

# SECTION 12 59 00

(SYSTEM 1224 BY B+N INDUSTRIES)



## PART 1 - GENERAL

### 1.1 SECTION INCLUDES

- Modular shelving systems with integrated led lighting
- Floor-to-ceiling and floor-to-wall mounting configurations
- Associated accessories including shelves, cabinets, and display components

### 1.2 REFERENCE STANDARDS

- Astm e 84 - standard test method for surface burning characteristics of building materials
- Ansi a208.1 - Particleboard standards
- Ansi/nema ld3 - high-pressure decorative laminates
- Ul listed electrical components for led lighting systems

### 1.3 SUBMITTALS

- Product data: manufacturer's specifications and performance data
- Shop drawings: layout drawings showing configuration, dimensions, and electrical connections
- Samples: 6-inch square samples of each finish to be used
- Warranty documentation
- Installation instructions and electrical schematics

### 1.4 QUALITY ASSURANCE

- Installer qualifications: general contractor with at least 3-5 year's experience with modular displays
- Electrical work: performed by licensed electrician per local codes
- Testing: led lighting systems to be tested and certified operational

### 1.5 WARRANTY

- Manufacturer's limited warranty: 1 year on structural components
- Led lighting components: 1 year
- Electrical drivers and modules: 1 year

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- Basis of design: System 1224 by B+N Industries, Burlingame, CA
- Tel: (800) 350-4127, WWW.BNIND.COM
- Substitutions: no substitutions permitted without prior written approval.

### 2.2 SYSTEM DESCRIPTION

- Modular shelving system with clear or black anodized aluminum uprights
- Integrated 24vdc led lighting system with 3400k, cri90 performance
- Micro-adjustable internal hardware for flexible configuration
- Floor-to-wall height range: 96" – 102"
- Floor-to-ceiling height range: 127.5" – 132.5"

### 2.3 UPRIGHT COMPONENTS

- Load capacity: steel pins – 300 lbs at pin base
- Material: clear or black anodized aluminum construction
- Dimensions: 2" W x 1.75" D x 96" H
- Electrical: internal power distribution via copper strip one-sided
- Power limitation: 96w maximum per upright

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## 2.4 SHELVING COMPONENTS

- Wood shelves: mdf with white oak laminate finish, 24" and 48" widths, 14" depth, integrated led strip on underside (electrified versions)
- Metal shelves: 20 gauge steel with matte white powder coat finish, 24" and 48" widths, 14" depth, integrated led strip on underside (electrified versions)

## 2.5 FREE-STANDING FIXTURES

- Material: 24"w x 54"h x 30"d steel frame with matte white powder coat finish
- Hardware: GX60PS metal/pvc twin wheel casters with brake
- Configurations: single frame units, double-sided

## 2.6 ELECTRICAL SYSTEM

- Power supply: 96w mean-well driver, OWA-90U-24-P1M, c-ul listed
- LED specifications: 3400k color temperature, cri90
- Voltage: 24vdc distribution system
- Connection: splitter with female DC jack, 2 piece terminal, SL male connection 18AWG
- Installation: low-voltage wiring throughout system

## 2.7 FINISHES

- Uprights: clear or black anodized aluminum
- Wood components: wood grain laminates, or matte white
- Metal components: matte white powder coat
- Hardware: satin chrome or matte black finish on clothes rods and accessories

# PART 3 - EXECUTION

## 3.1 EXAMINATION

- Confirm structural adequacy of mounting surfaces
- Verify electrical power availability for led systems
- Check for plumb and level conditions

## 3.2 INSTALLATION

- Install in accordance with manufacturer's instructions and approved shop drawings
- Mount uprights with proper tensioning to ceiling or furring strips for wall structure
- Install electrical connections per local electrical codes
- Test all led lighting systems before final acceptance
- Adjust all components for proper fit and operation

## 3.3 ELECTRICAL CONNECTIONS

- Provide dedicated 120v circuit for each system
- Install appropriate electrical disconnect switches
- Test all lighting circuits and controls
- Coordinate with electrical contractor for power connections

## 3.4 CLEANING AND PROTECTION

- Clean all surfaces with manufacturer-approved cleaning products
- Remove protective films and packaging materials
- Protect installed systems during remainder of construction

## 3.5 SYSTEM STARTUP

- Demonstrate operation of all adjustable components
- Provide operating instructions to owner
- Schedule any required maintenance procedures