

SUMMIT

Metal Products, Inc.

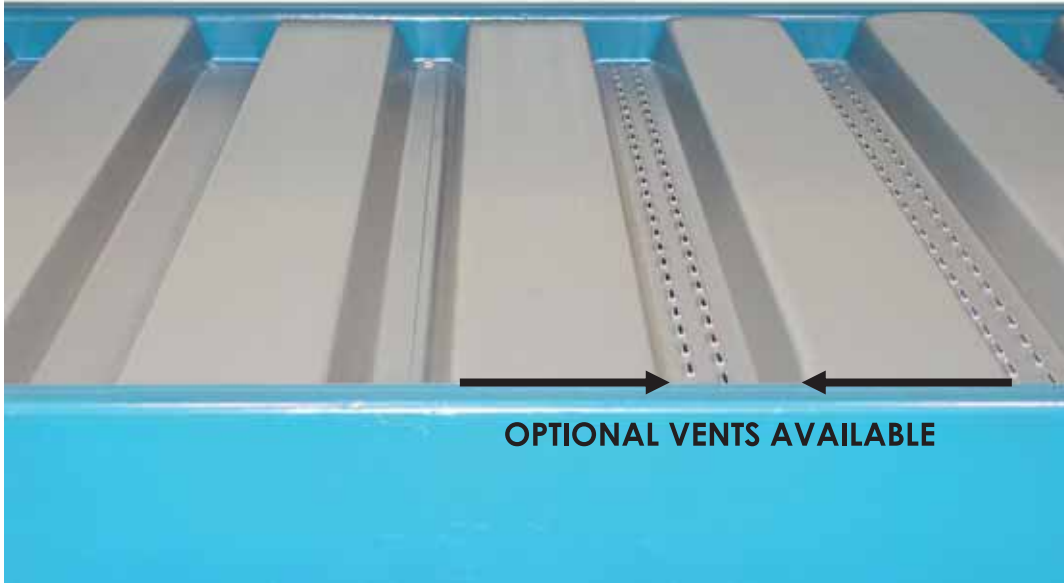
LEADERS IN RACK AND MEZZANINE DECK



1351 Nagel Blvd.
Batavia, IL 60510

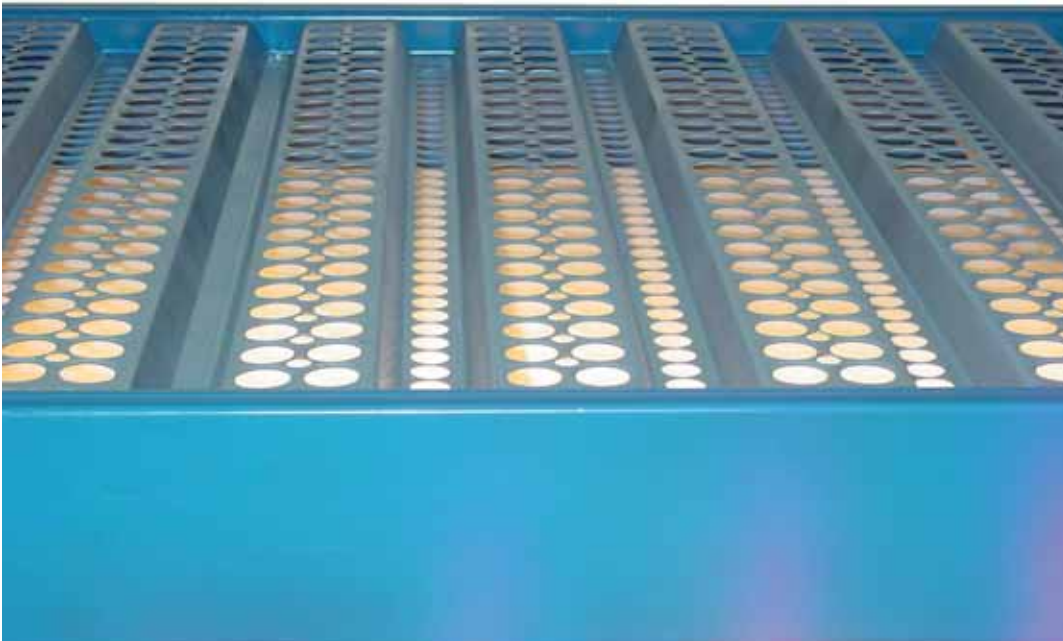
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RACK DECK



- CORRUGATED B-DECK
- INSTALLED IN THE STEP DOWNS OF RACK BEAMS
- FLUSH WITH TOP OF BEAM
- PRODUCT NESTS FOR LOWER SHIPPING COSTS
- 18, 20, 22 & 24 GA
- PAINTED OR GALVANIZED
- CUTTING TOLERANCE $+0 -\frac{1}{8}$ "
- SMOOTH TOP SURFACE ALLOWS PRODUCTS TO SLIDE ON AND OFF EASILY
- VENTS ALLOW WATER TO DRAIN THROUGH LEVELS

RAIN DECK



- OVER 50% OPEN AREA
- CORRUGATED B-DECK
- EXCEEDS EXISTING FIRE CODE REQUIREMENTS
- INSTALLED IN THE STEP DOWNS OF RACK BEAMS
- FLUSH WITH TOP OF BEAM
- PRODUCT NESTS FOR LOWER SHIPPING COSTS
- PAINTED OR GALVANIZED
- SMOOTH TOP SURFACE ALLOWS PRODUCTS TO SLIDE ON AND OFF EASILY
- LENGTHS UP TO 240"

GRATE LOCK



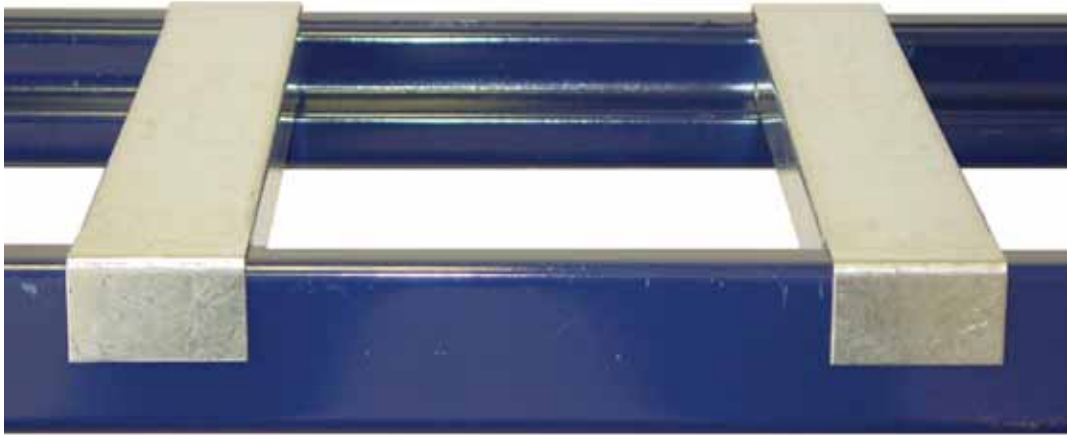
- FLAT OPEN STORAGE LEVEL
- INSTALLED IN THE STEP DOWNS OF RACK BEAMS
- FLUSH WITH TOP OF BEAM
- SMOOTH TOP SURFACE ALLOWS PRODUCTS TO SLIDE ON AND OFF EASILY
- STANDARD WIDTHS: 6", 9", 12"
- 14, 16 & 18 GA
- TYPICAL FINISH GALVANIZED
- LOWER PROFILE AVAILABLE FOR SHELVING SYSTEMS
- ALSO CAN BE USED AS A GRATING SURFACE FOR WALKWAYS OR CATWALKS

COVER PLATES



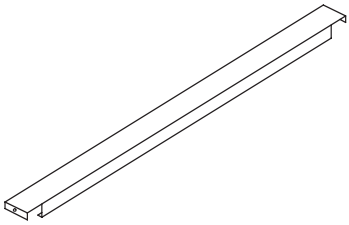
- SOLID STORAGE LEVEL
- INSTALLED IN THE STEP DOWNS OF RACK BEAMS
- FLUSH WITH TOP OF BEAM
- SMOOTH TOP SURFACE ALLOWS PRODUCTS TO SLIDE ON AND OFF EASILY
- FITS OVER RACK DECK OR CROSSBARS FOR SUPPORT
- CONTAINS FRONT & BACK WATERFALL EDGES
- WATERFALL EDGES CAN BE FORMED TO FALL INSIDE OR OUTSIDE OF RACK BEAMS
- 10 TO 22 GA STEEL
- TYPICAL FINISH GALVANIZED
- AVAILABLE PERFORATED

CROSSBARS

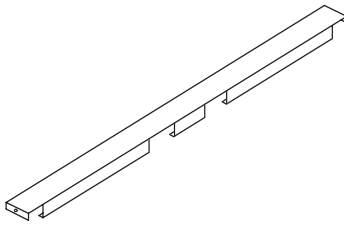


- DOUBLE FLANGE (SHOWN)
- NOTCHED DESIGN
- HAT CHANNEL DESIGN
- STRUCTURAL (BOX BEAM)
- TEK SCREW PILOT HOLES AVAILABLE UPON REQUEST
- CUSTOM SIZES AND DESIGNS ARE ALSO AVAILABLE

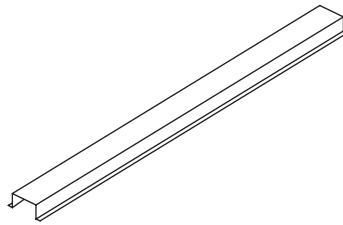
DOUBLE FLANGE



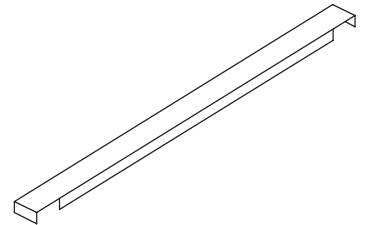
NOTCHED DESIGN



HAT CHANNEL



STRUCTURAL (BOX BEAM)



PERFORATED PLATES

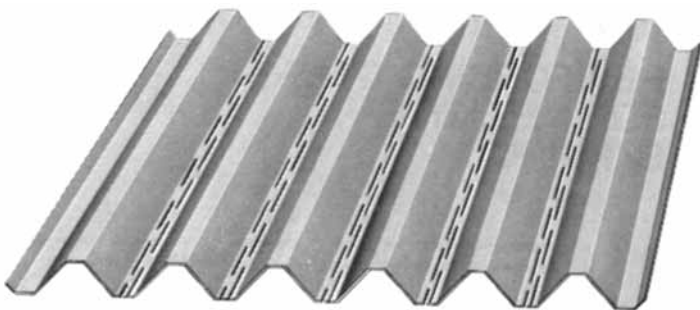


- FLAT OPEN STORAGE LEVEL
- PERFORATION PATTERNS AVAILABLE OVER 50% OPEN TO EXCEED EXISTING FIRE CODE REQUIREMENTS
- INSTALLED IN THE STEP DOWNS OF RACK BEAMS
- FLUSH WITH TOP OF BEAM
- SMOOTH TOP SURFACE ALLOWS PRODUCTS TO SLIDE ON AND OFF EASILY
- FITS OVER RACK DECK OR CROSSBARS FOR SUPPORT
- CONTAINS FRONT & BACK WATERFALL EDGES
- WATERFALL EDGES CAN BE FORMED TO FALL INSIDE OR OUTSIDE OF RACK BEAMS

MEZZANINE DECK



- DECK LAYOUTS PROVIDED TO ELIMINATE OR MINIMIZE FIELD CUTTING
- DECK WIDTHS UP TO 36" (TYPICALLY IN 6" INCREMENTS)
- WHITE PRIMER UNDERSIDE FOR EXCELLENT LIGHT REFLECTIVITY
- GRAY PRIMER OR GALVANIZED ALSO AVAILABLE
- DECK ACCESSORIES INCLUDING:
 - FLAT PLATE (BUTT STRIPS)
 - CLOSURE (ANGLES)
 - FILLER PIECES (Z CLOSURE)
 - TEK SCREWS
 - SUMP PANS
 - CONCRETE POUR STOPS
 - CUSTOM METAL FABRICATED PARTS



SHELVING DECK




**9/16" & 1" High Profiles
For Shelving Systems**

SPECIFICATIONS

B1.5" SOLID RACK & MEZZANINE DECK SECTION PROPERTIES (PER FOOT OF WIDTH)

| GAGE | THICKNESS (IN) | WEIGHT (PSF) | |
|------|-------------------|--------------|-------|
| | | PAINTED | GALV. |
| 22 | 0.0295 | 1.7 | 1.8 |
| 20 | 0.0358 | 2.1 | 2.2 |
| 18 | 0.0474 | 2.8 | 2.9 |

B1.5" MEZZANINE DECK ALLOWABLE UNIFORM TOTAL LOAD (PSF)

| NUMBER OF SPANS | GAGE | 36" | 42" | 48" | 54" | 60" | 66" |
|--|------|-----|-----|-----|-----|-----|-----|
|  ONE SPAN | 22 | 284 | 209 | 160 | 126 | 95 | 74 |
| | 20 | 352 | 259 | 198 | 157 | 120 | 92 |
| | 18 | 400 | 352 | 270 | 213 | 167 | 128 |
|  TWO SPAN | 22 | 270 | 211 | 162 | 129 | 105 | 87 |
| | 20 | 349 | 260 | 200 | 159 | 129 | 107 |
| | 18 | 400 | 348 | 269 | 213 | 174 | 144 |
|  THREE SPAN | 22 | 307 | 259 | 200 | 160 | 130 | 108 |
| | 20 | 400 | 319 | 247 | 197 | 160 | 133 |
| | 18 | 400 | 400 | 331 | 264 | 215 | 179 |

B1.5" SOLID RACK DECK ALLOWABLE UNIFORM TOTAL LOAD (PSF)

| RACK DEPTH | 36" | 42" | 44" | 48" | 54" | 60" | 66" |
|------------|-----|-----|-----|-----|-----|-----|-----|
| 22 GA | 321 | 251 | 231 | 196 | 153 | 119 | 93 |
| 20 GA | 397 | 311 | 286 | 243 | 190 | 149 | 117 |
| 18 GA | 522 | 411 | 379 | 323 | 255 | 201 | 158 |

RAIN DECK (50% OPEN AREA) ALLOWABLE UNIFORM TOTAL LOAD (PSF)

| RACK DEPTH | 36" | 42" | 44" | 48" | 54" | 60" | 66" |
|------------|-----|-----|-----|-----|-----|-----|-----|
| 22 GA | 225 | 176 | 162 | 137 | 107 | 84 | 65 |
| 20 GA | 278 | 218 | 200 | 170 | 133 | 104 | 82 |

EXAMPLE CALCULATION 1:

MEZZANINE DECK IS SUPPORTED BY THREE SPANS OF BAR JOISTS SPACED 5'-6" APART. WHAT WOULD BE THE THINNEST GAGE OF B1.5" MEZZANINE DECK ALLOWABLE TO ACHIEVE 125 POUNDS PER SQUARE FOOT UNIFORM LOADING CAPACITY?

STEP 1: LOCATE THE COLUMN LABELED 5'-6" (66")

STEP 2: MATCH THE 5'-6" COLUMN WITH THE ROWS PERTAINING TO A THREE SPAN CONDITION.

STEP 3: FIND THE LOWEST NUMBER ABOVE 125 PSF IN THE ABOVE MENTIONED REGION.

133 LBS/SF (PSF) = 20 GAGE MATERIAL

EXAMPLE CALCULATION 2:

A PALLET RACK LEVEL IS 42"D X 96". WHAT WOULD BE THE THINNEST GAGE OF B1.5" SOLID RACK DECK ALLOWABLE TO ACHIEVE A UNIFORM STORAGE LEVEL CAPACITY OF 5,000 LBS?

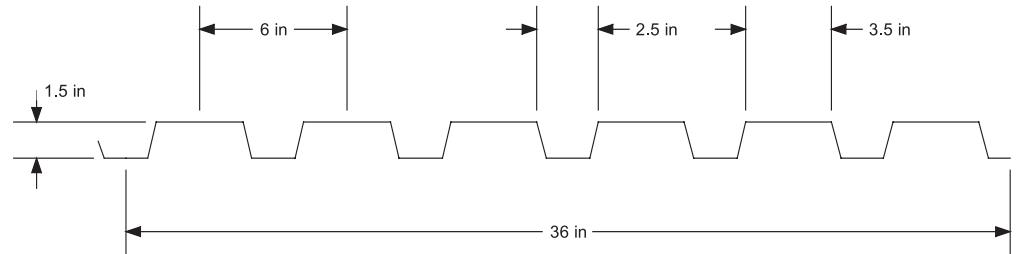
STEP 1: DETERMINE THE AREA (SF) OF THE STORAGE LEVEL
 $42" \times 96" = 4,032 \text{ IN}^2 = 28 \text{ SF}$

STEP 2: LOCATE THE COLUMN FOR 42"D RACK DEPTH IN THE TABLE ABOVE. THEN MULTIPLY THE AREA OF THE STORAGE LEVEL (STEP 1) BY THE ALLOWABLE UNIFORM TOTAL LOADS FOR EACH GAGE OF MATERIAL UNTIL YOU ACHIEVE THE DESIRED CAPACITY.

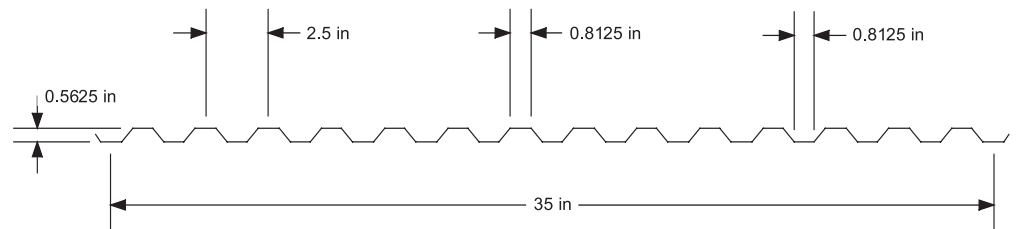
28 SF x 251 LBS/SF (PSF) = 7,028 LBS
22 GAGE IS ACCEPTABLE

OTHER DECK PRODUCTS

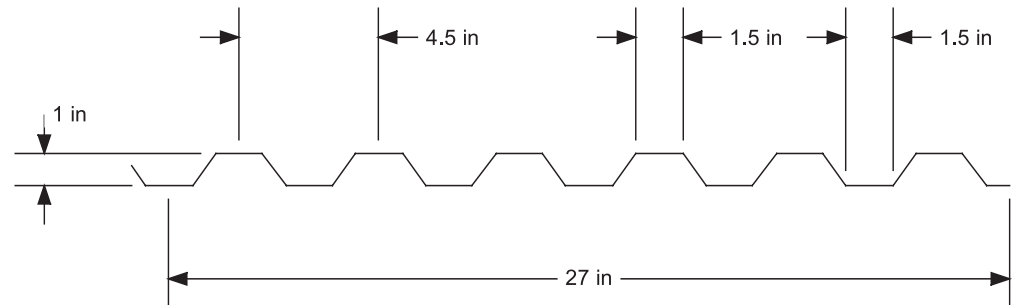
B-DECK



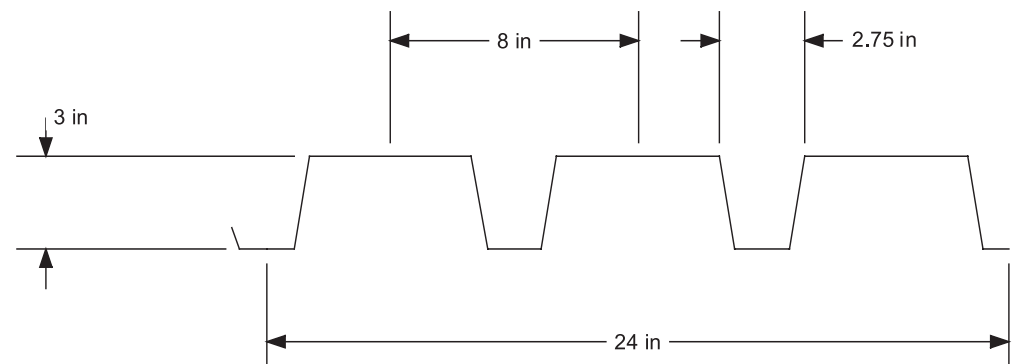
9/16" SHELVING DECK



1" SHELVING DECK



N-DECK



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