17664 BAR
LEVEL 129 258 PSI 17802 BAR
LEVEL 130 260 PSI 17940 BAR
LEVEL 131 262 PSI 18078 BAR
LEVEL 132 264 PSI 18216 BAR
LEVEL 133 266 PSI 18354 BAR
LEVEL 134 268 PSI 18492 BAR
LEVEL 135 270 PSI 18630 BAR
LEVEL 136 272 PSI 18768 BAR
LEVEL 137 274 PSI 18906 BAR
LEVEL 138 276 PSI 19044 BAR
LEVEL 139 278 PSI 19182 BAR
LEVEL 140 280 PSI 19320 BAR
LEVEL 141 282 PSI 19458 BAR
LEVEL 142 284 PSI 19596 BAR
LEVEL 143 286 PSI 19734 BAR
LEVEL 144 288 PSI 19872 BAR
LEVEL 145 290 PSI 20010 BAR
LEVEL 146 292 PSI 20148 BAR
LEVEL 147 294 PSI 20286 BAR
LEVEL 148 296 PSI 20424 BAR
LEVEL 149 298 PSI 20562 BAR
LEVEL 150 300 PSI 20700 BAR
LEVEL 151 302 PSI 20838 BAR
LEVEL 152 304 PSI 20976 BAR
LEVEL 153 306 PSI 21114 BAR
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LEVEL 156 312 PSI 21528 BAR
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LEVEL 158 316 PSI 21804 BAR
LEVEL 159 318 PSI 21942 BAR
LEVEL 160 320 PSI 22080 BAR
LEVEL 161 322 PSI 22218 BAR
LEVEL 162 324 PSI 22356 BAR
LEVEL 163 326 PSI 22494 BAR
LEVEL 164 328 PSI 22632 BAR
LEVEL 165 330 PSI 22770 BAR
LEVEL 166 332 PSI 22908 BAR
LEVEL 167 334 PSI 23046 BAR
LEVEL 168 336 PSI 23184 BAR
LEVEL 169 338 PSI 23322 BAR
LEVEL 170 340 PSI 23460 BAR
LEVEL 171 342 PSI 23598 BAR
LEVEL 172 344 PSI 23736 BAR
LEVEL 173 346 PSI 23874 BAR
LEVEL 174 348 PSI 24012 BAR
LEVEL 175 350 PSI 24150 BAR
LEVEL 176 352 PSI 24288 BAR
LEVEL 177 354 PSI 24426 BAR
LEVEL 178 356 PSI 24564 BAR
LEVEL 179 358 PSI 24702 BAR
LEVEL 180 360 PSI 24840 BAR
LEVEL 181 362 PSI 24978 BAR
LEVEL 182 364 PSI 25116 BAR
LEVEL 183 366 PSI 25254 BAR
LEVEL 184 368 PSI 25392 BAR
LEVEL 185 370 PSI 25530 BAR
LEVEL 186 372 PSI 25668 BAR
LEVEL 187 374 PSI 25806 BAR
LEVEL 188 376 PSI 25944 BAR
LEVEL 189 378 PSI 26082 BAR
LEVEL 190 380 PSI 26220 BAR
LEVEL 191 382 PSI 26358 BAR
LEVEL 192 384 PSI 26496 BAR
LEVEL 193 386 PSI 26634 BAR
LEVEL 194 388 PSI 26772 BAR
LEVEL 195 390 PSI 26910 BAR
LEVEL 196 392 PSI 27048 BAR
LEVEL 197 394 PSI 27186 BAR
LEVEL 198 396 PSI 27324 BAR
LEVEL 199 398 PSI 27462 BAR
LEVEL 200 400 PSI 27600 BAR
LEVEL 201 402 PSI 27738 BAR
LEVEL 202 404 PSI 27876 BAR
LEVEL 203 406 PSI 28014 BAR
LEVEL 204 408 PSI 28152 BAR
LEVEL 205 410 PSI 28290 BAR
LEVEL 206 412 PSI 28428 BAR
LEVEL 207 414 PSI 28566 BAR
LEVEL 208 416 PSI 28704 BAR
LEVEL 209 418 PSI 28842 BAR
LEVEL 210 420 PSI 28980 BAR
LEVEL 211 422 PSI 29118 BAR
LEVEL 212 424 PSI 29256 BAR
LEVEL 213 426 PSI 29394 BAR
LEVEL 214 428 PSI 29532 BAR
LEVEL 215 430 PSI 29670 BAR
LEVEL 216 432 PSI 29808 BAR
LEVEL 217 434 PSI 29946 BAR
LEVEL 218 436 PSI 30084 BAR
LEVEL 219 438 PSI 30222 BAR
LEVEL 220 440 PSI 30360 BAR
LEVEL 221 442 PSI 30498 BAR
LEVEL 222 444 PSI 30636 BAR
LEVEL 223 446 PSI 30774 BAR
LEVEL 224 448 PSI 30912 BAR
LEVEL 225 450 PSI 31050 BAR
LEVEL 226 452 PSI 31188 BAR
LEVEL 227 454 PSI 31326 BAR
LEVEL 228 456 PSI 31464 BAR
LEVEL 229 458 PSI 31602 BAR
LEVEL 230 460 PSI 31740 BAR
LEVEL 231 462 PSI 31878 BAR
LEVEL 232 464 PSI 32016 BAR
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LEVEL 239 478 PSI 32982 BAR
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LEVEL 241 482 PSI 33258 BAR
LEVEL 242 484 PSI 33396 BAR
LEVEL 243 486 PSI 33534 BAR
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LEVEL 246 492 PSI 33948 BAR
LEVEL 247 494 PSI 34086 BAR
LEVEL 248 496 PSI 34224 BAR
LEVEL 249 498 PSI 34362 BAR
LEVEL 250 500 PSI 34500 BAR
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LEVEL 254 508 PSI 35052 BAR
LEVEL 255 510 PSI 35190 BAR
LEVEL 256 512 PSI 35328 BAR
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LEVEL 262 524 PSI 36156 BAR
LEVEL 263 526 PSI 36294 BAR
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LEVEL 266 532 PSI 36708 BAR
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LEVEL 281 562 PSI 38778 BAR
LEVEL 282 564 PSI 38916 BAR
LEVEL 283 566 PSI 39054 BAR
LEVEL 284 568 PSI 39192 BAR
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LEVEL 287 574 PSI 39606 BAR
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LEVEL 289 578 PSI 39882 BAR
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LEVEL 479 958 PSI 66102 BAR
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LEVEL 494 988 PSI 68172 BAR
LEVEL 495 990 PSI 68310 BAR
LEVEL 496 992 PSI 68448 BAR
LEVEL 497 994 PSI 68586 BAR
LEVEL 498 996 PSI 68724 BAR
LEVEL 499 998 PSI 68862 BAR
LEVEL 500 1000 PSI 69000 BAR

CAUTION
NEVER USE INTERNATIONAL USE
1. USE EYE PROTECTION WHEN FILLING
2. DO NOT STAND DIRECTLY OVER OR IN FRONT OF BAG WHILE FILLING
3. USE REGULATOR AND FILTER PLUG LINE
4. PROTECT AGAINST PUNCTURE BY THE USE OF APPROPRIATE SUPPORT MATERIAL, BEHIND BAGGING PRODUCT
5. SECURE PUNCTURE TO OCCUR UNDER THE TOP PORTION OF THE BAG

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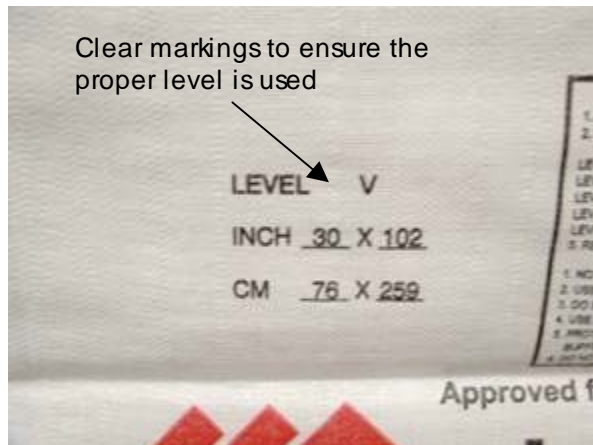
SECURE IT RIGHT
U.S. DESIGN

- AIR TIGHT
- SUPER STRONG
- SUPER LIGHT
- WATER PROOF



- International Dunnage is the only manufacturer to print on the bag
- All pertinent information such as dimensions, level, contact information, proper application, etc is printed in both official languages
- Most competitive bags have no markings making it difficult to know what level of bag you are using
- Health and safety information like PSI maximums are printed which instruct the operator according to the level of bag. Typically competitive bags have an instruction sheet inserted in the shipping container which may become misplaced.
- On our level 5 bags we also print clearly our **approval of horizontal use in roll paper applications**

SECURING TODAY'S LOADS WITH TOMORROW'S TECHNOLOGY





Inflator Tools/Tips/Accessories



- Our inflation equipment meets the needs of our industry
- Simple, safe and rugged
- We have developed two styles of inflator tips (high strength nylon and milled aluminum). We also have long hose options available.
- Easy to use there are no notches to line up, simply position the tip over the valve and push the sleeve on the tip down. It will be firmly locked in place until you manually pull the sleeve back
- We offer “pencil gauges” to perform verification checks on bags rather than apply the complete tool

Note: Nylon tips are supplied “No Charge”!



Application Training



- Industry specialists with 30+ years of experience available to educate and train shipping staff on preparing load plans, deploying dunnage materials effectively, safe and best practices
- Comprehensive
- Consistent programs
- Hands on
- Effective
- Positive results