



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Solicitation

NUMBER
BCF13128

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
ROBERTA WAGNER 304-558-0067

V
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R

*709040519 304-343-7551
 CAPITOL BUSINESS INTERIORS
 711 INDIANA AVE
 CHARLESTON WV 25302

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HEALTH AND HUMAN RESOURCES
 VARIOUS LOCATIONS
 AS INDICATED BELOW

DATE PRINTED
03/12/2013

BID OPENING DATE:

04/11/2013

BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		425-68		
ONE COMPLETE LOCKABLE, KARDEX KOMPACT OR EQUAL FILE REQUEST FOR QUOTATION TO PROVIDE ALL LABOR, MATERIALS, AND ANY INCIDENTALS FOR THE ACQUISITION AND INSTALLATION OF A FULLY COMPLETED LOCKABLE KARDEX KOMPACT OR EQUAL, MOBILE, LATERAL, HIGH DENSITY FILING SYSTEM PER THE ATTACHED DETAILED SPECIFICATIONS. THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATION IN ACCORDANCE WITH SECTION 148-1-4 (F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS.						
***** THIS IS THE END OF RFQ BCF13128 *****						TOTAL: <u>50,306.37</u>
04/11/13 01:24:31 PM West Virginia Purchasing Division						

SIGNATURE <i>Kelli D. Phay</i>	TELEPHONE 304.343.7551	DATE 4/11/13
TITLE <i>Sales Manager</i>	FEIN 55-0422766	ADDRESS CHANGES TO BE NOTED ABOVE

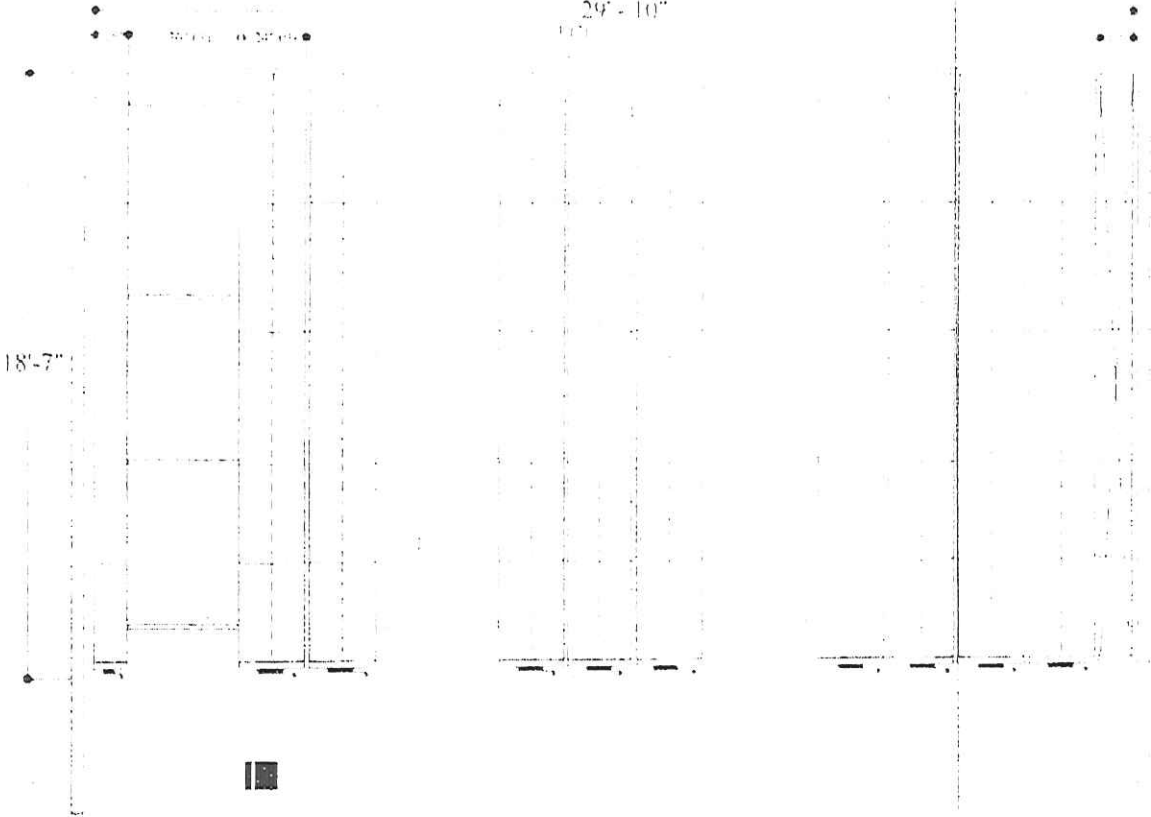
WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

Pricing Page Exhibit ABCF13128Ohio County File SystemVendor Bid (Grand Total) \$ 50,306.37

Award will be made to the vendor meeting specifications with the lowest grand total bid.

Vendor Name: Capitol Business InteriorsVendor Address: 711 Indiana Ave
Charleston, WVa. 25302Remit to Address: _____
SamePhone #: 304.343.7551Fax #: 304.346.3350E-mail: Kbragg@ntelos.netSignature: [Handwritten Signature]Date 4/11/13

BCF13128
WV DHHR BCF Filing System Ohio County WV



Gross LFI = 25,920 Net LFI = 24,720



CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

Capitol Business Interiors
(Company)

Kelli D. Bragg
(Authorized Signature)

Kelli Bragg, Sales Manager
(Representative Name, Title)

304.343.7551 304.346.3350
(Phone Number) (Fax Number)

4/11/13
(Date)



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 Department of Administration
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ROBERTA WAGNER 304-558-0067

VENDOR

*709040519 304-343-7551
 CAPITOL BUSINESS INTERIORS
 711 INDIANA AVE
 CHARLESTON WV 25302

SHIP TO

HEALTH AND HUMAN RESOURCES
 VARIOUS LOCATIONS
 AS INDICATED BELOW

DATE PRINTED
03/28/2013

BID OPENING DATE: 04/11/2013 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
1.				ADDENDUM ISSUED TO PROVIDE ANSWERS TO QUESTIONS REGARDING THE ORIGINAL SOLICITATION. QUESTIONS AND ANSWERS ARE ATTACHED.		
2.				TO PROVIDE ADDENDUM ACKNOWLEDGEMENT. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN THE DISQUALIFICATION OF YOUR BID.		
***** END OF ADDENDUM NO. 1 *****						

SIGNATURE <i>Kelli D. Bragg</i>	TELEPHONE 304.343.7551	DATE 4/11/13.
TITLE <i>Sales Manager</i>	FEIN 55-0422766.	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Solicitation

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2

ADDRESS CORRESPONDENCE TO ATTENTION OF:
ROBERTA WAGNER 304-558-0067

V E N D O R
*709040519 304-343-7551 CAPITOL BUSINESS INTERIORS 711 INDIANA AVE CHARLESTON WV 25302

S H I P T O
HEALTH AND HUMAN RESOURCES VARIOUS LOCATIONS AS INDICATED BELOW

DATE PRINTED
03/28/2013

BID OPENING DATE: 04/11/2013 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		425-68		
ONE COMPLETE LOCKABLE, KARDEX KOMPACT OR EQUAL FILE						
***** THIS IS THE END OF RFQ BCF13128 ***** TOTAL:						<u>50,306.37</u>

SIGNATURE <i>Keith D. Priddy</i>	TELEPHONE 304.343.7551	DATE 4/11/13
TITLE <i>Sales Mgr.</i>	FEIN 55-0422766	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: BCF13128

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|----------------------------------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Capitol Business Interiors

Company

Kyle D. Prings

Authorized Signature

4-11-13.

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012

RFQ No. BCF13128

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

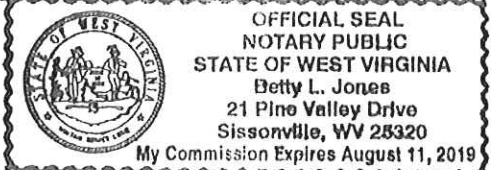
Vendor's Name: Capitol Business Interiors
Authorized Signature: [Signature] Date: 4/11/13

State of West Virginia
County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 11 day of April, 2013.
My Commission expires August 11, 2019.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]



Purchasing Affidavit (Revised 07/01/2012)



208374

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/15/2012

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Commercial Lines - (304) 346-0611 Wells Fargo Insurance Services of West Virginia Inc. One Hillcrest Drive East Charleston, WV 25311-1697	CONTACT NAME: Belinda Boggess Bowyer		
	PHONE (A/C, No, Ext): 304-347-0695	FAX (A/C, No): 304-347-0605	
E-MAIL ADDRESS: belinda.bowyer@wellsfargo.com			
INSURED Capitol Business Interiors 711 Indiana Avenue Charleston, WV 25302	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: Travelers Property Casualty Co of America		25674
	INSURER B: Charter Oak Fire Insurance Co.		25615
	INSURER C: Travelers Casualty Ins Co of America		31194
	INSURER D:		
	INSURER E:		
INSURER F:			

COVERAGES

CERTIFICATE NUMBER: 5189940

REVISION NUMBER: See below

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS				
A	GENERAL LIABILITY			P6308313B604TIL12	11/01/12	11/01/13	EACH OCCURRENCE	\$ 1,000,000			
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 500,000			
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person)	\$ 5,000			
	<input checked="" type="checkbox"/> Contractual Liability						PERSONAL & ADV INJURY	\$ 1,000,000			
	<input checked="" type="checkbox"/> Explosion, Collapse & Underground Co						GENERAL AGGREGATE	\$ 2,000,000			
	GEN'L AGGREGATE LIMIT APPLIES PER:									PRODUCTS - COMP/OP AGG	\$ 2,000,000
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC										\$
B	AUTOMOBILE LIABILITY			P8102112C090COF12	11/01/12	11/01/13	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000			
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person)	\$			
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident)	\$			
	<input checked="" type="checkbox"/> HIRED AUTOS	<input checked="" type="checkbox"/> NON-OWNED AUTOS					PROPERTY DAMAGE (Per accident)	\$			
								\$			
A	<input checked="" type="checkbox"/> UMBRELLA LIAB	<input checked="" type="checkbox"/> OCCUR		PSMCUP8313B604TIL12	11/01/12	11/01/13	EACH OCCURRENCE	\$ 5,000,000			
	<input type="checkbox"/> EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE					AGGREGATE	\$ 5,000,000			
	<input type="checkbox"/> DED	<input type="checkbox"/> RETENTION \$						\$			
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			PSUB7957M16312	11/1/2012	11/1/2013	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS	<input type="checkbox"/> OTH-ER			
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y/N	N/A				E.L. EACH ACCIDENT	\$ 1,000,000			
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000			
							E.L. DISEASE - POLICY LIMIT	\$ 1,000,000			

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

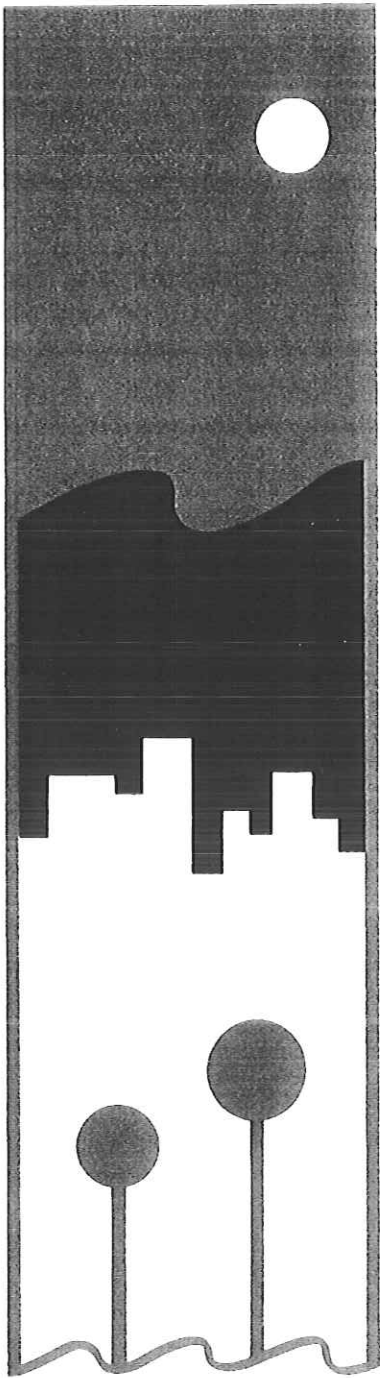
Evidence of Insurance

CERTIFICATE HOLDER**CANCELLATION**

Evidence of Insurance

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



**WEST VIRGINIA
CONTRACTOR
LICENSING
BOARD**



CONTRACTOR LICENSE

Authorized by the

West Virginia Contractor Licensing Board

Number: WV010758

Classification:
CARPET INSTALLATION
SPECIALTY

CAPITOL BUSINESS EQUIPMENT INC
DBA CAPITOL BUSINESS INTERIORS
711 INDIANA AVE
CHARLESTON, WV 25302-3311

Date Issued

NOVEMBER 18, 2012

Expiration Date

NOVEMBER 18, 2013

Jane J. Clayman
Authorized Company Signature

Michael A. Carl
Chair, West Virginia Contractor
Licensing Board

This license, or a copy thereof, must be posted in a conspicuous place at every construction site where work is being performed. This license number must appear in all advertisements, on all bid submissions and on all fully executed and binding contracts. This license cannot be assigned or transferred by licensee. Issued under provisions of West Virginia Code, Chapter 21, Article 11.

STATEMENT OF WARRANTY

Spacesaver has an emphasis on customer satisfaction and continuous improvement. The statement of warranty is our continued commitment that Spacesaver is dedicated to serving our customers.

LIFETIME LIMITED WARRANTY

Subject to the conditions stated below, Spacesaver Corporation ("Spacesaver") warrants to the original purchaser exclusively that the shelving and mobile carriages ("structural frames") manufactured by it will be free from defects in materials and workmanship for the lifetime of the structural frames. For the purposes of this warranty, structural frames shall be deemed to exclude all moving parts, controls and guides that have immediate contact with any moving parts.

10-YEAR LIMITED WARRANTY

Spacesaver also warrants that all carriage drive motors*, shall be free from defects in materials and workmanship for ten (10) years from the date of the customer's written acceptance of installation. During the 10-year warranty period, all parts are included at no cost for 10 years. Labor is included at no cost during the first year of the 10-year warranty period. After the first year, all labor will be charged at the current rate.

5-YEAR LIMITED WARRANTY

Spacesaver also warrants that all equipment, other than structural frames and carriage drive motors*, shall be free from defects in materials and workmanship for five (5) years from the date of the customer's written acceptance of installation. During the 5-year warranty period, all parts are included at no cost for 5 years. Labor is included at no cost during the first year of the 5-year warranty period. After the first year all labor will be charged at the current rate.

*Eclipse™ Powered Systems and Wheelhouse™ High-Density Mobile Storage Systems only. Refer to Warranty for Mobile Rack Systems.

If any warranted equipment shall be proved to Spacesaver's satisfaction to be defective, such equipment shall be repaired or replaced at the option of Spacesaver. All warranty service for any equipment manufactured by Spacesaver must be performed by an authorized Spacesaver factory representative. This warranty shall be void if any portion of the purchase price shall be due but unpaid in accordance with the terms pursuant to which the equipment was sold. This warranty shall not apply to equipment repaired by any party other than an authorized Spacesaver factory representative or to defects or damage caused by (a) acts of God or other circumstances beyond Spacesaver's control, (b) improper installation (unless installation was by authorized factory installer), (c) improper electrical supply or environmental conditions, (d) improper operation, maintenance or storage, or (e) other than normal use or service. **EXCEPT FOR THE EXPRESS WARRANTIES SET FORTH ABOVE, SPACESAVER MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AND SPACESAVER SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

LIMITATION OF LIABILITY

Repair or replacement of any defective equipment, or refund of the purchase price paid by the customer in the event Spacesaver determines such equipment cannot be repaired or replaced, shall be the customer's exclusive remedy for breach of the warranty for product defects, however caused, and in no case shall Spacesaver be liable for incidental, consequential, special or other damages, or loss of profits or revenues whether as a result of breach of contract or warranty, Spacesaver's negligence, or otherwise. Spacesaver shall have no liability for any advice or assistance rendered by any party outside the scope of Spacesaver's written specifications for the manufacture, operation or maintenance of the warranted equipment. Original installation must be performed by Spacesaver trained and certified installers.





TechData

MECHANICAL ASSIST CONTROL OPERATION

MECHANICAL ASSIST SYSTEM OPERATION

Spacesaver's mechanical assist control operation uses an ergonomic three spoked drive handle with rotating knobs to provide an efficient method of moving mobile system carriages that features a user activated safety lock.

BENEFITS

1. Spoke operator hub features permanently lubricated ball bearing assemblies for easy, maintenance free system operation.
2. Adjustable chain tensioner allows easy roller chain tension adjustment without removing face panels.
3. Spoke operators' installed depth of just 3 1/2" (88 mm) maximizes the usable space adjacent to the system.
4. Mechanical assist control operation allows for easy future upgrade to powered control operation.
5. Optional hub lock allows individual carriages to be key locked in position as desired.

*Drive options that allow from 4,000 to 10,000 lbs. of carriage weight to be moved with one pound of effort, are available. Refer to the system ratio charts for details.

DESIGN AND CAPABILITIES

Mechanical assist control provides mechanical advantage for easy carriage operation with an ergonomically designed three spoked drive operator that transfers power to the carriage's drive axle through roller chains and sprockets concealed behind the face panels.

Three spoked handle with rotating soft touch hand knobs, is mounted in the center of each moveable carriage face panel. Dual control systems provide a spoked operator on both of each carriage's face panels.

Each spoke operator houses a safety lock control with a visual indicator. This alerts users to the lock's operational status.



To access a new aisle, first visually check the existing aisle to make sure it is clear of users and obstacles, including stored media protruding from storage housings. When the aisle is clear, release the safety lock(s) on the spoke operator(s) closest to the opened aisle. (The lock's florescent green visual indicator will show the carriage's unlocked status.)

Then move the carriages, by rotating their spoke operators in the desired direction of travel until the new aisle is fully opened (1 lb. of pressure on the spoke handle will move a minimum of 4,000 lbs. of carriage weight*). Finally, depress the safety lock control(s) on the spoke operator(s) adjacent to the new aisle, to lock the carriage(s) in place.

MULTIPLE SYNCHRO SYSTEM RATIOS

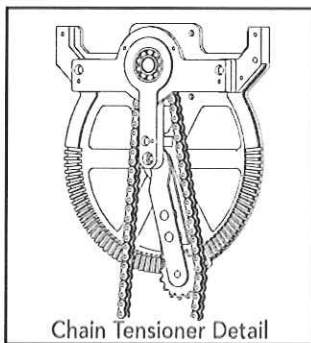
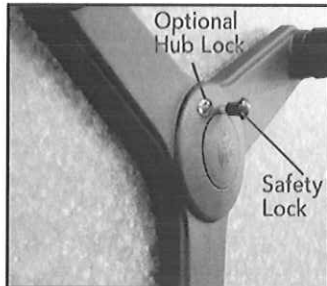
1lb. of Starting Effort Moves This Much Weight	Inches (mm) Moved per Revolution	No. of Turns to Open 36" (914 mm) Aisle
1 lb. : 4,000 lbs.	4.76 (121)	7.6
1 lb. : 6,000 lbs.	3.89 (99)	9.2
1 lb. : 8,000 lbs.	2.86 (73)	12.6
1 lb. : 10,000 lbs.	2.45 (63)	14.7

LINE SHAFT DRIVE SYSTEM RATIOS

1lb. of Starting Effort Moves This Much Weight	Inches (mm) Moved per Revolution	No. of Turns to Open 36" (914 mm) Aisle
1 lb. : 4,000 lbs.	5.31 (134)	6.8
1 lb. : 6,000 lbs.	3.83 (97)	9.4
1 lb. : 8,000 lbs.	3.07 (78)	11.7
1 lb. : 10,000 lbs.	2.38 (60)	15.1

TechData

MECHANICAL ASSIST SYSTEM OPERATION



TECH SPEC

Mechanical Assist Control Operation Requirements:

Each moveable carriage shall be equipped with one ergonomically designed mechanical assist three spoke hub type operator that rotates with easy up or down user effort from any possible starting position of any moveable carriage. Each spoke shall have a rotating, soft-touch, thermoplastic hand grip ergonomically designed to fit the hand 1-3/4" (44 mm) in diameter and 2" (50 mm) long. The center of the mechanical assist operator shall be conveniently located 40" (1015 mm) from the base, and in the center of the face panel, and the spokes shall rotate in a radius of not more than 8-1/2" (215 mm) from the center of the hub. All rotating hub and shaft surfaces in the mechanical assist operator shall ride on ball or roller bearings. The power transfer from the mechanical assist operator to the drive axle shall be through sprockets and a #35 roller chain which shall have an adjustable chain tensioner for easy adjustability, and be accessible from the front of the face panel without its removal. The user's starting effort shall not exceed one pound to move a minimum of *4,000 lbs. All elements of the drive system except the 3 spoke operator and its hub shall be concealed behind the face panel for safety. Each mechanical assist operator shall have a positive on and off anti-roll safety lock with a visual fluorescent green indicator in the unlocked state, located on the operator hub. The entire assembly shall protrude a maximum of 3-1/2" (88 mm) from the finished surface of the face panel. **For keyed hub lock, add:** Each hub operator as indicated on the drawings shall have a keyed hub lock which locks the safety lock preventing carriage movement. (*Weights are variable. See system ratio charts.) **For optional torque limiter, add:** Each hub operator as indicated on the drawings shall have a torque limiter to prevent excessive force from being applied to the drive mechanism.

Specifications subject to change.



Storage Solved®

Website: www.spacesaver.com
E-mail: ssc@spacesaver.com



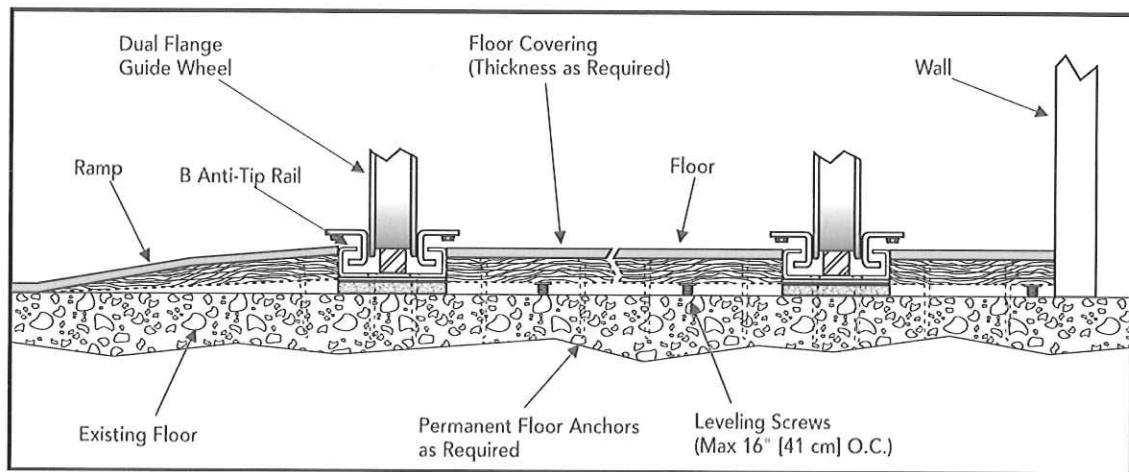
USA
1450 Janesville Avenue
Fort Atkinson, Wisconsin
53538-2798 USA
Telephone 920/563-6362
Toll Free 800/492-3434
Fax 920/563-2702

Canada
266 King Street East
Toronto, Ontario M5A 4L5
Telephone 416/360-1022
Toll Free 800/544-3679
Fax 416/360-7290

Europe
Commonwealth House
148-153 High Holborn
London WC1V 6PJ, UK
Telephone +44 (0)20 7404-7441
Fax +44 (0)20 7404-7442
Email sales@kiuk.co.uk

L FLOOR AND RAMP FOR DUAL FLANGE GUIDANCE SYSTEMS AND B ANTI-TIP RAIL

Spacesaver's L floor and ramp combines a low profile, raised deck between the system's rails that features leveling screw adjustability, permanent floor anchors and a minimum slope entry ramp for a floor and ramp system that is used with B anti-tip rails. The uniform flat surfaces provided accept most floor finishing materials.



BENEFITS

1. Leveling screw adjustability and permanent floor anchors ensure a solid, level walking surface.
2. Plywood construction that uses exterior glue resists moisture and provides uniform surfaces that can be painted, varnished, carpeted or tiled.
3. One-piece ramp section allows for uninterrupted floor covering installation with a finished, homogenous appearance.
4. Ramp recessed under carriages and platforms permits full utilization of aisle space in front of the system.

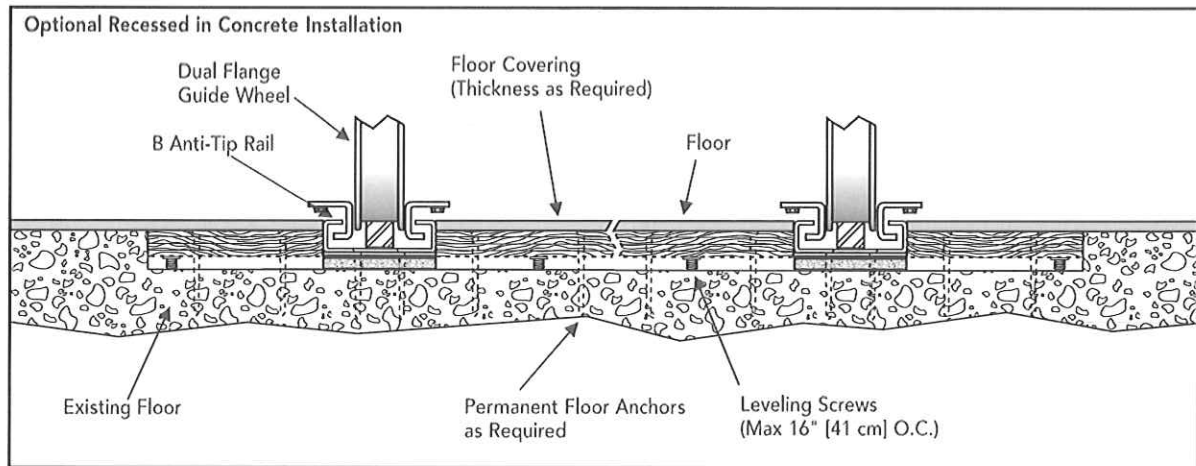
DESIGN AND CAPABILITIES

L floor for top mounted systems and for systems installed in floor recesses, is constructed of 3/4" (19 mm) plywood panels that are sized to fit between the system's rails. Floor panels are aligned with the rail's C channel and then leveled using leveling screws to give the raised floor additional support and to provide infinite adjustability that allows the top surface of the system's finished floor material to be installed even with the top surface of the rail assembly. The floor is then anchored in place with permanent floor anchors.

For top mounted systems, one-piece ramp sections of the same material are installed at the entrance(s) to the system, recessed under the ends of the carriages, to provide a sloped surface between the existing floor and the system's raised plywood floor that does not extend into the aisle space in front of the system.

TechData

L FLOOR AND RAMP FOR DUAL FLANGE GUIDANCE SYSTEMS AND B ANTI-TIP RAIL



APPLICATION

L floor and ramp for dual flange guidance systems and B anti-tip rail is compatible with all Spacesaver electric, mechanical assist and manual systems using B anti-tip rail when rail and floor systems are installed on top of existing flooring or recessed into concrete depression.

TECH SPEC

Raised Floor:

Provide 3/4" (19 mm) underlayment grade plywood panels to raise finished floor (SEE RELATED WORK BY OTHERS FOR FLOOR FINISH MATERIALS) to top of rail. Floor shall have integrated leveling screws maximum 16" (41 cm) on center and permanent floor anchors.

For top mounted installations, add: Provide a ramp of the same material at front (**For dual entry systems, add:** and rear) of assembly.

For recessed installations, add: Rails to be recessed into floor so that top of rail is level with finished floor material. Mobile manufacturer to supply recess detail. (SEE RELATED WORK BY OTHERS FOR CONCRETE FORM RECESSED DETAIL.)

Specifications subject to change.



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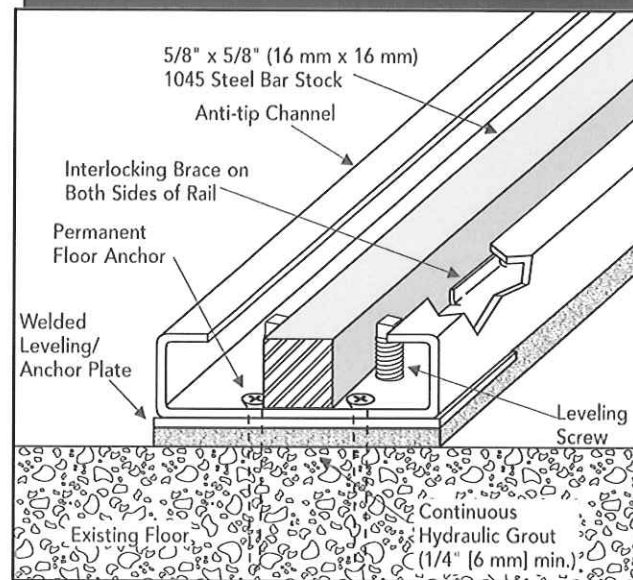
RAIL SYSTEMS

B ANTI-TIP RAIL

Spacesaver's B anti-tip rail assembly of low profile bar stock rail welded into a C-channel base provides leveling screw adjustability, permanent floor anchors and a narrow wheel guidance gap.

BENEFITS

1. Harder steel means that rails will wear less and last longer than traditional 1018 bar stock rails.
2. Powder coat finish for anti-tip C-channel provides durability that stands up to the wear and tear of heavy usage.
3. Anti-tip flanges combined with the carriage's in-rail anti-tip brackets provide built-in system stability for anti-tip applications.
4. Lower profile increases the amount of vertical space that can be used for storage.
5. Flush-with-floor rail installation capabilities with narrow wheel guidance gaps allows carts to roll smoothly in the system's aisles.
6. Interlocking braces and splice joints provide carriage operation that is consistently smooth and reliable.
7. Recess floor mount capabilities permit flush-with-floor rail installation without ramps and maximize the amount of vertical space that is usable for storage.
8. Extending rail assemblies under stationary platforms means carriage, storage housings and face panels will be on an even plane and provide a homogenous, level appearance.
9. Welded construction, leveling screw adjustability, continuous grouting, and permanent floor anchors ensure long term system dependability.



INSTALLATION

1045 bar stock steel welded into the center of a C-channel steel base ensures that the rail won't separate from the base, and results in an overall rail assembly profile of just 7/8" (22 mm), plus grout, and wheel guidance channels of just 5/8" (16 mm) on either side of the rail.

The C-channel features a durable powder coat paint finish and provides anti-tip flanges for seismic applications and installations with a high carriage height-to-width ratio.

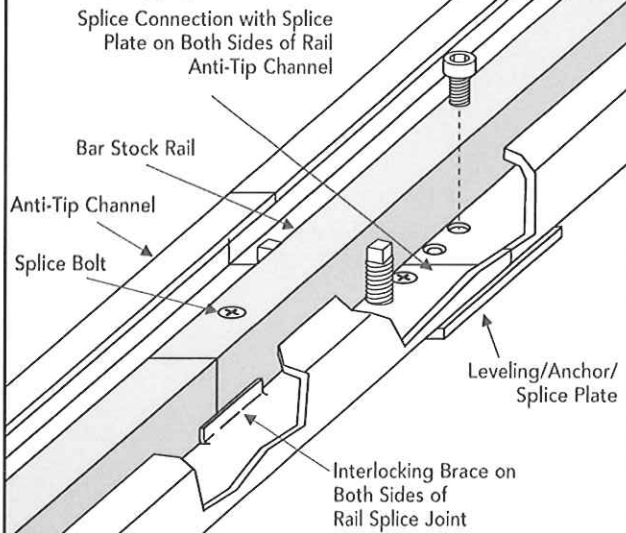
Rail assembly lengths are connected by interlocking braces and bolted plates that splice the sections together and provide permanent horizontal and vertical alignment. B anti-tip rails are aligned on the floor and can be top mounted and finished with plywood ramp and decking or recessed in concrete. In systems with stationary platforms, the rail assemblies are positioned to extend fully under the platforms and provide a level plane for platform installation.

(continued on page 2)

TechData

B ANTI-TIP RAIL

Interlocking Splice Joint



INSTALLATION CONTINUED

Once positioned, rails are leveled using leveling screws for precise installation and infinite adjustability. Leveled rails are secured with permanent floor anchors for firm, solid attachment.

To minimize rail deflection and help disburse wheel point loads to maximum floor areas, rail installation is completed with non-shrink, continuous grout under the entire rail. This step ensures that all gaps and voids are filled for total rail support. Carriages with in-rail anti-tip brackets designed to work with B anti-tip rail are installed on the rail assemblies.

APPLICATION

B anti-tip rail is compatible with all Spacesaver powered, mechanical assist and manual carriages utilizing dual flanged guidance systems and dual flange in-rail anti-tip brackets.

NOTE: All Spacesaver mobile storage installations requiring seismic certification need calculations from a structural engineer licensed in the jurisdiction where the installation will be located.

TECH SPEC

Rail:

Rail system shall be 5/8" x 5/8" (16 mm x 16 mm) 1045 steel bar interlocked and welded into a powder coat finished base channel minimum 11 ga. 3-7/16" (37 mm) wide with 3/4" (19 mm) return anti-tip flanges. Rail assembly shall have welded leveling/anchor plates maximum 20" (508 mm) o.c. with leveling screw adjustability and be permanently anchored to the floor. Overall rail assembly profile shall be 7/8" (22 mm) high, plus grout. All rail splice joints shall have interlocking braces and splice plates which provide permanent horizontal and vertical rail alignment. Rail guidance gaps shall be maximum 5/8" (16 mm). All rail assemblies shall be fully grouted with a non-shrink hydraulic cement type grout with an 8,000 lbs. p.s.i. (562 kg/cm²) strength after curing.

Specifications subject to change.



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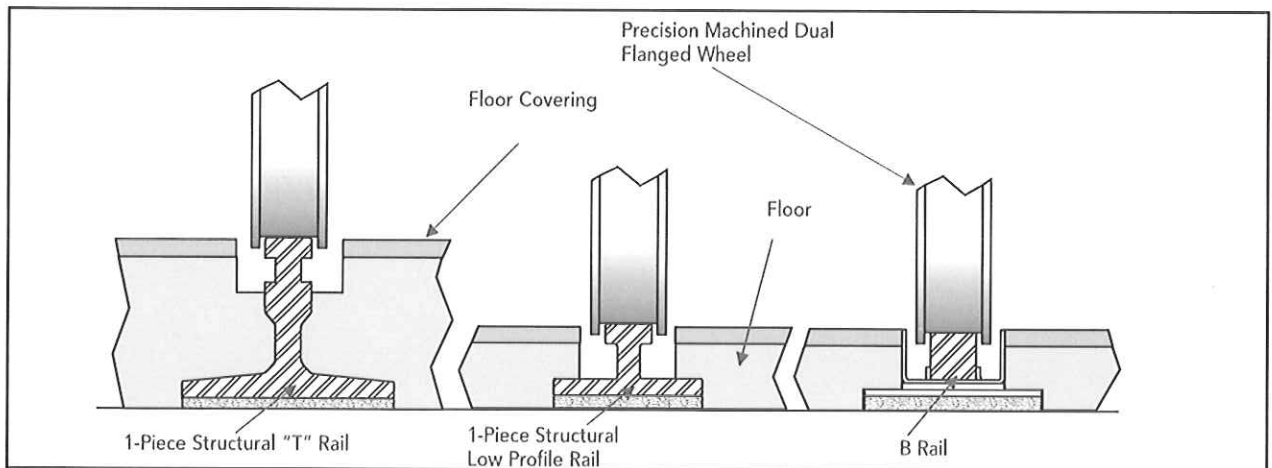
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DUAL FLANGE GUIDANCE SYSTEM

Spacesaver's dual flange guidance system features precision machined and balanced wheels with a dual flange design that provide an all-rail guidance system with optional anti-tip capabilities.



BENEFITS

1. Permanently lubricated and shielded bearing assemblies provide long term, maintenance free operation.
2. Synchronized wheel rotation, all wheel guidance and precision machined wheels work together to promote smooth, easy, parallel carriage travel, minimize pressure and wear to the system, eliminate carriage racking and wheel slippage, and ensure long system life.
3. Greater carriage strength and rigidity means long term positive alignment for consistently parallel operation and increased weight and storage capacity.
4. Optional anti-tip devices provide system stability for seismic applications and installations with a high carriage height to width ratio.

DESIGN AND CAPABILITIES

Dual flange drive systems from Spacesaver offer economical mobile system guidance that provides:

- Two precision machined and balanced wheels per wheel channel assembly, each with two permanently lubricated and shielded ball bearing assemblies for long term wheel roundness and smoothness.
- A dual flange guide wheel design that results in wheel guidance channels that are only 1/2" (13 mm) wide (5/8" (16 mm) for systems with anti-tip devices).

Dual flange guidance systems work with all system drives and unit welded carriages to provide quality system performance in several ways:

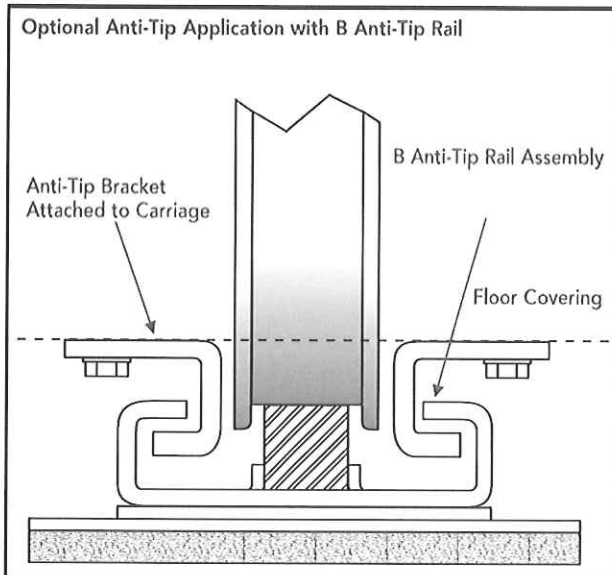
- Machined and balanced wheel and bearing assembly ensures balanced wheel rotation and drive transmission for smooth, parallel carriage movement.
- Unit welded carriage construction provides greater strength and rigidity.
- Exclusive carriage design with increased structural surface area maximizes system strength.

NOTE: All Spacesaver mobile storage installations with seismic criteria require calculations from a structural engineer licensed in the state where the installation will be located.

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DUAL FLANGE GUIDANCE SYSTEM

Optional Anti-Tip Application with B Anti-Tip Rail



APPLICATION

Dual flange guidance systems are available on Spacesaver powered, mechanical assist and manual carriage systems. Dual flange guidance systems are compatible with Spacesaver B rail, L load rail and T load rail. B anti-tip rail is used when optional anti-tip hooks are utilized. Other specialized rail options are also available to satisfy floor loading criteria. Contact factory for more details.

TECH SPEC

Guidance System:

Provide two dual flanged wheels on all wheel channel assemblies. (Refer to drawings)

For optional anti-tip capabilities, add: Provide two carriage-mounted, steel, anti-tip hooks at the leading edges of each wheel channel assembly which intermember with the anti-tip rail assembly. (Anti-tips are required on carriages when the system height exceeds four times the carriage width. When the system height exceeds six times the carriage width, contact the factory.)

Specifications subject to change.



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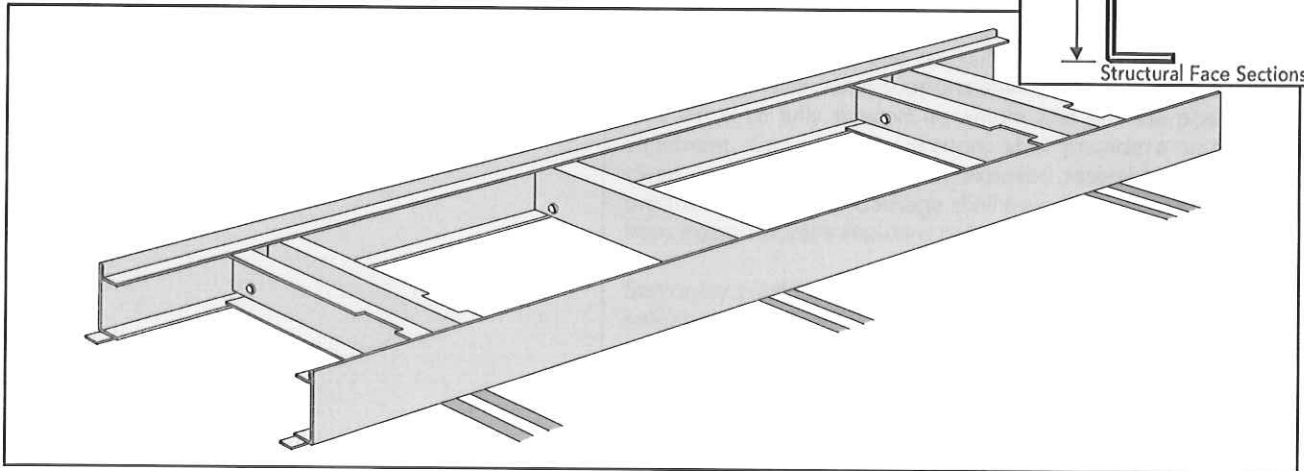
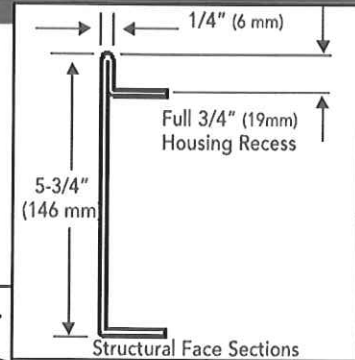
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STEEL CARRIAGES

STANDARD PROFILE WELDED STEEL CARRIAGES

Spacesaver's standard profile steel carriages feature an exclusive structural design with the flexibility to satisfy today's unique storage needs featuring state-of-the-art robotic and fixture welded construction to provide a carriage system that outlasts and outperforms any other mobile carriage system on the market today.



DESIGN AND CAPABILITIES

Standard profile, fixture welded, steel carriages work with exclusive drive systems to minimize pressure and wear on the entire system by eliminating carriage racking and ensuring positive wheel alignment without binding or wheel slippage. They also feature two piece wheel channel sections that fully protect patented wheel assemblies, and a unique structural design with:

1. A full 5-3/4" (146 mm) structural face with a 3/4" (19 mm) hem for maximum steel strength and increased carriage load capacity (minimum capacity 1,000 lbs. [1500 kg] per linear carriage foot [meter]).
2. The flexibility to accommodate all types of new and existing storage housings, including those that are custom designed.
3. A 3/4" (19 mm) recess for positive alignment and secure mounting of storage housings so they don't shift or become dislodged from the carriage.
4. Smooth, clean face members that are free of

exposed assembly holes and protruding hardware, and powder coat painted for a hard, durable environmentally safe finish, with no offgassing or emissions after curing, that are available in any one of Spacesaver's standard colors.

5. Special face panel supports that ensure accurate alignment and secure attachment of face panels and full support of face panel weight.

CARRIAGE CONSTRUCTION

Standard profile steel carriages use robotic and fixture unit welding to join all wheel support channel members to face members. This exclusive welded assembly and increased structural surface area give Spacesaver carriages maximum strength and rigidity, especially when compared to riveted or bolted structures.

This uniframe construction and patented drive system's smooth, balanced wheel rotation keeps the carriages structurally square and true for consistently precise parallel carriage movement, under even the heaviest of loads.



TechData

SHELVING SYSTEMS

UNIVERSAL SHELF SYSTEM (4-POST)

Spacesaver's Universal (4-post) shelf system provides the most versatile shelving and storage system on the market today.



SHELF FILING

Offices in banks, data processing centers, healthcare institutions, business and government all face the same paradox: squeezing ever-increasing hard-copy files, records and supplies into ever-decreasing storage space. The solution is the Spacesaver Universal shelf system. Intelligently planned, ergonomically designed Spacesaver Universal shelving attractively organizes files for improved visibility, accessibility and organization.

BENEFITS

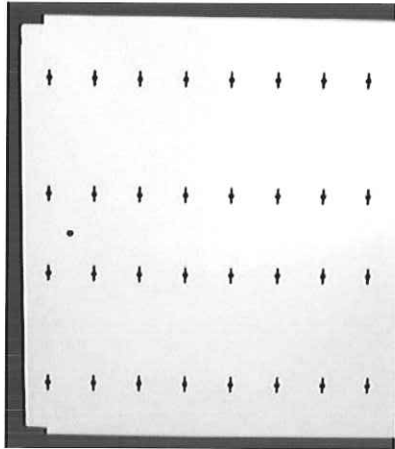
1. Easy Assembly: No nuts or bolts are needed. Can be quickly installed, expanded or relocated.
2. Strength and Durability: Systems feature the strength of cold-rolled steel with gauge thickness that meets or exceeds U.S. Standards.
3. Attractiveness: All shelving features a quality, powder coat paint finish that resists abrasion. Spacesaver makes available a variety of color and paint finishes to match any need.
4. Storage Capacity and Accessibility: Offers clear, straight-through shelves for accommodation of larger media. Allows easy accessibility and visibility of media.
5. Flexibility/Adjustability: Shelves are easily adjusted. As you reconfigure your office and your storage or filing needs change, Spacesaver flexibility means economy.

STORAGE

Throughout business and industry – in supply rooms, warehouses, tool cribs, utility plants, factories, military bases, healthcare facilities, correctional institutions, wholesalers and retailers, vaults, wherever "stuff" is stored – Spacesaver Universal shelf systems are successfully meeting the most rigorous demands...combining superior strength with a furniture grade design appearance.

TechData

UNIVERSAL SHELF SYSTEM (4-POST)



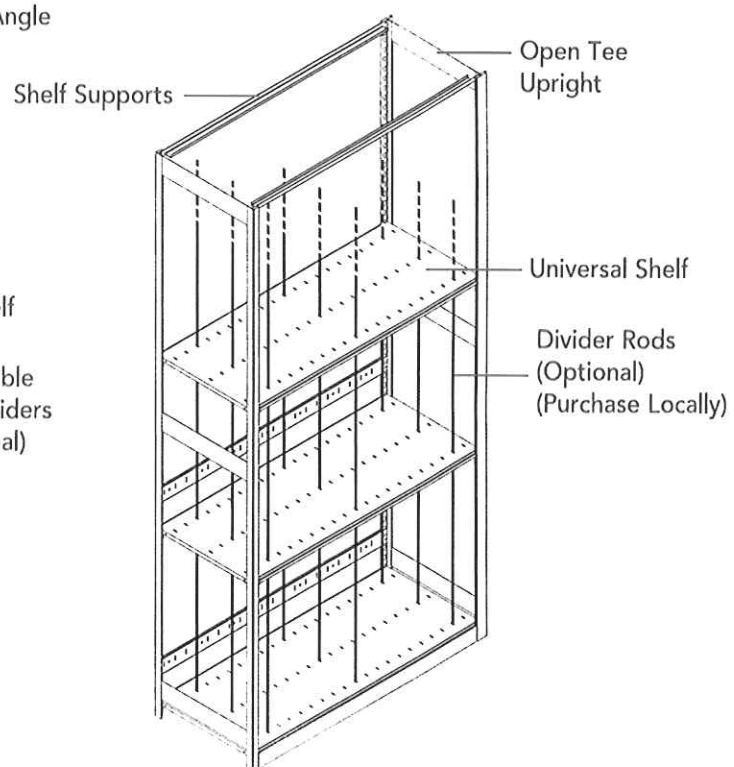
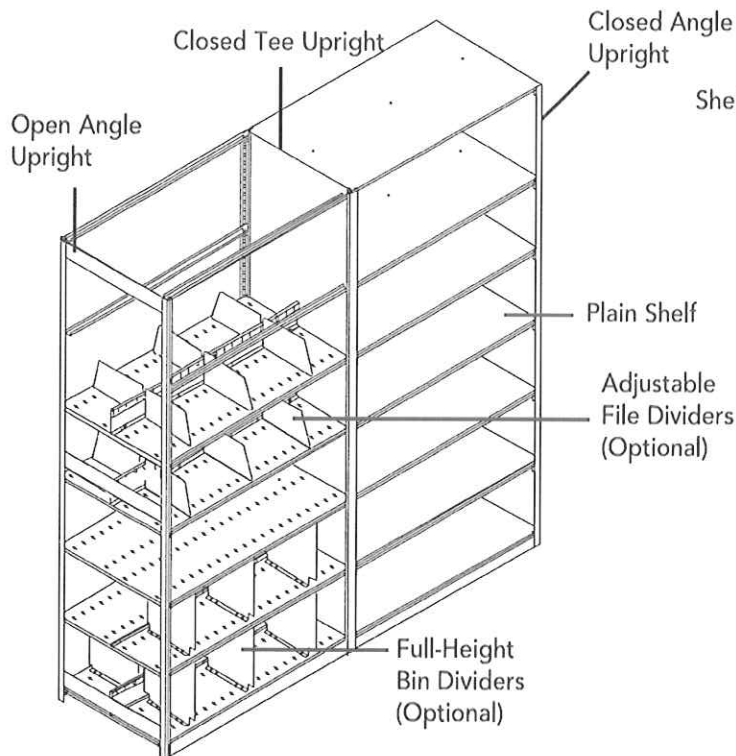
- Boltless, wedge-lock design: Designed to assemble without fasteners or clips, shelf support rivets lock into the keyholes on the inner side of the upright. Strength is unmatched, with no cross-bracing required.
- The unique, patented, multi-function slot pattern accommodates file dividers, bin dividers and divider rods. A full range of shelving options and accessories allows customization to your storage needs and filing requirements.

DESIGN AND CAPABILITIES

- Cold-rolled steel shelves fit over shelf supports for a clean, smooth, solid shelf area.
- "Tee" uprights are used to add extra, adjacent sections. Use the "Angle" upright to finish a row.
- Unit-welded "Angle" and "Tee" uprights can be open style or single-wall, fully closed style for added strength and appearance.

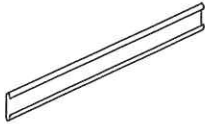
APPLICATION

- Ideal for storage and general filing requirements of warehouses, accounting and financial firms, health centers and government facilities.
- All Spacesaver shelving is easily adaptable to both stationary and mobile system applications.

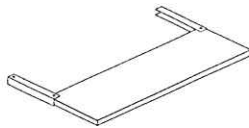


Shelving Options and Accessories

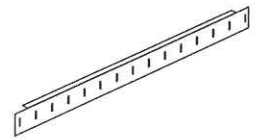
Label Holder



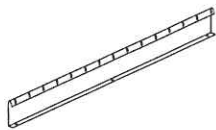
Sliding Reference Shelf



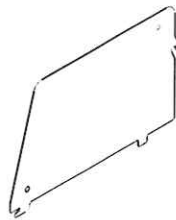
Back Stop - Slotted



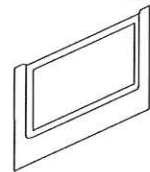
Center Stop - Slotted or Plain



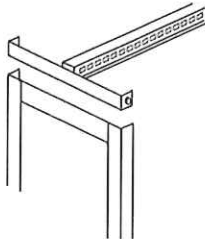
File Divider



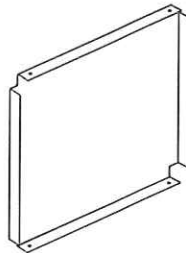
Card Holder



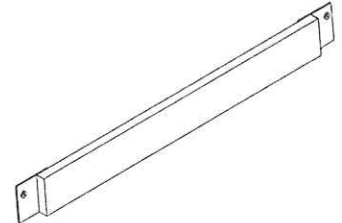
Tape Seal Bar and Hanger



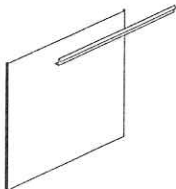
Bin Divider



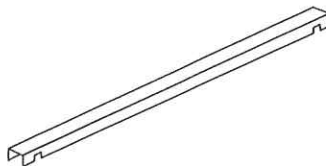
Acrylic Bin Front



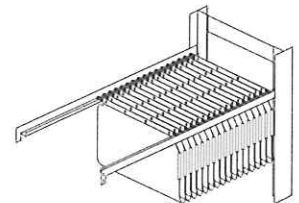
Back and Back Holder



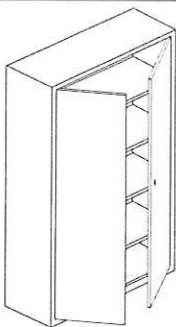
Shelf Reinforcement



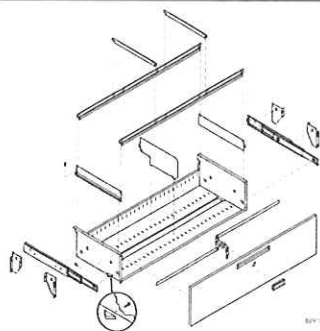
Suspended Pockets



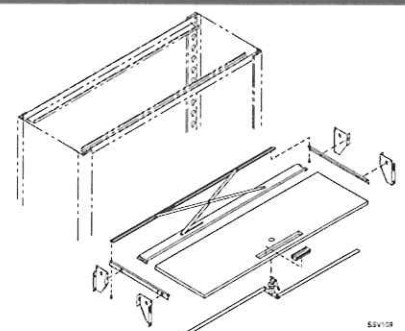
Lockable Hinged Doors



File & Storage Drawers



Receding Doors



Tech Data

UNIVERSAL SHELF SYSTEM (4-POST)

TECH SPEC

Universal Shelf System: SHELVES

Standard shelves shall be 9/16" (14 mm) in height and be formed of 22 ga. (.75 mm) cold rolled steel with flanges on all four sides. Front and rear flanges shall also be turned "down" and "in". Shelves to be adjustable on 1-1/2" (38 mm) centers vertically. Shelves to be supported front and back by two shelf supports of 14 ga. (1.9 mm) min. hot rolled steel. Full depth (or through) shelves shall have mounting holes for attachment of an optional center stop. Patented multi-function slots (for optional file dividers, bin dividers and divider rods) shall be placed on 2" (50 mm) centers across entire shelf length (starting 1" (25 mm) from each end). Height of shelf (including supports) shall be 3/4" (19 mm).

Heavy-duty shelves shall be 9/16" (14 mm) in height and be formed of 18 ga. (1.2 mm) cold rolled steel with flanges on all four sides. Front and rear flanges shall also be turned "down" and "in". Shelves to be adjustable on 1-1/2" (38 mm) centers vertically. Shelves to be supported front and rear by two shelf supports of 14 ga. (1.9 mm) hot rolled steel. Full depth (or through) shelves shall have mounting holes for attachment of optional center stop. Patented multi-function slots* (for optional file dividers, bin dividers and divider rods) shall be placed on 2" (50 mm) centers across entire shelf length starting 1" (25 mm) from each end. Height of shelf (with heavy-duty shelf support) shall be 1-1/4" (31 mm).

U.S. Customary Units (inches):

Standard Height 9/16	Heavy Duty 9/16
Shelf Depths	Shelf Depths
10 12 13 15 16 18 20 24 26 30 32 36	12 13 15 16 18 24 26 30 32 36

U.S. Customary Units (inches):

Shelf Width 30	36	42	48
Clear Width 28	34	40	46

Metric Dimensions (mm):

Standard Height 14 mm	Heavy Duty 14 mm
Shelf Depths	Shelf Depths
254, 304, 330, 381, 406, 457 508, 609, 660, 762, 812, 914	304, 330, 381, 406, 457 609, 660, 762, 812, 914

Metric Dimensions (mm):

Shelf Width 762	914	1066	1219
Clear Width 711	863	1016	1168

UPRIGHTS

Uprights shall consist of 18 ga. (1.2 mm) cold rolled steel formed into either a 2" (50 mm) wide "Tee" shape common post, or a 1" (25 mm) wide "Angle" shape end post. Keyhole-shaped slots are placed on 1-1/2" (38 mm) centers vertically on the inner face of the posts. "Closed" uprights shall have a 24 ga. (.60 mm) closure panel between the posts. "Open" type uprights shall have at least three 3" (76 mm) wide x 18 ga. (1.2 mm) spacers between the posts.

U.S. Customary Units (inches):

Upright Height 76 1/4	85 1/4	88 1/4	97 1/4
Useable Height 73 1/2	82 1/2	85 1/2	94 1/2

Metric Dimensions (mm):

Upright Height 1936	2165	2241	2470
Useable Height 1866	2095	2171	2400

Specifications subject to change.



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TechData

4-POST / CASE-TYPE SHELVING

RATED UNIFORM LOAD CAPACITY

Shelf Size (w x d)	STANDARD (22 GAUGE) SHELF WITH "F" TYPE SHELF SUPPORTS ¹		HEAVY DUTY (18 GAUGE) SHELF WITH "H" TYPE (14 GAUGE) SHELF SUPPORTS		HEAVY DUTY (18 GAUGE) SHELF WITH "H" TYPE (11 GAUGE) SHELF SUPPORTS	
	Shelf Capacity (lbs.)	No. of Reinforcements	Shelf Capacity (lbs.)	No. of Reinforcements	Shelf Capacity (lbs.)	No. of Reinforcements
30" X 10"	200*					
30" X 12"	200*		775*			
30" X 15"	200*		775*			
30" X 18"	200*		250			
30" X 20"	200	1				
30" X 24"	200	1	300	1		
30" X 30"	200	2	410	2		
30" X 36"	200	2	500	2		
36" X 10"	250*					
36" X 12"	250*		675*		775*	
36" X 15"	250*		675*		775*	
36" X 18"	250*	1	300		320	
36" X 20"	250	1				
36" X 24"	250	1	380	1	400	1
36" X 30"	250	2	440	2	550	2
36" X 36"	250	3	650	3	700	3
42" X 10"	300*					
42" X 12"	300*		575*		675*	
42" X 15"	300*		575*		675*	
42" X 18"	300*	1	335		335	
42" X 20"	300	2				
42" X 24"	300	2	530	2	600	2
42" X 30"	300	3	440	2	460	2
42" X 36"	300	3	575	3	610	3
48" X 10"	300*					
48" X 12"	300*		475*		575*	
48" X 15"	300*		475*		575*	
48" X 18"	300*	1	300		400	
48" X 20"	300	2				
48" X 24"	300	2	500	2	640	2
48" X 30"	300	3	430	2	450	2
48" X 36"	300	3	475	3	560	3

NOTES: Spacesaver shelf capacities are based on independent tests performed in accordance with ANSI MH 28.1-1982 American National Standard specification for the design, testing, utilization, and application of industrial steel shelving. Loads are based on shelf deflection not to exceed L/140 (L = distance between uprights). (*)The rated capacities above marked with an asterisk are based on shelf support only. (†) Standard (22 gauge) shelves use "F" type shelf supports of two different gauges: 14 gauge for 30" and 36" wide shelves and 11 gauge for 42" and 48" wide shelves.

Case-Type Shelf Capacities: Although the above chart does not expressly identify Case-Type (22 Gauge) Shelf capacities, Case-Type Shelf capacities are the same as Standard (22 Gauge) 4-Post Shelf capacities. For example, Case-Type Shelf widths are 2" less than corresponding Standard 4-Post Shelf widths, therefore, the capacity of a 28 x 15 Case-Type Shelf is the same as that of a 30 x 15 Standard 4-Post Shelf in the above chart.

Overall Shelving Upright Capacities:

- Open Upright = 2,590 lbs.
- Closed Upright = 3,650 lbs.
- Case-Type Upright = 4,000 lbs.

Individual Shelf Heights:

- 3/4" high, when used with "F" Type Shelf Supports.
- 1-1/4" high, when used with "H" Type Shelf Supports.

(Upright capacities based on dynamic, mobile shelving loads on a maximum upright height of 97".)



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