



**DASNY**

**ANDREW M. CUOMO**  
Governor

**ALFONSO L. CARNEY, JR.**  
Chair

**REUBEN R. MCDANIEL, III**  
President & CEO

# SECTION A

**ALBANY (HEADQUARTERS):** 515 Broadway, Albany, NY 12207 | 518-257-3000

**NEW YORK CITY:** One Penn Plaza, 52nd Floor, New York, NY 10119 | 212-273-5000

**BUFFALO:** 539 Franklin Street, Buffalo, NY 14202 | 716-566-4400

**ROCHESTER:** 3495 Winton Place, Building C, Suite 1, Rochester, NY 14623 | 585-461-8400

**DORMITORY AUTHORITY STATE OF NEW YORK**

**WE FINANCE, DESIGN & BUILD  
NEW YORK'S FUTURE.**

[www.dasny.org](http://www.dasny.org)



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<b><u>BID NO.:</u></b> 681	<b><u>PROJECT NAME &amp; LOCATION:</u></b> Various SUNY Campuses Across New York State
<b><u>Description:</u></b> Furnish and Deliver Mattresses	
<b><u>Bid Open Location:</u></b> DASNY 515 Broadway, Albany, NY 12207	
<b><u>Bid Open Date:</u></b> September 8, 2020	<b><u>Contact:</u></b> Stacie Craft <a href="mailto:scraft@dasny.org">scraft@dasny.org</a>
<b><u>Bid Open Time:</u></b> 2:30 p.m.	

### **NOTICE TO BIDDERS**

#### **MAIL BIDS EARLY**

Sealed bids will be received by DASNY at the above address for the items listed in the attached Bid Breakdown and Schedule. When submitting your bid you must:

1. Prepare your bid on the attached Bid Breakdown and Schedule. Return one signed original of the Bid Breakdown and Schedule
2. If your bid deviates from Specifications, explain such deviations or qualifications on your letterhead, setting forth therein such explanations, and attach them to the Bid Breakdown and Schedule.
3. Submission of a bid constitutes full knowledge and acceptance of all provisions of the Notice to Bidders, all information referenced in the Purchasing General Conditions, Supplemental and Detailed Specifications, the Bid Submission and any Supplemental General Requirements contained herein, as well as any addenda issued in relation to the Invitation for Bids.
4. Each bid shall bear on the outside of the envelope the name of the bidder, address, telephone number and designated as a bid for the following:  
DASNY Bid No. 681 - Furnish and Deliver Mattresses  
Bid Opening Date: September 8, 2020 @ 2:30PM  
Return to:  
DASNY  
Attn: Purchasing Unit  
515 Broadway  
Albany, NY 12207-2964



Bid No.: 681

When a sealed bid is placed inside another delivery jacket, the bid delivery jacket must be clearly marked on the outside “**BID ENCLOSED**” and “**ATTENTION: PURCHASING UNIT**”. The Dormitory Authority will not be responsible for receipt of bids which do not comply with these instructions.

5. Mail bid responses early in order for them to be received before the time of the bid opening. **Late bids will be automatically rejected.** Individuals submitting bids in person or by private delivery services should allow sufficient time for processing through building security to assure that the bids are received prior to the deadline for submitting bids. All individuals who plan to attend bid openings will be required to present government-issued picture identification to building security officials and obtain a visitor’s pass prior to attending the bid opening.
  
6. In accordance with State Finance Law § 139-j and 139-k, this solicitation includes and imposes certain restrictions on communications between Dormitory Authority personnel and an Offerer during this procurement process. Designated contact for this solicitation is: Stacie Craft, at Dormitory Authority – State of New York, 515 Broadway, Albany, NY 12207, (518) 257-3085. Contacts made to other Dormitory Authority Personnel regarding this procurement may disqualify the Offerer and affect future procurements with governmental entities in the State of New York. Please refer to the Authority’s website [www.dasny.org](http://www.dasny.org) for Authority policy and procedures regarding this law, or the NYS office of General Services website [www.ogs.ny.gov/BU/PC/](http://www.ogs.ny.gov/BU/PC/) for more information about this law.



Bid No.: 681

**If you are not submitting a bid it is requested that you complete and return the lower portion of this form**

*(Please check all that apply and provide comments in the space provided, if necessary)*

- We are not Submitting a bid.
- We Request removal of our name from the mailing list.
- Location of the job site.
- Commodity is not carried by our company.
- Scope is too large.

Other/Additional Explanation: \_\_\_\_\_  
\_\_\_\_\_

NAME OF BIDDER: \_\_\_\_\_

ADDRESS : \_\_\_\_\_

Street Telephone	City	State	Zip
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\_\_\_\_\_  
Signature of Bidder

\_\_\_\_\_  
Official Title

## **CLAUSES PURSUANT TO THE OMNIBUS PROCUREMENT ACT OF 1992**

It is the policy of New York State to maximize opportunities for the participation of New York State business enterprises, including minority and woman-owned business enterprises as bidders, subcontractors and suppliers on its procurement contracts.

Information on the availability of New York subcontractors and supplies is available from:

Empire State Development  
Small Business Division  
30 South Pearl Street, 7<sup>th</sup> Floor  
Albany, NY 12207  
Phone: (800) 782-8369

A directory of minority and woman-owned business enterprises is available from:

Empire State Development  
Division of Minority and Women Business Development  
30 South Pearl Street  
Albany, NY 12207  
Phone: (518) 292-5250

Online Directory: <https://ny.newnycontracts.com/FrontEnd/VendorSearchPublic.asp>

DASNY maintains a directory of minority and women-owned business enterprises:  
<http://www.dasny.org/construc/mwsberreg/index.php>

The contractor acknowledges notice that New York State may seek to obtain offset credits from foreign countries as a result of this contract and agrees to cooperate with the State in these efforts.

DASNY encourages the use of recycled Materials in the manufacturing process. To that end, the recycled product must meet the same codes, specifications and standards the non-recycled materials do, including requirements for cost, installation, aesthetics, availability and maintenance.

The Omnibus Procurement Act of 1992 and § 2879 of the NYS Public Authorities Law require that by signing this bid, contractors certify that whenever the total bid amount is greater than \$1 million:

1. The contractor has made reasonable efforts to encourage the participation of New York State Business Enterprises as suppliers and Subcontractors on this project, and has retained the documentation of these efforts to be provided upon request to the State. If the contractor determines that NYS business enterprises are not available to participate on the contract as subcontractors or suppliers, the contractor shall provide a statement indicating the method by which such determination was made. If the contractor does not intend to use subcontractors, contractor shall provide a statement verifying such;
2. The contractor has complied with the Federal Equal Opportunity Act of 1972 (PL 92-261), as amended;
3. The contractor agrees to make reasonable efforts to provide notification to New York State residents of employment opportunities on this project through listing any such positions with the Job Service Division of the New York State Department of Labor, or providing such notification in such manner as is consistent with existing collective bargaining contracts or agreements. The contractor agrees to document these efforts and to provide said documentation to the State upon request;

**DASNY is required by law to notify the NYS Department of Economic Development of any procurement contract for one million dollars or more that is to be awarded to an out-of-state vendor. This notice must be done simultaneous to the notification of award provided to the vendor. A purchase order or contract cannot be issued until fifteen (15) days after such notification is provided.**



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## GENERAL SPECIFICATIONS

- (1) The enclosed Purchasing General Conditions are hereby incorporated by reference. Submission of a bid response shall constitute acceptance of such conditions. Any exceptions/clarifications/qualifications to these conditions or other specifications and/or requirements contained herein must be clearly stated in the bid response and, depending upon the nature of such, may be grounds for rejection of your bid.
- (2) Bids must be submitted in the bidder's full legal name, or the bidder's full legal name plus a registered assumed name, if any.
- (3) All NYS bidders are required to be registered to do business with the NYS Department of State or their local County Clerk, whichever is applicable.
- (4) All out-of-state bidders will be required to provide proof of registration to do business in their state. All out-of-state bidders that "do business in New York State" **MUST BE REGISTERED WITH THE NYS DEPARTMENT OF STATE**. Please contact the NYS Department of State at (518) 473-2492. Information is available at the DOS website: [www.dos.ny.gov](http://www.dos.ny.gov)
- (5) DASNY is required by law to notify the Empire State Development of any procurement contract for one million dollars or more that is to be awarded to an out-of-state vendor. This notice must be done simultaneous to the notification of award provided to the vendor. A purchase order or contract cannot be issued until fifteen (15) days after such notification is provided.
- (6) Empire State Development is required by law to identify states and other jurisdictions that impose preferences or other penalties against New York bidders. DASNY is precluded from soliciting bids or entering into procurement contracts with companies that have their principal place of business located in one of the listed jurisdictions, unless the procurement is for a product that is substantially manufactured in New York State or the services are to be performed in New York State. Currently, this list of jurisdictions includes the states of Alaska, Hawaii, Louisiana, South Carolina, West Virginia and Wyoming.
- (7) Unless otherwise indicated, any reference to brands or model numbers is intended to establish a standard. Items of all manufacturers will be considered, provided the item is determined to meet or exceed the required specification. DASNY's decision as to whether a substitute item meets specification will be final. Your attention is directed to Article II-7, Page 5 of the General Conditions. In order to evaluate substitute items, detailed specifications must be submitted for any product that is other than the one(s) specified in the bid.



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## GENERAL SPECIFICATIONS CONTINUED

- (8) Unless otherwise noted, guarantee on all items is to be one year as detailed in Article XVI of the General Conditions
- (9) All upholstered furniture and drapery panels and lining must meet strict flammability requirements. Standards applicable to this bid, if any, will be delineated in the Detailed Specifications.
- (10) LABOR/TRADES - Any labor, materials or means whose employment, or utilization during the course of this contract, shall not in any way cause or result in strike, work stoppages, delays, suspension of work; or similar troubles by workers employed by this contractor or his subcontractors, or by any of the trades working in or about the buildings and premises where work is being performed. Any violation by the contractor of this requirement may in the sole judgment of DASNY be considered as proper and sufficient cause for declaring the contractor to be in default, and for the owner to take action against him as set forth in the Purchasing General Conditions, Article VIII, "Termination", or such other action as DASNY may deem proper.
- (11) Bid results are available on the DASNY website ([www.DASNY.org](http://www.DASNY.org)). Bid results will not be given over the phone.
- (12) If you are a NYS Certified Minority or Women Owned Business, please include a copy of your certification with the bid.





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## SUPPLEMENTAL SPECIFICATIONS

**The following items are attached for informational purposes. Referenced documents need not be returned with the proposal.** These documents are only applicable to the successful bidder and the ensuing procurement contract. Documents are only applicable to the successful bidder and the ensuing procurement contract. Documents applicable to the procurement that will result from this Invitation for Bids are designated by a check box (☒). Unless otherwise indicated, the referenced documents are located at the end of this Invitation for Bids.

- Purchasing General Conditions** – The DASNY Purchasing General Conditions contains terms and conditions of purchases made by DASNY. It is recommended that this document be reviewed fully.
- M/WBE Utilization Plan and Request for Waiver** - Minority and Women-Owned Business Enterprise (M/WBE) goals for this project are 0% and 0%, respectively. The successful bidder shall be required to complete a Utilization Plan or Request for Waiver, to be approved by DASNY’s Opportunity Programs Group. Reference Purchasing General Conditions, Article XIX, Affirmative Action for Contracts Mr. Michael Clay, DASNY Opportunity Programs Group at (518) 257-3464, is available to assist all bidders in attaining these goals. *Reference the enclosed “Good Faith Efforts Guidelines”.*
- Supplemental General Requirements** – Attached (if applicable) are the Supplemental General Requirements (SGRs) which provide important logistical information and additional conditions which govern this procurement. Please read these SGRs carefully.
- Form of DASNY Contract** – The procurement resulting from the Invitation for Bids will be executed through a DASNY purchase order and a related contract. The contract executed with the successful bidder will be in the same substantial form as the attached “Form of Contract”. Note that this Invitation for Bids and any response to such will be annexed as binding terms of the purchase agreement.
- Certificate of Insurance** (*sample enclosed*) – The successful bidder will be required to provide a Certificate of Insurance pursuant to Article XIV of the enclosed Purchasing General Conditions. The certificate shall name DASNY and other designated parties as additional insureds.

**SUPPLEMENTAL SPECIFICATIONS CONTINUED**

- Worker’s Compensation / Disability Insurance** – The successful proposer will be required to provide specific documentation with respect to Worker’s Compensation and Disability Insurance pursuant to Article XIV of the enclosed Purchasing General Conditions. Requirements are detailed in the enclosed “Workers’ Compensation and Disability Benefits Requirements” document.
  
- Prevailing Wage Schedule** – NYS Labor Law requires all wages paid by contractors and subcontractors on public work projects be paid at the prevailing wage rates. Enclosed is the current rate schedule for the appropriate county. Contractors and Subcontractors are responsible for obtaining current rates throughout the course of the project. The NYS Department of Labor (NYS DOL) updates these rates on July 1st of each year. Current rates can be obtained on the NYS DOL website ([www.labor.state.ny.us](http://www.labor.state.ny.us)) or by fax at (518) 485-1870. Note that an executed Contractor and Subcontractor Certification and certified payrolls, which include the hours and days worked by each workman, laborer or mechanic, the occupation at which he worked, the hourly wage rate paid and the supplements paid or provided, must be submitted with each and every payment requisition. **DASNY will not process an invoice without this information.** Forms are available on the DASNY website:  
<http://www.dasny.org/construc/forms2/vendors.php>
  
- Labor and Material Payment Bond** – The successful bidder must be prepared to provide surety bonds prior to award in accordance with Article XIV of the DASNY Purchasing General Conditions. The costs of these bonds are to be separately stated in the total bid price as indicated on the Bid Breakdown and Schedule.
  
- Performance Bond** – The Successful bidder must be prepared to provide surety bonds prior to award in accordance with Article XIV of DASNY Purchasing General Conditions. The costs of these bonds are to be separately stated in the total bid price as indicated on the Bid Breakdown and Schedule.
  
- Standard Vendor Responsibility Questionnaire (SVRQ)** – The successful proposer, in accordance with Article XXII of DASNY Purchasing General Conditions, will be required to complete the enclosed SVRQ. The award of a contract will be subject to a review of the information contained in these forms.



**SUPPLEMENTAL SPECIFICATIONS CONTINUED**

- NYS Uniform Contracting Questionnaire (UCQ)** – The successful proposer will be required to complete the enclosed UCQ. The award of a contract will be subject to a review of the information contained in these forms.
  
- DASNY Contractor and Consultant Questionnaire (CCQ)** – The successful proposer will be required to complete the enclosed CCQ. The award of a contract will be subject to a review of the information contained in these



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## **Supplemental Information and General Requirements**



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## Supplemental Information and General Requirements

**Project Overview:** The Dormitory Authority of the State of New York is procuring dormitory mattresses for various SUNY Campuses throughout the State of New York.

**TERM:** It is the intent of DASNY to issue Purchase orders per this procurement for a two-year period commencing upon notification of award. DASNY will have the option to extend the term up to a year. Bidder must honor pricing for the term of the procurement.

### GENERAL REQUIREMENTS:

- A. **Product Data:** Manufacturer's detailed descriptive specifications and descriptive literature must be submitted for each type of product with bid submittal.
- B. **Samples:** Low Bidder will be required to provide samples to DASNY Interior Design as part of the bid review process. DASNY Purchasing will make this request and coordinate the delivery of the samples with the bidder". "Low bidder shall also be responsible for submitting laboratory testing results".  
Prepare Samples from the same material to be used for the work with bid submittal.
  - 1. FR (fire retardant) 100% polyester or cotton/polyester blend woven twill Ticking Fabric: 12-inch-square section of fabric to be used for the Work, with specified treatments applied. Mark face of fabric.
  - 2. Reinforced FR Vinyl Ticking Fabric: 12-inch- square section of fabric to be used for the work, with specified treatments applied. Mark face of fabric.
  - 3. 210 Denier Nylon with Polyurethane Coating Ticking Fabric: 12-inch- square section of fabric to be used for the work, with specified treatments applied. Mark face of fabric.
  - 4. Reinforced Polyester/Cotton Insulator Pad: 12" Square
  - 5. Pad comprised of 20% cotton and 80% synthetic fibers: 12-inch Square.
  - 6. Polyester pad composed of 25% low melt, 75% 15dpf polyester:12-inch Square.
  - 7. Polyurethane foam (Topper) 2" – 1.8lb – 45 ILD Zoned Polyurethane Foam: 12- inch Square.
  - 8. Polyurethane foam (Topper) 2" – 1.8lb – 35ILD Zoned Polyurethane Foam: 12 - inch Square
  - 9. Polyurethane Foam Encasement (Side Support) 1.8lb 60ILD Polyurethane Foam Encasement
  - 10. Pre-Built Border: Not less than 12-inch-long section showing seam and edge treatments.
  - 11. Fire Barrier: 20% low melt, 65% 4.5dpf FR rayon and 15% 4dpf polyester 12-inch Square
- C. **Mock-Up Samples:** Low Bidder will be required to provide samples to DASNY Interior Design as part of the bid review process. DASNY Purchasing will make this request and coordinate the delivery of the

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samples with the low bidder. Low bidder shall also be responsible for submitting laboratory testing results as follows:

Provide mock-up of composite mattress to verify selections made under Sample Submittals and to demonstrate the qualities of materials and execution within ten (10) days of a written request by DASNY.

- D. The successful bidder shall provide the Dormitory Authority within thirty (30) days additional copies of manufacturer' descriptive literature for Dormitory Authority distribution.

**QUALITY ASSURANCE:**

- A. Acceptable Manufacturers:
  - 1. Manufacturers of products offered must have been in the business of assembling and/or manufacturing the products as specified for a minimum of five (5) consecutive years, in projects of similar size and scope.
  - 2. The contractor shall be responsible for the integrity and load-bearing qualities of the individual sections and of the unit as a whole.

**PROJECT LOGISTICS:**

See attached SUNY map for location of all campuses.

**REQUESTS FOR INFORMATION:**

All questions pertaining to Bid No. 681 – Furnish and Deliver Mattresses are due no later than 4:00 p.m. on August 24, 2020 to [scraft@dasny.org](mailto:scraft@dasny.org). RFI Responses will be posted via Addenda to DASNY's Website in the Attachments Section of the Bid Opportunity Page for Bid No. 681.



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## **Scope of Work**



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## **SCOPE OF WORK**

### **SCOPE:**

Furnish and deliver various quantities of the following mattress types to various SUNY Campuses throughout the term of this procurement.

1. Extra Comfort Dormitory Innerspring Mattress with Woven Fire-Resistant Polyester or Fire-Resistant Polyester/Cotton Blend Cover with 3.5" radii corners.
2. Extra Comfort Dormitory Innerspring Mattress with 210 Denier Polyurethane Coated Nylon Cover with 3.5" radii corners per with 3.5" radii corners.
3. Extra Comfort Dormitory Innerspring Mattress with Reinforced Fire-Resistant Vinyl Cover with 3.5" radii corners.
4. Extra Plush Dormitory Innerspring Mattress with 210 Denier Polyurethane Coated Nylon Cover with 3.5" radii corners.
5. Extra Comfort Firm/Soft Dormitory Innerspring Mattress with 210 Denier Polyurethane Coated Nylon Cover with 3.5" radii corners.
6. Extra Plush Firm/Soft Dormitory Innerspring Mattress with 210 Denier Polyurethane Coated Nylon Cover with 3.5" radii corners.

### **ADDITIONAL OPTIONS:**

All Bidders are requested to provide pricing for the following delivery types:

1. Price Addition per unit for dock delivery:  
Western Region, Central Region, Hudson Valley/Adirondack Region, NYS/Long Island Region
2. Price Addition per unit for Delivery to Specified Location, includes unloading from truck:  
Western Region, Central Region, Hudson Valley/Adirondack Region, NYS/Long Island Region
3. Price Addition per unit for Inside Delivery, Set-In-Place Delivery. All items shall be delivered and placed, made ready for use, with the removal of all debris from premises:  
Western Region, Central Region, Hudson Valley/Adirondack Region, NYS/Long Island Region
4. Price Removal and Recycling of old mattresses:  
Western Region, Central Region, Hudson Valley/Adirondack Region, NYS/Long Island Region
5. Hourly Charge for Deliveries that exceed Two Hour Unloading Time (cost per hour).

### **DELIVERY, STORAGE & HANDLING:**

1. All goods must be delivered in first-class condition at the point of delivery and in accordance with good commercial practice. Damaged or imperfect items will be rejected and shall be replaced by the contractor. Delivery will be specified as either dock delivery, delivery to a specified location or inside delivery.
2. Deliveries shall be made on the date specified on each purchase order received from the Dormitory Authority, during normal receiving hours.
3. Contractor must contact the University Office indicated on each purchase order no less than forty-eight (48) hours in advance to schedule a delivery.
4. Refer to each mattress type for shipping requirements.







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## **Detailed Specifications**



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### **DASNY FLAMABILITY REQUIREMENTS**

The mattresses must meet the flammability standards set forth by the US Government for flammability of mattresses FF-4-72 (pursuant to 16 CFR parts 1632 and 1633 and shall meet or exceed the flammability standard set forth in California TB-129 and Boston Fire BFD IX-11. All bidders must supply a manufacturer's statement on company letterhead that the mattresses shall meet the requirements set forth by the US Government for flammability of mattresses FF-4-72 and shall meet or exceed the flammability standard set forth in California TB-129 and Boston Fire IX-11.

#### Summary:

1. The following standards issued in effect on the date of the invitation for bids form a part of this specification:
  - a. Federal Flammability Standard Consumer Product Safety Commission Title 16 CFR parts 1632 and 1633
  - b. Boston Fire Code BFD IX-11
  - c. California Technical Bulletin #129 Flammability Test Procedure for Mattress for use in Public Buildings
2. Construction of all mattress types shall meet the flammability standards set forth by the U.S. Government for flammability of mattresses FF-4-72 (pursuant to 16 CFR parts 1632 and 1633) and shall meet or exceed the flammability standard set forth in California TB-129, and Boston Fire BFD IX-11.
3. All bidders must supply a manufacturer's statement on company letterhead that the mattresses shall meet the requirements set forth by the US Government for flammability of mattresses FF-4-72 and shall meet or exceed the flammability standard set forth in California TB-129 and Boston Fire IX-11.
4. The "Low Bidder" must produce an independent laboratory certification verifying such within thirty (30) days of the date that the information is requested by DASNY. All costs associated with the testing and certification of any product shall be borne by the bidder. All bids failing to comply with these requirements may be considered incomplete and non-responsive."

### **DETAILED PRODUCT SPECIFICATION**

#### **1.0 Extra Comfort Dormitory Innerspring Mattress with Woven Fire-Resistant Polyester or Fire-Resistant Polyester/Cotton Blend Cover**

##### **1.1 Size: Shall be constructed to the final finished dimensions:**

- a) 33.5"W x 80"L x 9"H with 3.5" radii corners
- b) 33.5"W x 84"L x 9"H with 3.5" radii corners
- c) 36"W x 76"L x 9"H with 3.5" radii corners
- d) 36"W x 80"L x 9"H with 3.5" radii corners
- e) 36"W x 84"L x 9"H with 3.5" radii corners
- f) 38"W x 76"L x 9"H with 3.5" radii corners
- g) 38"W x 80"L x 9"H with 3.5" radii corners
- h) 39"W x 76"L x 9"H with 3.5" radii corners
- i) 39"W x 80"L x 9"H with 3.5" radii corners
- j) 54"W x 75"L x 9"H with 3.5" radii corners
- k) 54"W x 80"L x 9"H with 3.5" radii corners
- l) 60"W x 80"L x 9"H with 3.5" radii corners

##### **1.2 Comfort: Extra Comfort, cushion resiliency**

##### **1.3 Component Materials**

- a) Cover: The cover ticking shall be FR (fire retardant) 100% polyester or cotton/polyester blend woven twill, six ounces per square yard, or approved equal. Color shall be gray and white pinstripe. Each top and bottom shall be one piece (no seams) with the pinstripe running lengthwise.



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- b) Insulators – Primary and Secondary: A half perimeter size insulator pad shall be attached to the center third of the innerspring, reducing the open coil diameter. Then the entire area of the top and bottom surfaces of the innerspring unit shall be covered with reinforced polyester/cotton insulator pad. Nominal weight shall be 1.75 ounces per square foot with a nominal thickness of .250 inches. The pad shall be latex/resin treated, totally impregnated pad of shredded fibers, with needle punched interior. The insulator pad shall be wrapped around and attached securely to each border wire.
- c) Upholstery Layers: The top and bottom surfaces shall have multiple layers of upholstery and be assembled as follows:
  - i. A thick pad composed of approximately 20% cotton and 80% synthetic fibers which have been bonded under heat with a thermoplastic resin, and formed into a pad with polyester scrim netting bonded to the bottom shall be added to the top and bottom surfaces of the innerspring on top of the primary and secondary insulator pad. The material shall weigh not less than 4.45 ounces per square foot with a minimum 7/8 inch thickness. The layer shall be wrapped around and attached securely to each border wire.
  - ii. Next, the top and bottom surfaces shall be covered with a thick polyester pad composed of 25% low melt, 75% 15dpf polyester, carded and cross lapped, thermally bonded using bi-component polyester fiber. The material shall weigh 1.8 ounces per square foot with a minimum 7/8 inch thickness.
  - iii. Then, one half pound corner pads shall be securely placed in each corner of the innerspring.
  - iv. The last internal layer prior to the ticking covering the top and bottom shall be the fire barrier. Composed of 20% low melt, 65% 4.5 dpf FR rayon and 15% 4 dpf polyester. Carded and cross lapped thermally bonded using Bi-component polyester fiber. Weight is .8 ounce per square foot with a thickness of .5".
- d) Flange: The flange shall be of a minimum 5" wide strip of spun bonded polypropylene machine sewn 3/4" inside the outer hem of the top and bottom ticking panels. The entire insulation and upholstery layers are securely anchored to the edge of the spring unit by fastening the flanging material to every other perimeter coil with metal rings. The flanging process shall reinforce and anchor the edges of the mattress.
- e) Pre-Built Border: The pre-built one-piece border shall be constructed using the same mattress cover ticking used for the top and bottom panels.
- f) Thread and Stitching: The thread used for ALL stitching shall be flame retardant synthetic fiber that does not impair the flammability characteristics of the mattress. All machine stitching shall be a minimum of 8 stitches to the inch.
- g) Innerspring Unit: The basis for this specification is the type 312 Bonnell Spring Unit or approved equal.
  - i. The 36" x 80" innerspring unit shall consist of not less than 208 coils (8x26) knotted construction. The 33.5" x 80" innerspring unit shall consist of not less than 183 coils (7x26) knotted construction. Additional sizes may be modified proportionately.
  - ii. Coils shall be hourglass shaped, not less than 13-gauge double tempered high carbon steel wire with a minimum height of 5" +/- 1/4", a minimum of 5 convolutions and ends shall be securely knotted.
  - iii. Coils shall have top and bottom convolutions overlapping adjacent coils top and bottom convolutions and secured with helical.
  - iv. Transverse row of Bonnell coils shall be anchored with 17.5 gauge cross helical and all ends shall be securely clinched or clamped.
  - v. There shall be border wire of not less than 6-gauge high carbon steel around the entire perimeter of the top and bottom surfaces of the spring unit. Ends of the border wire are to be twisted ferruled or butt-welded. The border wire shall be attached to each outside coil using metal clips (two metal clips on all four corner coils). Clips shall be made from cold-rolled mild steel not less than 0.030 inches in thickness and not less than 7/16" wide.



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- 1.4 Closing Edges shall be taped using a minimum of 5/8" tight woven polyester tape sewn to securely bind the top and bottom to the side border.
- 1.5 Workmanship: Quality work shall be commensurate with standards of high quality in component processing and manufacturing; as well as assembly of components and tailoring. All materials, threads and stitches shall conform to the U.S. Standards of Workmanship.
- 1.6 Handles: None
- 1.7 Ventilators: None
- 1.8 Label: The finished composite mattress shall have 2 new labels securely affixed. The first shall be a law tag as required by New York State certifying that all materials are new and unused. The second label shall be a law tag as required by the Federal Government. This label states the manufacturer and manufacturer's address, date of production and appropriate Federal Government flammability requirements.
- 1.9 Packaging: Mattresses shall be individually packed and sealed in a sanitary container standard to the industry with contents clearly marked on outside.

2.0 **Extra Comfort Dormitory Innerspring Mattress with 210 Denier Polyurethane Coated Nylon Cover**

2.1 Size: Shall be constructed to the final finished dimensions:

- a) 33.5"W x 80"L x 9"H with 3.5" radii corners
- b) 33.5"W x 84"L x 9"H with 3.5" radii corners
- c) 36"W x 76"L x 9"H with 3.5" radii corners
- d) 36"W x 80"L x 9"H with 3.5" radii corners
- e) 36"W x 84"L x 9"H with 3.5" radii corners
- f) 38"W x 76"L x 9"H with 3.5" radii corners
- g) 38"W x 80"L x 9"H with 3.5" radii corners
- h) 39"W x 76"L x 9"H with 3.5" radii corners
- i) 39"W x 80"L x 9"H with 3.5" radii corners
- j) 54"W x 75"L x 9"H with 3.5" radii corners
- k) 54"W x 80"L x 9"H with 3.5" radii corners
- l) 60"W x 80"L x 9"H with 3.5" radii corners

2.2 Comfort: Extra Comfort, cushion resiliency

2.3 Component Materials:

- a) The cover ticking shall be a 210 denier nylon with a polyurethane coating on the back (or equal), shall weigh a minimum of 4.6 ounces per square yard, and shall be fire retardant. Color shall be navy blue.

i. Cover ticking shall have the following specifications:

Antibacterial	AATCC Method 147-1988 Staphylococcus Aureus	Contact Inhibition 99%+
Antifungal	AATCC Method 30-1988 Aspergillums Niger	Contact Inhibition 99%+
Primary Skin Irritation	Draize Dermal Toxicity	Non-Allergenic
Flame Resistance	NFPA 701 (small scale) CAL TB117	PASS



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Moisture Vapor Transmission	ASTM E96/BW	100 g/m <sup>2</sup> /24hrs
Hydrostatic Burst (PSI)	Federal Standard 191-5512	200 lbs.
Tear Strength	Federal Standard 191-5134	Warp 4.0 lbs.; Fill 4.0 lbs.

- ii. Each top and bottom panel shall be one piece (no seams) and shall be double stitched to the pre-built border with not less than 5/8" wide mattress binding tape.
- b) Insulators – Primary and Secondary: A half perimeter size insulator pad shall be attached to the center third of the innerspring, reducing the open coil diameter. Then the entire area of the top and bottom surfaces of the innerspring unit shall be covered with reinforced polyester/cotton insulator pad. Nominal weight shall be 1.75 ounces per square foot with a nominal thickness of .250 inches. The pad shall be latex/resin treated, totally impregnated pad of shredded fibers, with needle punched interior. The insulator pad shall be wrapped around and attached securely to each border wire.
- c) Upholstery Layers: The top and bottom surfaces shall have multiple layers of upholstery and be assembled as follows:
  - i. A thick pad composed of approximately 20% cotton and 80% synthetic fibers which have been bonded under heat with a thermoplastic resin, and formed into a pad with polyester scrim netting bonded to the bottom shall be added to the top and bottom surfaces of the innerspring on top of the primary and secondary insulator pad. The material shall weigh not less than 4.45 ounces per square foot with a minimum 7/8 inch thickness. The layer shall be wrapped around and attached securely to each border wire.
  - ii. Next, the top and bottom surfaces shall be covered with a thick polyester pad composed of 25% low melt, 75% 15dpf polyester, carded and cross lapped, thermally bonded using bi-component polyester fiber. The material shall weigh 1.8 ounces per square foot with a minimum 7/8 inch thickness.
  - iii. Then, one half pound corner pads shall be securely placed in each corner of the innerspring.
  - iv. The last internal layer prior to the ticking covering the top and bottom shall be the fire barrier. Composed of 20% low melt, 65% 4.5 dpf FR rayon and 15% 4 dpf polyester. Carded and cross lapped thermally bonded using Bi-component polyester fiber. Weight is .8 ounce per square foot with a thickness of .5".
- d) Flange: The flange shall of a minimum 5" wide strip of spun bonded polypropylene machine sewn ¼" inside the outer hem of the top and bottom ticking panels. The entire insulation and upholstery layers are securely anchored to the edge of the spring unit by fastening the flanging material to every other perimeter coil with metal rings. The flanging process shall reinforce and anchor the edges of the mattress.
- e) Pre-Built Border: The pre-built one piece border shall be constructed using the same mattress cover ticking used for the top and bottom panels.
- f) Thread and Stitching: The thread used for ALL stitching shall be flame retardant synthetic fiber that does not impair the flammability characteristics of the mattress. All machine stitching shall be a minimum of 8 stitches to the inch.
- g) Innerspring Unit: The basis for this specification is the type 312 Bonnell Spring Unit or approved equal.



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- i. The 36" x 80" innerspring unit shall consist of not less than 208 coils (8x26) knotted construction. The 33.5" x 80" innerspring unit shall consist of not less than 183 coils (7x26) knotted construction. Additional sizes may be modified proportionately.
  - ii. Coils shall be hourglass shaped, not less than 13 gauge double tempered high carbon steel wire with a minimum height of 5" +/- 1/4", a minimum of 5 convolutions and ends shall be securely knotted.
  - iii. Coils shall have top and bottom convolutions overlapping adjacent coils top and bottom convolutions and secured with helical.
  - iv. Transverse row of Bonnell coils shall be anchored with 17.5 gauge cross helical and all ends shall be securely clinched or clamped.
  - v. There shall be border wire of not less than 6 gauge high carbon steel around the entire perimeter of the top and bottom surfaces of the spring unit. Ends of the border wire are to be twisted ferruled or butt-welded. The border wire shall be attached to each outside coil using metal clips (two metal clips on all four corner coils). Clips shall be made from cold-rolled mild steel not less than 0.030 inches in thickness and not less than 7/16" wide.
- 2.4 Closing: Edges shall be taped using a minimum of 5/8" tight woven polyester tape sewn to securely bind the top and bottom to the side border OR edges shall be sewn securely using inverted seam technology.
- 2.5 Workmanship: Quality of work shall be commensurate with standards of high quality in component processing and manufacturing; as well as assembly of components and tailoring. All materials, threads and stitches shall conform to the U.S. Standards of Workmanship.
- 2.6 Handles: None
- 2.7 Ventilators: None
- 2.8 Label: The finished composite mattress shall have 2 new labels securely affixed. The first shall be a law tag as required by New York State certifying that all materials are new and unused. The second label shall be a law tag as required by the Federal Government. This label states the manufacturer and manufacturer's address, date of production and appropriate Federal Government flammability requirements.
- 2.9 Packaging: Mattresses shall be individually packed and sealed in a sanitary container standard to the industry with contents clearly marked on outside.
- 3.0 **Extra Comfort Dormitory Innerspring Mattress with Reinforced Fire-Resistant Vinyl Cover**
- 3.1 Size: Shall be constructed to the final finished dimensions:
- a) 33.5"W x 80"L x 9"H with 3.5" radii corners
  - b) 33.5"W x 84"L x 9"H with 3.5" radii corners
  - c) 36"W x 76"L x 9"H with 3.5" radii corners
  - d) 36"W x 80"L x 9"H with 3.5" radii corners
  - e) 36"W x 84"L x 9"H with 3.5" radii corners
  - f) 38"W x 76"L x 9"H with 3.5" radii corners
  - g) 38"W x 80"L x 9"H with 3.5" radii corners
  - h) 39"W x 76"L x 9"H with 3.5" radii corners
  - i) 39"W x 80"L x 9"H with 3.5" radii corners
  - j) 54"W x 75"L x 9"H with 3.5" radii corners
  - k) 54"W x 80"L x 9"H with 3.5" radii corners
  - l) 60"W x 80"L x 9"H with 3.5" radii corners
- 3.2 Comfort: Extra Comfort, cushion resiliency
- 3.3 Component Materials :
- a) Cover: The cover ticking shall be Bio-Pruf™ antimicrobial treated reinforced nylon laminate institutional ticking, not less than 10.5 ounces per square yard, and shall be flame retardant,



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antibacterial, antistatic, stain resistant and waterproof. Color shall be A.C.A. blue and white stripe. Each top and bottom panel shall be one piece (no seams) with stripe running lengthwise.

- b) Insulators - Primary and Secondary: A half perimeter size insulator pad shall be attached to the center third of the innerspring, reducing the open coil diameter. Then the entire area of the top and bottom surfaces of the innerspring unit shall be covered with reinforced polyester/cotton insulator pad. Nominal weight shall be 1.75 ounces per square foot with a nominal thickness of .250 inches. The pad shall be latex/resin treated, totally impregnated pad of shredded fibers, with needle punched interior. The insulator pad shall be wrapped around and attached securely to each border wire.
- c) Upholstery Layers: The top and bottom surfaces shall have multiple layers of upholstery and be assembled as follows:
  - i. A thick pad composed of approximately 20% cotton and 80% synthetic fibers which have been bonded under heat with a thermoplastic resin, and formed into a pad with polyester scrim netting bonded to the bottom shall be added to the top and bottom surfaces of the innerspring on top of the primary and secondary insulator pad. The material shall weigh not less than 4.45 ounces per square foot with a minimum 7/8 inch thickness. The layer shall be wrapped around and attached securely to each border wire.
  - ii. Next, the top and bottom surfaces shall be covered with a thick polyester pad composed of 25% low melt, 75% 15dpf polyester, carded and cross lapped, thermally bonded using bi-component polyester fiber. The material shall weigh 1.8 ounces per square foot with a minimum 7/8 inch thickness.
  - iii. Then, one half pound corner pads shall be securely placed in each corner of the innerspring.
  - iv. The last internal layer prior to the ticking covering the top and bottom shall be the fire barrier. Composed of 20% low melt, 65% 4.5 dpf FR rayon and 15% 4 dpf polyester. Carded and cross lapped thermally bonded using Bi-component polyester fiber. Weight is .8 ounce per square foot with a thickness of .5".
- d) Flange: The flange shall of a minimum 5" wide strip of spun bonded polypropylene machine sewn 3/4" inside the outer hem of the top and bottom ticking panels. The entire insulation and upholstery layers are securely anchored to the edge of the spring unit by fastening the flanging material to every other perimeter coil with metal rings. The flanging process shall reinforce and anchor the edges of the mattress.
- e) Pre-Built Border: The pre-built one piece border shall be constructed using the same mattress cover ticking used for the top and bottom panels.
- f) Thread and Stitching: The thread used for ALL stitching shall be flame retardant synthetic fiber that does not impair the flammability characteristics of the mattress. All machine stitching shall be a minimum of 8 stitches to the inch.
- g) Innerspring Unit: The basis for this specification is the type 312 Bonnell Spring Unit or approved equal.
  - i. The 36" x 80" innerspring unit shall consist of not less than 208 coils (8x26) knotted construction. The 33.5" x 80" innerspring unit shall consist of not less than 183 coils (7x26) knotted construction. Additional sizes may be modified proportionately.
  - ii. Coils shall be hourglass shaped, not less than 13 gauge double tempered high carbons steel wire with a minimum height of 5" +/- 1/4", a minimum of 5 convolutions and ends shall be securely knotted.
  - iii. Coils shall have top and bottom convolutions overlapping adjacent coils top and bottom convolutions and secured with helical.
  - iv. Transverse row of Bonnell coils shall be anchored with 17.5 gauge cross helical and all ends shall be securely clinched or clamped.
  - v. There shall be border wire of not less than 6 gauge high carbon steel around the entire perimeter of the top and bottom surfaces of the spring unit. Ends of the border wire are to be twisted ferruled or





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butt-welded. The border wire shall be attached to each outside coil using metal clips (two metal clips on all four corner coils). Clips shall be made from cold-rolled mild steel not less than 0.030 inches in thickness and not less than 7/16" wide.

- 3.4 Closing: Edges shall be taped using a minimum of 5/8" tight woven polyester tape sewn to securely bind the top and bottom to side border.
- 3.5 Workmanship: Quality of work shall be commensurate with standards of high quality in component processing and manufacturing as well as assembly of components and tailoring. All materials, threads, and stitches shall conform to the U.S. Standards of Workmanship.
- 3.6 Handles: None
- 3.7 Ventilators: None
- 3.8 Label: The finished finished composite mattress shall have 2 new labels securely affixed. The first shall be a law tag as required by New York State certifying that all materials are new and unused. The second label shall be a tag as required by the Federal Government. This label states the manufacturer and manufacturer's address, date of production and appropriate Federal Government flammability requirements.
- 3.9 Packaging: Mattresses shall be individually packed and sealed in a sanitary container standard to the industry with contents clearly marked on outside.

4.0 **Extra Plush Dormitory Innerspring Mattress with 210 Denier Polyurethane Coated Nylon Cover**

4.1 Size: Shall be constructed to the final finished dimensions:

- a) 33.5"W x 80"L x 9"H with 3.5" radii corners
- b) 33.5"W x 84"L x 9"H with 3.5" radii corners
- c) 36"W x 76"L x 9"H with 3.5" radii corners
- d) 36"W x 80"L x 9"H with 3.5" radii corners
- e) 36"W x 84"L x 9"H with 3.5" radii corners
- f) 38"W x 76"L x 9"H with 3.5" radii corners
- g) 38"W x 80"L x 9"H with 3.5" radii corners
- h) 39"W x 76"L x 9"H with 3.5" radii corners
- i) 39"W x 80"L x 9"H with 3.5" radii corners
- j) 54"W x 75"L x 9"H with 3.5" radii corners
- k) 54"W x 80"L x 9"H with 3.5" radii corners
- l) 60"W x 80"L x 9"H with 3.5" radii corners

4.2 Comfort: Extra Plush, cushion resiliency

4.3 Component Materials:

- a) Cover: The cover ticking shall be 210 denier nylon with a polyurethane coating on the back (or equal), shall weigh a minimum of 4.6 ounces per square yard, and shall be fire retardant. Color shall be navy blue.

i. Cover ticking shall have the following specifications:

Antibacterial	AATCC Method 147-1988 Staphylococcus Aureus	Contact Inhibition 99%+
Antifungal	AATCC Method 30-1988 Aspergillums Niger	Contact Inhibition 99%+
Primary Skin Irritation	Draize Dermal Toxicity	Non-Allergenic



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Flame Resistance	NFPA 701 (small scale) CAL TB117	PASS
Moisture Vapor Transmission	ASTM E96/BW	100 g/m2/24hrs
Hydrostatic Burst (PSI)	Federal Standard 191-5512	200 lbs.
Tear Strength	Federal Standard 191-5134	Warp 4.0 lbs.; Fill 4.0 lbs.

- b) Each top and bottom panel shall be one piece (no seams) and shall be double stitched to the pre-built border with not less than 5/8" wide mattress binding tape.
- c) Insulators - Primary and Secondary: The entire area of the top and bottom surfaces of the innerspring unit shall be covered with reinforced polyester/cotton insulator pad. Nominal weight shall be 2.0 ounces per square foot with a nominal thickness of .250 inches. The pad shall be latex/resin treated, totally impregnated pad of shredded fibers, with needle punched interior. The insulator pad shall be wrapped around and attached securely to each border wire.
- d) Additional Mattress Side Support: Each side of the mattress shall have 4 – 11 gauge metal edge supports securely clipped to the border wire. Eight metal edge guards are to be used on each mattress.
- e) Upholstery Layers: The top and bottom surfaces shall have multiple layers of upholstery and be assembled as follows:
  - i. Next, the top and bottom surfaces shall be covered with a thick polyester pad composed of 25% low melt, 75% 15dpf polyester, carded and cross lapped, thermally bonded using bi-component polyester fiber. The material shall weigh 1.8 ounces per square foot with a minimum 7/8 inch thickness.
  - ii. Next, the top and bottom surfaces shall be covered with a 1" - 1.5 lb. density polyurethane foam with an ILD of 15. The polyurethane foam shall be wrapped around and attached securely to the spring unit.
  - iii. Then, one half pound corner pads shall be securely placed in each corner of the innerspring.
  - iv. The last internal layer prior to the ticking covering the top and bottom shall be the fire barrier. Composed of 20% low melt, 65% 4.5 dpf FR rayon and 15% 4 dpf polyester. Carded and cross lapped thermally bonded using Bi-component polyester fiber. Weight is .8 ounce per square foot with a thickness of .5".
- f) Flange: The flange shall of a minimum 5" wide strip of spun bonded polypropylene machine sewn 3/4" inside the outer hem of the top and bottom ticking panels. The entire insulation and upholstery layers are securely anchored to the edge of the spring unit by fastening the flanging material to every other perimeter coil with metal rings. The flanging process shall reinforce and anchor the edges of the mattress.
- g) Pre-Built Border: The pre-built one piece border shall be constructed using the same mattress cover ticking used for the top and bottom panels.
- h) Thread and Stitching: The thread used for ALL stitching shall be flame retardant synthetic fiber that does not impair the flammability characteristics of the mattress. All machine stitching shall be a minimum of 8 stitches to the inch.
- i) Innerspring Unit: The basis for this specification is the type 312 Bonnell Spring Unit or approved equal.



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- i. The 36" x 80" innerspring unit shall consist of not less than 208 coils (8x26) knotted construction. The 33.5" x 80" innerspring unit shall consist of not less than 183 coils (7x26) knotted construction. Additional sizes may be modified proportionately.
- ii. Coils shall be hourglass shaped, not less than 13 gauge double tempered high carbon steel wire with a minimum height of 5" +/- 1/4", a minimum of 5 convolutions and ends shall be securely knotted.
- iii. Coils shall have top and bottom convolutions overlapping adjacent coils top and bottom convolutions and secured with helical.
- iv. Transverse row of Bonnell coils shall be anchored with 17.5 gauge cross helical and all ends shall be securely clinched or clamped.
- v. There shall be border wire of not less than 6 gauge high carbon steel around the entire perimeter of the top and bottom surfaces of the spring unit. Ends of the border wire are to be twisted ferruled or butt-welded. The border wire shall be attached to each outside coil using metal clips (two metal clips on all four corner coils). Clips shall be made from cold-rolled mild steel not less than 0.030 inches in thickness and not less than 7/16" wide.

4.4 Closing: Edges shall be sewn using inverted seam technology.

4.5 Workmanship: Quality of work shall be commensurate with standards of high quality in component processing And manufacturing as well as assembly of components and tailoring. All materials, threads and stitches shall Conform to the U.S. Standards of Workmanship.

4.6 Handles: None

4.7 Ventilators: None

4.8 Label: The finished composite mattress shall have 2 new labels securely affixed. The first shall be a law tag as Required by New York State certifying that all materials are new and unused. The second label shall be a law tag as required by the Federal Government. This label states the manufacturer and manufacturer's address, date of production and appropriate Federal Government flammability requirements.

4.9 Packaging: Mattresses shall be individually packed and sealed in a sanitary container standard to the industry.

**5.0 Extra Comfort Firm/Soft Dormitory Innerspring Mattress with 210 Denier Polyurethane Coated Nylon Cover**

5.1 Size: Shall be constructed to the final finished dimensions:

- a) 33.5"W x 80"L x 8"H with 3.5" radii corners
- b) 33.5"W x 84"L x 8"H with 3.5" radii corners
- c) 36"W x 76"L x 8"H with 3.5" radii corners
- d) 36"W x 80"L x 8"H with 3.5" radii corners
- e) 36"W x 84"L x 8"H with 3.5" radii corners
- f) 38"W x 76"L x 8"H with 3.5" radii corners
- g) 38"W x 80"L x 8"H with 3.5" radii corners
- h) 39"W x 76"L x 8"H with 3.5" radii corners
- i) 39"W x 80"L x 8"H with 3.5" radii corners
- j) 54"W x 75"L x 8"H with 3.5" radii corners
- k) 54"W x 80"L x 8"H with 3.5" radii corners
- l) 60"W x 80"L x 8"H with 3.5" radii corners

5.2 Comfort: Extra Comfort Firm/Soft, cushion resiliency

5.3 Component Materials:

- a) Cover: The cover ticking shall be 210 denier nylon with a polyurethane coating on the back (or equal), shall weigh a minimum of 4.6 ounces per square yard, and shall be fire retardant. Color shall be navy blue.



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i. Cover ticking shall have the following specifications:

Antibacterial	AATCC Method 147-1988 Staphylococcus Aureus	Contact Inhibition 99%+
Antifungal	AATCC Method 30-1988 Aspergillums Niger	Contact Inhibition 99%+
Primary Skin Irritation	Draize Dermal Toxicity	Non-Allergenic
Flame Resistance	NFPA 701 (small scale) CAL TB117	PASS  PASS
Moisture Vapor Transmission	ASTM E96/BW	100 g/m2/24hrs
Hydrostatic Burst (PSI)	Federal Standard 191-5512	200 lbs.
Tear Strength	Federal Standard 191-5134	Warp 4.0 lbs.; Fill 4.0 lbs.

ii. Each top and bottom panel shall be one piece (no seams) and shall be closed using inverted seam technology.

- b) Insulators - Primary and Secondary: The entire area of the top and bottom surfaces of the innerspring unit shall be covered with reinforced polyester/cotton insulator pad. Nominal weight shall be 2.0 ounces per square foot with a nominal thickness of .250 inches. The pad shall be latex/resin treated, totally impregnated pad of shredded fibers, with needle punched interior. The insulator pad shall be wrapped around and attached securely to the innerspring.
- c) Additional Mattress Side Support: The perimeter of the innerspring is supported by a 1.8 lb. 60 ILD Polyurethane Foam Encasement.
- d) Upholstery Layers: The top and bottom surfaces shall be assembled as follows:
  - i. Firm side of the mattress should have laminated to the polyurethane foam encasement and insulator pad a 2" – 1.8 lb. – 45 ILD Zoned Polyurethane Foam Topper.
  - ii. Soft side of the mattress should have laminated to the polyurethane foam encasement and insulator pad a 2" – 1.8 lb. – 35 ILD Zoned Polyurethane Foam Topper.
  - iii. The last internal layer prior to the ticking covering the top and bottom shall be the fire barrier. Composed of 20% low melt, 65% 4.5 dpf FR rayon and 15% 4 dpf polyester. Carded and cross lapped thermally bonded using Bi-component polyester fiber. Weight is .8 ounce per square foot with a thickness of .5".
- e. Pre-Built Border: The pre-built one-piece border shall be constructed using the same mattress cover ticking used for the top and bottom panels.
- f. Thread and Stitching: The thread used for ALL stitching shall be flame retardant synthetic fiber that does not impair the flammability characteristics of the mattress. All machine stitching shall be a minimum of 8 stitches to the inch.
- g. Innerspring Unit: The basis for this specification is the type 312 Bonnell Spring Unit or approved equal.
  - i. The innerspring unit for 36" x 80" measures 31" x 74" knotted construction. Additional sizes may be modified proportionately.



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- ii. Coils shall be hourglass shaped, not less than 13 ½ gauge double tempered high carbons steel wire with a minimum height of 3 ¾" +/- ¼", a minimum of 5 convolutions and ends shall be securely knotted.
- iii. Coils shall have top and bottom convolutions overlapping adjacent coils top and bottom convolutions and secured with helical.
- iv. Transverse row of Bonnell coils shall be anchored with 17.5 gauge cross helical and all ends shall be securely clinched or clamped.

5.4 Closing: Edges shall be taped using a minimum of 5/8" tight woven polyester tape sewn to securely bind the top and bottom to the side border OR edges shall be sewn securely using inverted seam technology.

5.5 Workmanship: Quality of work shall be commensurate with standards of high quality in component processing and manufacturing; as well as assembly of components and tailoring. All materials, threads and stitches shall conform to the U.S. Standards of Workmanship.

5.6 Handles: None

5.7 Ventilators: None

5.8 Label: The finished composite mattress shall have 2 new labels securely affixed. The first shall be a law tag as required by New York State certifying that all materials are new and unused. The second label shall be a law tag as required by the Federal Government. This label states the manufacturer and manufacturer's address, date of production and appropriate Federal Government flammability requirements.

5.9 Packaging:

- a) Mattresses shall be individually packed and sealed in a sanitary container standard to the industry with contents clearly marked on outside.
- b) These mattresses have the capability of being compressed, rolled and wrapped in plastic film. When compressed and rolled the mattress dimension is 16" x 16" x 40". Making shipping very cost effective and placement/installation within the room very easy.

6.0 **Extra Plush Firm/Soft Dormitory Innerspring Mattress with 210 Denier Polyurethane Coated Nylon Cover**

6.1 Size: Shall be constructed to the final finished dimensions:

- a) 33.5"W x 80"L x 8"H with 3.5" radii corners
- b) 33.5"W x 84"L x 8"H with 3.5" radii corners
- c) 36"W x 76"L x 8"H with 3.5" radii corners
- d) 36"W x 80"L x 8"H with 3.5" radii corners
- e) 36"W x 84"L x 8"H with 3.5" radii corners
- f) 38"W x 76"L x 8"H with 3.5" radii corners
- g) 38"W x 80"L x 8"H with 3.5" radii corners
- h) 39"W x 76"L x 8"H with 3.5" radii corners
- i) 39"W x 80"L x 8"H with 3.5" radii corners
- j) 54"W x 75"L x 8"H with 3.5" radii corners
- k) 54"W x 80"L x 8"H with 3.5" radii corners
- l) 60"W x 80"L x 8"H with 3.5" radii corners

6.2 Comfort: Extra Plush/Firm/Soft, cushion resiliency

6.3 Component Materials:

- a) Cover: The cover ticking shall be 210 denier nylon with a polyurethane coating on the back (or equal), shall weigh a minimum of 4.6 ounces per square yard, and shall be fire retardant. Color shall be navy blue.
  - i. Cover ticking shall have the following specifications:



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Antibacterial	AATCC Method 147-1988 Staphylococcus Aureus	Contact Inhibition 99%+
Antifungal	AATCC Method 30-1988 Aspergillums Niger	Contact Inhibition 99%+
Primary Skin Irritation	Draize Dermal Toxicity	Non-Allergenic
Flame Resistance	NFPA 701 (small scale) CAL TB117	PASS  PASS
Moisture Vapor Transmission	ASTM E96/BW	100 g/m2/24hrs
Hydrostatic Burst (PSI)	Federal Standard 191-5512	200 lbs.
Tear Strength	Federal Standard 191-5134	Warp 4.0 lbs.; Fill 4.0 lbs.

- ii. Each top and bottom panel shall be one piece (no seams) and shall be closed using inverted seam technology.
- b) Insulators – Primary and Secondary: The entire area of the top and bottom surfaces of the innerspring unit shall be covered with reinforced polyester/cotton insulator pad. Nominal weight shall be 2.0 ounces per square foot with a nominal thickness of .250 inches. The pad shall be latex/resin treated, totally impregnated pad of shredded fibers, with needle punched interior. The insulator pad shall be wrapped around and attached securely to the innerspring.
- c) Additional Mattress Side Support: The perimeter of the innerspring is supported by a 1.8 lb. 60 ILD Polyurethane Foam Encasement.
- d) Upholstery Layers: The top and bottom surfaces shall be assembled as follows:
  - i. Firm side of the mattress should have laminated to the polyurethane foam encasement and insulator pad a 2” – 1.8 lb. – 35 ILD Zoned Polyurethane Foam Topper.
  - ii. Soft side of the mattress should have laminated to the polyurethane foam encasement and insulator pad a 2” – 1.5 lb. – 15 ILD Zoned Polyurethane Foam Topper.
  - iii. The last internal layer prior to the ticking covering the top and bottom shall be the fire barrier. Composed of 20% low melt, 65% 4.5 dpf FR rayon and 15% 4 dpf polyester. Carded and cross lapped thermally bonded using Bi-component polyester fiber. Weight is .8 ounce per square foot with a thickness of .5”.
- e) Pre-Built Border: The pre-built one-piece border shall be constructed using the same mattress cover ticking used for the top and bottom panels.
- f) Thread and Stitching: The thread used for ALL stitching shall be flame retardant synthetic fiber that does not impair the flammability characteristics of the mattress. All machine stitching shall be a minimum of 8 stitches to the inch.
- g) Innerspring Unit: The basis for this specification is the type 312 Bonnell Spring Unit or approved equal.
  - i. The innerspring unit for 36” x 80” measures 31” x 74” knotted construction. Additional sizes may be modified proportionately.
  - ii. Coils shall be hourglass shaped, not less than 13 ½ gauge double tempered high carbons steel wire with a minimum height of 3 ¾” +/- ¼”, a minimum of 5 convolutions and ends shall be securely knotted.



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- iii. Coils shall have top and bottom convolutions overlapping adjacent coils top and bottom convolutions and secured with helical.
  - iv. Transverse row of Bonnell coils shall be anchored with 17.5 gauge cross helical and all ends shall be
- 6.4 Closing: Edges shall be taped using a minimum of 5/8" tight woven polyester tape sewn to securely bind to the top and bottom to the side border OR edges shall be sewn securely using inverted seam technology.
- 6.5 Workmanship: Quality of work shall be commensurate with standards of high quality in component processing and manufacturing; as well as assembly of components and tailoring. All materials, threads and stitches shall conform to the U.S. Standards of Workmanship.
- 6.6 Handles: None
- 6.7 Ventilators: None
- 6.8 Labels: The finished composite mattress shall have 2 new labels securely affixed. The first shall be a law tag as required by New York State certifying that all materials are new and unused. The second label shall be a law tag as required by the Federal Government. This label states the manufacturer and manufacturer's address, date of production and appropriate Federal Government flammability requirements.
- 6.9 Packaging:
- a) Mattresses shall be individually packed and sealed in a sanitary container standard to the industry with contents clearly marked on outside.
  - b) These mattresses have the capability of being compressed, rolled and wrapped in plastic film. When compressed and rolled the mattress dimension is 16" x 16" x 40". Making shipping very cost effective and placement/installation within the room very easy.