

Georgia-Pacific

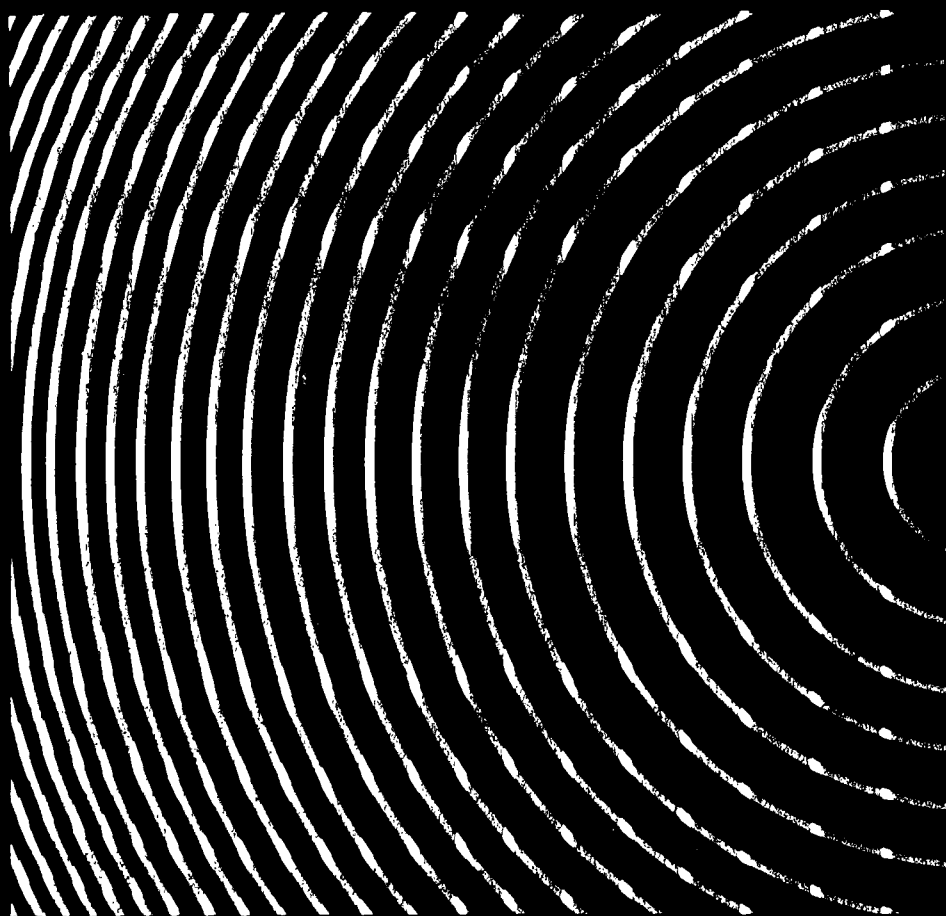


PLAINTIFF'S EXHIBIT

GP-1076

Sounds Great

1/4" incombustible
gypsum
sound
deadening
board



SGP 0026072

introduction

$\frac{1}{4}$ " Incombustible Gypsum Sound Deadening Board is a new concept in Sound Control, offering high STC ratings, combined with strength and economy. It can be used in wood and metal stud partitions, as well as in floor-ceiling assemblies. The product is a unique formulation, and is easily identifiable by its green face paper. G-P Incombustible $\frac{1}{4}$ " Gypsum Sound Deadening Board has been tested in several assemblies, both floor-ceiling and partitions, and some of the significant test results and details are contained in these pages. These sound tests were conducted under laboratory conditions where controlled environment reduces variables to a minimum. Joints of G-P $\frac{1}{4}$ " Gypsum Deadening Board do not need joint treatment for these ratings. Since Georgia-Pacific Corporation does not have prior knowledge of specific building design, and its construction or the methods of application under specific job conditions, no warranty of field performance is made.

Incombustible—Unlike other Sound Boards, this product is made of fire resistant gypsum.

Low Cost—Can obtain 1 hour fire ratings and high STC ratings with $\frac{1}{2}$ " G-P Firestop® as well as $\frac{5}{8}$ " G-P Firestop®. This results in lower cost partitions.

Strong

The $\frac{1}{4}$ " Gypsum Sound Deadening Board gives the partition added racking strength, and when combined with $\frac{1}{2}$ " or $\frac{5}{8}$ " Gypsumboard, gives a tough combination that will withstand much abuse.

Eternawall—Several of the following assemblies have been tested with Eternawall™ vinyl surfaced gypsumboard to provide the facing layer with added durability.

Important: These tests were made under stabilized laboratory conditions. In an actual building, every effort must be made to eliminate noise leaks and flanking paths. A recognized sealant, or equivalent material should be used over top and under bottom plates or tracks. Doors, windows, outlet boxes and other variations from the tested assembly will affect the sound rating. Careful construction practices should be followed if these listed STC ratings are to be obtained.

wood stud partition

STC 45

fire rating

1 hr. combustible, test

UL No. U 312

(formerly 30—1 hr.)

partition properties

sound test data

Test No.: BW-27FT

Date: July 6, 1967

Conducted By: Geiger & Hamme, Inc.

Test Partition—Height: 9'

Width: 14' 1/2"

Thickness: 5 3/8"

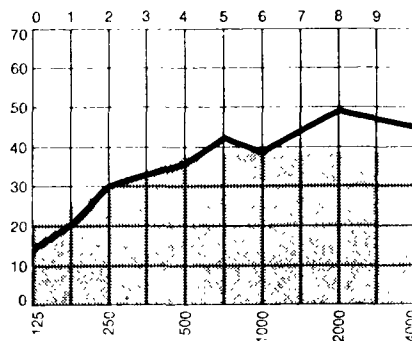
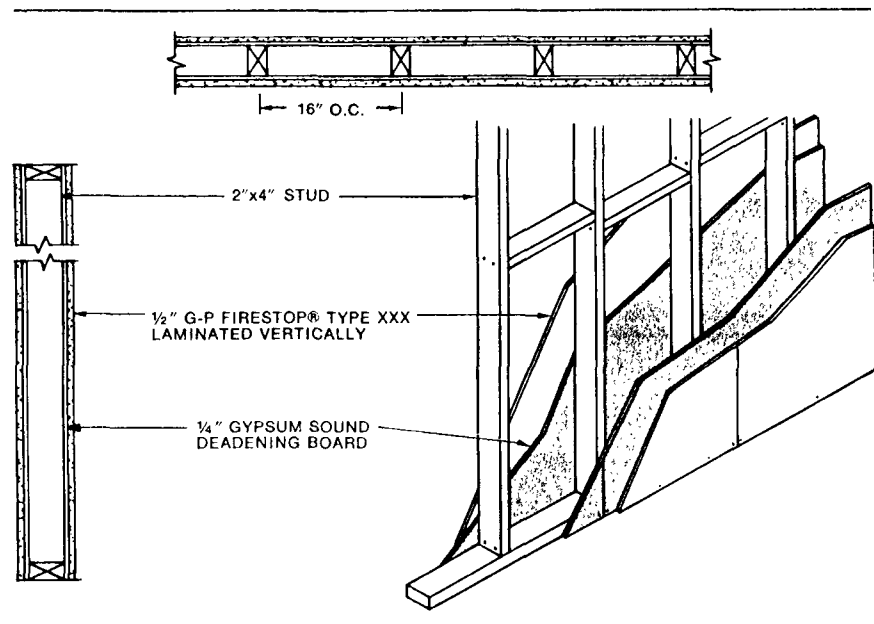
Weight: 7.60 lbs/sq. ft.

Sound Transmission Class 45 db

9 Frequency Average 43.1 db

11 Frequency Average 45.6 db

system 100



materials used

1. 2" x 4" Wood Studs
2. 2" x 4" Wood Plates
3. 1/4" G-P Gypsum Sound Deadening Board
4. 1/2" G-P Firestop® Type XXX Wallboard or Firestop® Eternawall™
5. 5d cc Nails
6. 4d Finish
7. G-P Laminating Compound

application details

1. Nails 2" x 4" studs 16" o.c. to 2" x 4" wood plates at the floor and ceiling.
2. Apply a single layer of 1/4" G-P Gypsum Sound Deadening Board vertically to both sides and secure with 5d-c.c. nails spaced 12" at studs and plates. Joints should be staggered.
3. Apply a single layer of 1/2" G-P Firestop® Type XXX wallboard or Firestop® Eternawall™ vertically to both sides, over the 1/4" Gypsum Sound Deadening Board, by strip laminating with G-P Laminating Compound. Vertical joints of the 1/2" Firestop® should fall between the wood studs and should be nailed at top and bottom plates using 4d coated nails spaced 6" o.c.
4. Tape and finish in the approved manner.

wood stud partition

STC 41

fire rating

1 hr. combustible, test

UL No. U 312

(formerly UL 30--1 hr.)

partition properties

sound test data

Test No.: BW-13FT

Date: July 21-28, 1966

Conducted By: Geiger & Hamme, Inc.

Test Partition--Height: 9'

Width: 14' 1/2"

Thickness: 5 1/8"

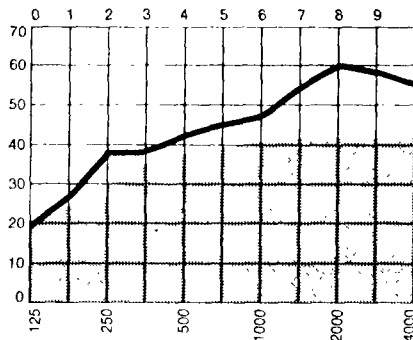
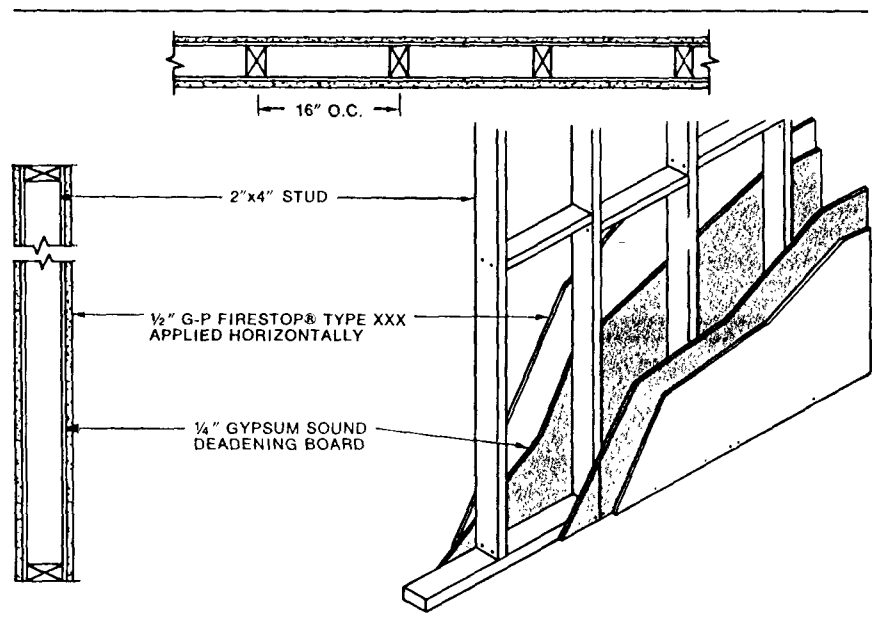
Weight: 7.96 lbs./sq. ft.

Sound Transmission Class 41 db

9 Frequency Average 40.8 db

11 Frequency Average 43.6 db

system 101



materials used

1. 2" x 4" Wood Studs
2. 2" x 4" Wood Plates
3. 1/4" G-P Gypsum Sound Deadening Board
4. 1/2" G-P Firestop® Type XXX Wallboard
5. 1 1/4" GWB-54 Nails
6. 1 5/8" GWB-54 Nails

application details

1. Nail 2" x 4" wood studs 16" o.c. to 2" x 4" wood plates at the floor and ceiling.
2. Apply a single layer of 1/4" G-P Gypsum Sound Deadening Board vertically to both sides and secure with GWB-54, 1 1/4" Drywall nails spaced 8" o.c. at the edge joints. Joints should be staggered.
3. Apply a single layer of 1/2" G-P Firestop® Type XXX Wallboard horizontally to both sides over the 1/4" Gypsum Sound Deadening Board and secure with GWB-54, 1 5/8" nails.
4. Tape and finish in the approved manner.

SGP 0026075

wood stud partition

STC 47

fire rating

1 hr. combustible, est.

(based on UL No. U312,
formerly 30-1 hr.)

partition properties

sound test data

Test No.: BW28ST

Date: March 15, 1968

Conducted By: Geiger & Hamme, Inc.

Test Partition—Height: 9' 0"

Width: 14' 1/2"

Thickness: 5 3/8"

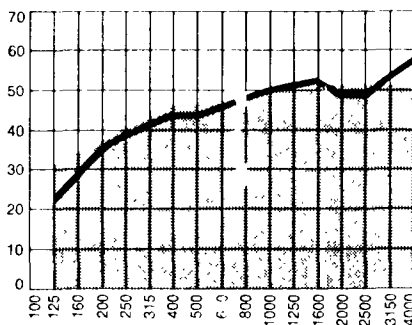
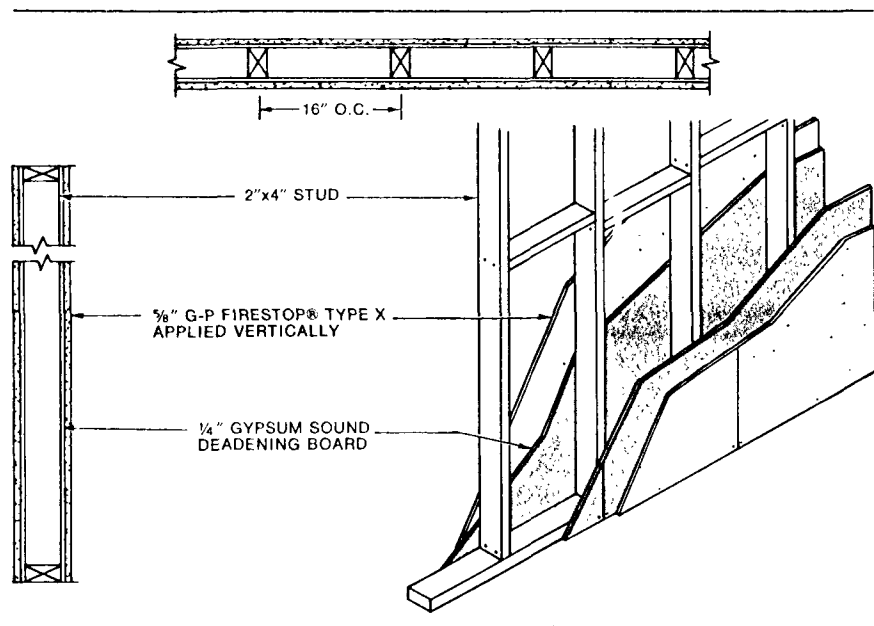
Weight: 8.30 lbs/sq. ft.

Sound Transmission Class 47 db

9 Frequency Average 43.0 db

11 Frequency Average 44.4 db

system 102



material used

1. 2" x 4" Wood Studs
2. 2" x 4" Wood Plates
3. 1/4" G-P Gypsum Sound Deadening Board
4. 5/8" G-P Firestop® Type X Wallboard or Firestop® Eternawall™
5. G-P Laminating Compound
6. 4d Finishing Nails
7. 5d Nails

application details

1. Nail 2" x 4" wood studs 16" o.c. to 2" x 4" wood plates at floor and ceiling.
2. Apply single layer of 1/4" G-P Gypsum Sound Deadening Board vertically to both sides and secure with 4d nails spaced 12" o.c. at studs and plates. Joints to be staggered.
3. Apply a single layer 5/8" G-P Firestop® Type XXX wallboard or Firestop® Eternawall™ vertically to both sides, over the 1/4" G-P Gypsum Sound Deadening Board by strip lamination 16" o.c. with G-P Laminating Compound. Vertical joints of 5/8" should fall between the wood studs and should be nailed at top and bottom plates with 5d nails 6" o.c.
4. Tape and finish in the approved manner.

SGP 0026076

staggered wood stud partition

STC 52

(with insulation)

STC 47

(no insulation)

fire rating

1 hr. combustible, est.

partition properties

sound test data

Test No.: BW-29ST (no insulation)

Test No.: BW30ST (with insulation)

Dates: March 29, 1968-April 5, 1968

Conducted By: Geiger & Hamme, Inc.

Test Partition—

Height: 9' 0"

Width: 14' 1/2"

Thickness: 7 1/8"

Weight—

8.79 lbs./sq. ft. (no insulation)

8.92 lbs./sq. ft. (with insulation)

Sound Transmission Class 47 (no insul.)

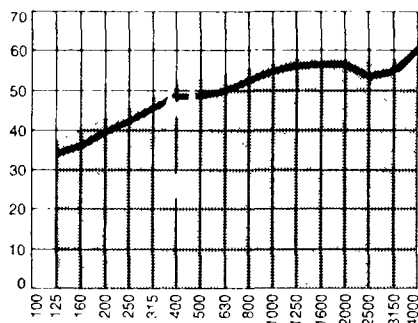
Sound Transmission Class 52 (with insul.)

9 Frequency Average 43.6 (no insul.)

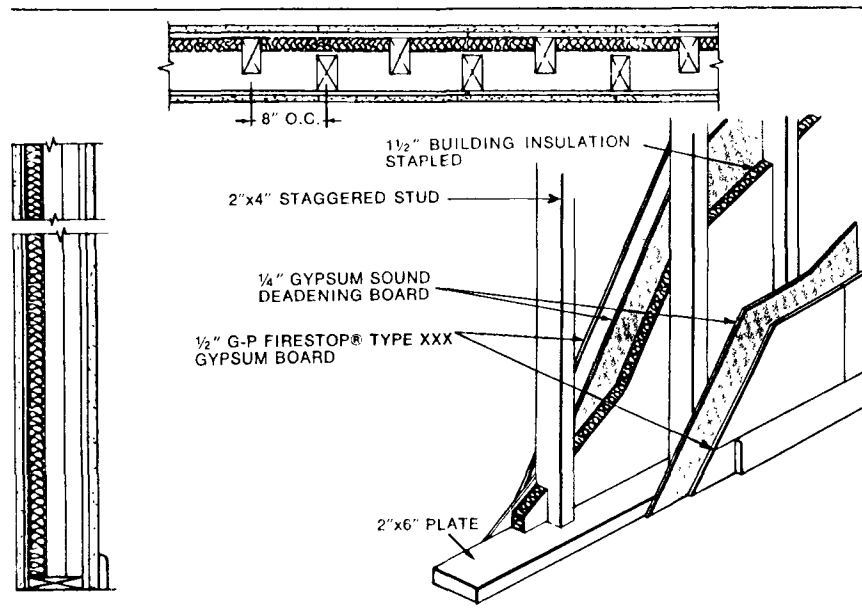
9 Frequency Average 47.7 (with insul.)

11 Frequency Average 45.2 (no insul.)

11 Frequency Average 48.9 (with insul.)



system 104



materials used

1. 2" x 4" Wood Studs
2. 2" x 6" Wood Plates
3. 1/4" G-P Gypsum Sound Deadening Board
4. 1/2" G-P Firestop® Type XXX Wallboard or Firestop® Eternawall™
5. G-P Laminating Compound
6. 4d Finish Nails and 4d Common Nails
7. 5d Common Nails
8. 1 1/2" Fiberglass Batts (on BW-30ST for STC 52)

application details

1. Nail 2" x 4" wood studs staggered 8" o.c. on opposite sides of 2" x 6" wood plates.
2. Apply single layer of 1/4" G-P Gypsum Sound Deadening Board vertically to both sides, joints offset 8" on opposite sides, by nailing with 4d nails 12" o.c. at studs and plates.
3. Apply a single layer of 1/2" G-P Firestop® Type XXX or Firestop® Eternawall™ vertically to both sides over the 1/4" G-P Gypsum Sound Deadening Board by strip laminating 16" o.c. with G-P Laminating Compound. Vertical joints of 1/2" G-P Firestop® XXX or Firestop® Eternawall™ should fall between the wood studs on bottom plates with 5"d nails 6" o.c. each side. Face layer should be nailed at top and bottom plates with 5" nails 6" o.c.
4. Tape and finish in the approved manner.
5. On Test BW-30ST with STC-52, 1 1/2" insulation is applied in stud cavity with vapor barrier stapled to stud.

wood stud partition

STC 50

fire rating

1 hr combustible, test

UL No. U 312

(formerly UL 30—1 hr.)

partition properties

sound test data

Test No.: BW-35ST

Date: April 3, 1969

Conducted By: Geiger & Hamme, Inc.

Test Partition—Height: 9'

Width: 14' 1/2"

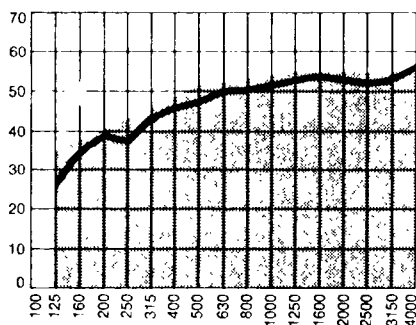
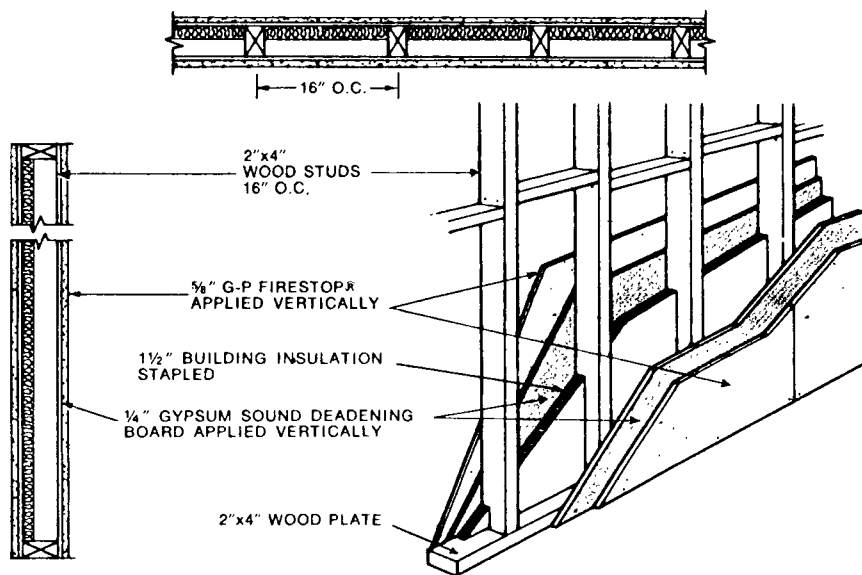
Thickness: 5 3/8"

Sound Transmission Class 50 db

9 Frequency Average 45 db

11 Frequency Average 46 db

system 106



materials used

1. 2" x 4" Wood Studs
2. 2" x 4" Wood Plates
3. 1 1/2" Fiberglass Batts
4. 1/4" G-P Gypsum Sound Deadening Board
5. 5/8" G-P Firestop® Type X Wallboard or Firestop® Eternawall™
6. G-P Laminating Compound
7. 4d Nails
8. 6d Nails

application details

1. Nail 2" x 4" wood studs 16" o.c. to 2" x 4" wood plates at floor and ceiling.
2. Staple 1 1/2" thick economy Fiberglass batts to studs.
3. Apply single layer of 1/4" G-P Gypsum Sound Deadening Board vertically to both sides and secure with 4d nails spaced 12" o.c. at studs and plates. Joints to be staggered on opposite sides.
4. Apply a single layer of 5/8" G-P Firestop® Type X wallboard or Firestop® Eternawall™ vertically to both sides over the 1/4" G-P Gypsum Sound Deadening Board by strip lamination 16" o.c. with G-P Laminating Compound. Compound is 2" inward from wallboard edge. Vertical joints of 5/8" should be offset 24" from 1/4" board joints. Nail top and bottom plates with 6d nails, 6" o.c.

wood stud double partition

STC 55

(with insulation)

STC 50

(no insulation)

fire rating

1 hr. combustible, est.

partition properties

sound test data

Test No.: BW-31ST (no insulation)

Test No.: BW-32ST (with insulation)

Date: April 15, 1968-April 22, 1968

Test Partition—

Height: 9' 0"

Width: 14' 1/2"

Thickness: 10 1/4"

Weight—

9.14 lbs./sq. ft. (no insulation)

9.29 lbs./sq. ft. (with insulation)

Sound Transmission Class 55 (with insul.)

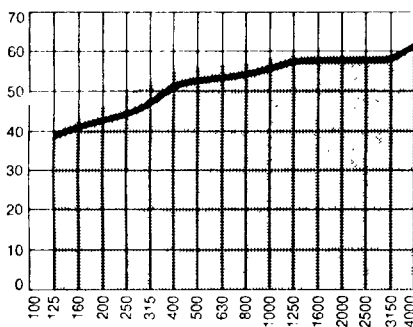
Sound Transmission Class 50 (no insul.)

9 Frequency Average 45.9 (no insul.)

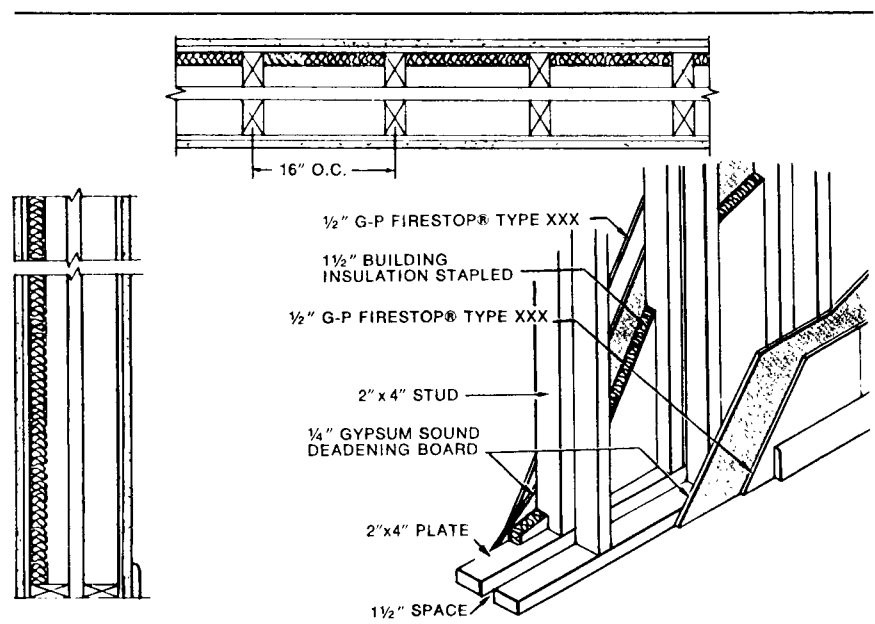
9 Frequency Average 50.5 (with insul.)

11 Frequency Average 47.6 (no insul.)

11 Frequency Average 51.9 (with insul.)



system 108



materials used

1. 2" x 4" Wood Studs
2. 2" x 4" Wood Plates
3. 1/4" G-P Gypsum Sound Deadening Board
4. 1/2" G-P Firestop® Type XXX Wallboard or Firestop® Eternawall™*
5. 4d Finishing Nails, 4d Nails
6. 5d Nails
7. G-P Laminating Compound
8. 1 1/2" Fiberglass Batts (on BW-32ST with insulation for STC-55)

application details

1. Nail separate sets of 2" x 4" wood studs 16" o.c. opposed to each other on 2" x 4" wood plates separated by a 1 1/2" spacing.
2. Apply a single layer of 1/4" G-P Gypsum Sound Deadening Board vertically, joints staggered on opposite sides. Apply to each side of double partition, using 4d nails in plates and studs, 12" o.c.
3. Apply a single layer of 1/2" G-P Firestop® Type XXX or Firestop® Eternawall™ vertically to both sides over the 1/4" G-P Gypsum Sound Deadening Board by strip laminating 16" o.c. with G-P Laminating Compound. Vertical joints of 1/2" G-P Firestop® Type XXX or Firestop® Eternawall™ should fall between the wood studs on each side. Face layer should be nailed at top and bottom plates with 5d nails 6" o.c.
4. For insulated partitions (STC 55) use 1 1/2" thick economy Fiberglass batts with vapor barrier stapled to stud.
5. Tape and finish in the approved manner.

SGP 0026079

metal stud partition

STC 45

fire rating

1 hr. incombustible

Test UL U 410

(formerly UL 32—1 hr.)

partition properties

sound test data

Test No.: BW-16FT

Dated: July 21-28, 1966

Conducted By: Geiger & Hamme, Inc.

Test Partition—Height: 9'

Width: 14' 1/2"

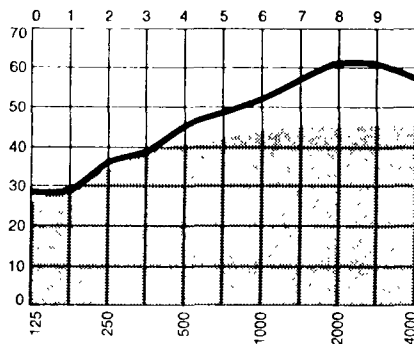
Thickness: 4"

Weight: 7 lbs./sq. ft.

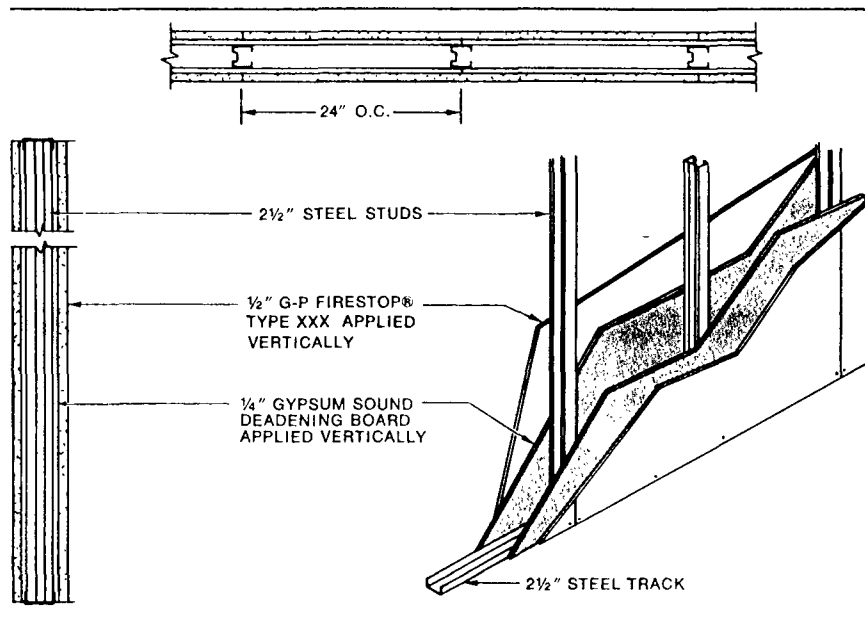
Sound Transmission Class 45 db

9 Frequency Average 44.3 db

11 Frequency Average 46.9 db



system 304



materials used

1. 2 1/2" Steel Studs
2. 2 1/2" Steel Channel
3. 1/4" G-P Gypsum Sound Deadening Board
4. 1" Type "S" Drywall Screws
5. 1/2" G-P Firestop® Type XXX Wallboard or Firestop® Eternawall™
6. 1 3/8" G-P Type "S" Drywall Screws

application details

1. Set 2 1/2" steel studs 24" o.c. into 2 1/2" floor and ceiling track
2. Apply 1/4" G-P Gypsum Sound Deadening Board vertically to both sides of partition and secure with 1" Type "S" drywall screws spaced 12" o.c. Stagger joints.
3. Apply face layer of 1/2" Firestop® Type XXX or 1/2" Firestop® Eternawall™ by strip lamination without fasteners except at the top and bottom track. Use 1 3/8" Type "S" screws spaced 8" o.c. at top and bottom track.

metal stud partition

STC 50

fire rating

1 hr. incombustible

Test UL U 410

(formerly 30—1 hr.)

partition properties

sound test data

Test No.: BW-17FT

Date: July 21-29, 1966

Conducted By: Geiger & Hamme, Inc.

Test Partition—Height: 9'

Width: 14' 1/2"

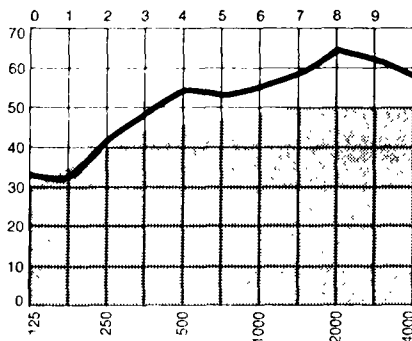
Thickness: 4"

Weight 7.12 lbs./sq. ft.

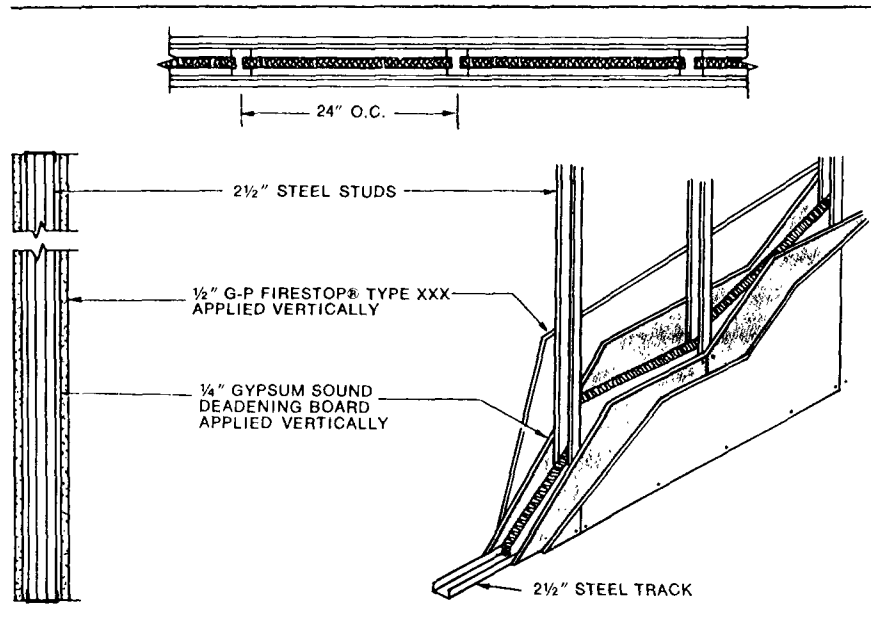
Sound Transmission Class 50 db

9 Frequency Average 48.7 db

11 Frequency Average 50.9 db



system 306



materials used

1. 2 1/2" Steel Studs
2. 2 1/2" Steel Channel
3. 2" Fiberglass Insulation
4. 1/4" G-P Gypsum Sound Deadening Board
5. 1" Type "S" Drywall Screws
6. 1/2" G-P Firestop® Type XXX Wallboard or Firestop® Eternawall™
7. 1 3/8" G-P Type "S" Drywall Screws

application details

1. Set 2 1/2" steel studs 24" o.c. into 2 1/2" floor and ceiling track
2. Attach 1/4" G-P Gypsum Sound Deadening Board vertically to one side and secure with 1" Type "S" drywall screws spaced 12" o.c. Stagger joints.
3. Insert 2" fiberglass friction fit insulation between the studs.
4. Secure 1/4" G-P Gypsum Sound Deadening Board to other side with 1" Type "S" drywall screws spaced 12" o.c. and stagger joints.
5. Apply face layer of 1/2" Firestop® Type XXX or 1/2" Firestop® Eternawall™ by strip lamination without fasteners except at the top and bottom track. Use 1 3/8" Type "S" screws spaced 8" o.c. at top and bottom track.

metal stud partition

STC 54

fire rating

1 hr. incombustible, est.

partition properties

sound test data

Test No.: BW-18FT

Dated: July 21-29, 1966

Conducted By: Geiger & Hamme, Inc.

Test Partition—Height: 9'

Width: 14' 1/2"

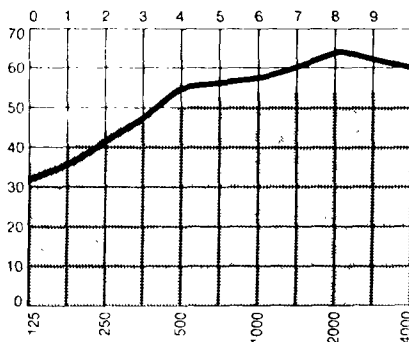
Thickness: 4 1/4"

Weight: 8.12 lbs./sq. ft.

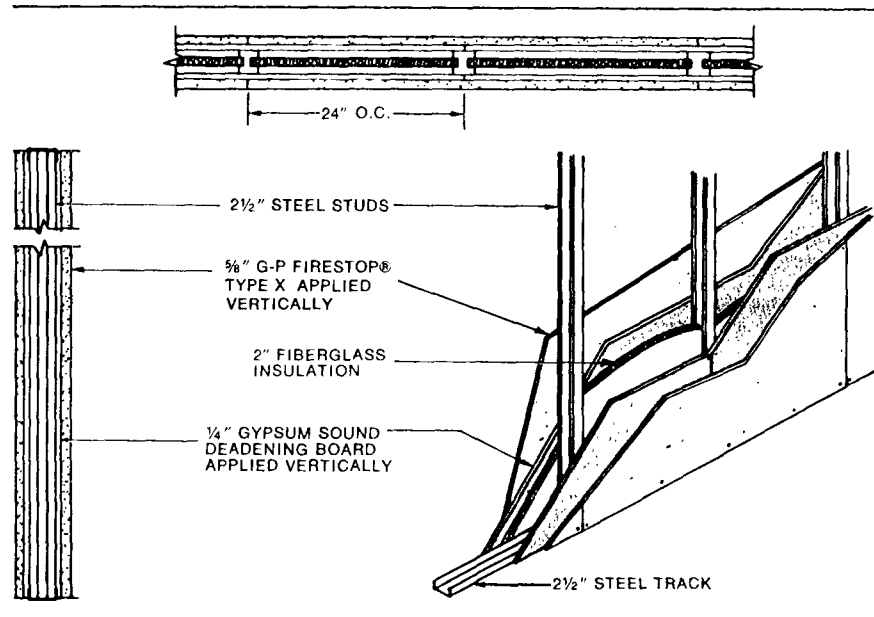
Sound Transmission Class 54 db

9 Frequency Average 50.2 db

11 Frequency Average 52.1 db



system 308



materials used

1. 2 1/2" Steel Studs
2. 2 1/2" Steel Channel
3. 2" Fiberglass Insulation
4. 1/4" G-P Gypsum Sound Deadening Board
5. 1" Type "S" Drywall Screws
6. 5/8" G-P Firestop® Type X Wallboard or Firestop® Eternawall™
7. 1 3/8" Type "S" Drywall Screws

application details

1. Set 2 1/2" steel studs spaced 24" o.c. into 2 1/2" floor and ceiling track.
2. Apply a single layer of 1/4" Gypsum Sound Deadening Board vertically to one side of the partition. Secure with 1" Type "S" drywall screws spaced 12" o.c. and stagger joints.
3. Insert 2" Fiberglass Insulation between the studs.
4. Attach a layer of 1/4" Gypsum Sound Deadening Board vertically to other side and secure with 1" Type "S" drywall screws spaced 12" o.c. Stagger joints.
5. Apply the layer of 5/8" Firestop® Type X or 5/8" G-P Firestop® Eternawall™ by strip lamination without fasteners, except at the top and bottom track. Use 1 3/8" Type "S" screws spaced 8" o.c. at top and bottom track.

metal stud double (chase wall) partition

STC 52

(with insulation)

STC 47

(no insulation)

fire rating

1 hr. combustibile, est.

partition properties

sound test data

Test No.: BW-33ST (no insulation)

Test No.: BW-34ST (with insulation)

Date: April 24, 1968

Conducted By: Geiger & Hamme, Inc.

Test Partition—

Height: 9' 0"

Width: 14' 1/2"

Thickness: 7 1/2"

Weight—

6.69 lbs./sq. ft. (no insulation)

6.84 lbs./sq. ft. (with insulation)

Sound Transmission Class 47 db

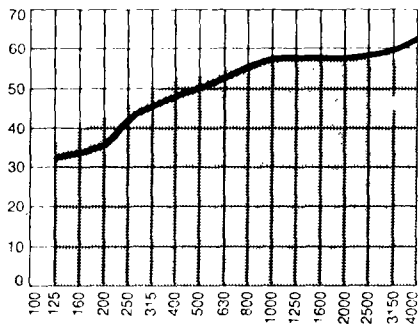
with insulation 52 db

9 Frequency Average 44.3 db (no insul.)

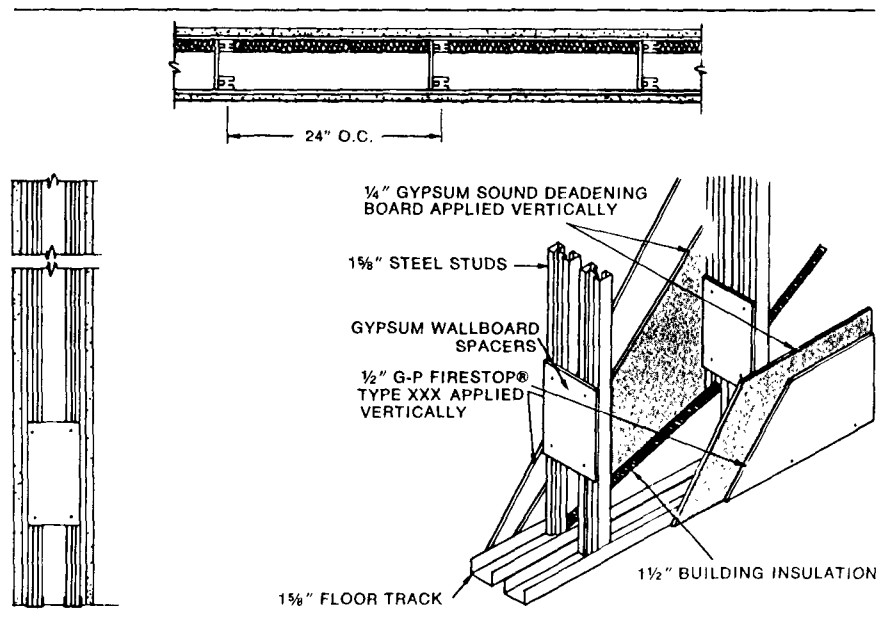
9 Frequency Average 48.2 db (with insul.)

11 Frequency Average 46.1 db (no insul.)

11 Frequency Average 49.8 db (with insul.)



system 326



materials used

1. 1 1/2" Steel Studs
2. 1 1/2" Floor and Ceiling Track
3. 1/4" G-P Gypsum Sound Deadening Board
4. 1/2" G-P Firestop® Type XXX Wallboard or Firestop® Eternawall™
5. 1 3/4" Type "S" Drywall Screws
6. 1 1/4" Type "S" Drywall Screws
7. 1/2" x 6" x 12" G-P Gypsum Board Spacers
8. 1 1/2" Fiberglass Batt (on BW-34ST for 52 STC)

application details

1. Set 1 1/2" steel studs 24" o.c. into opposed sets of floor and ceiling track separated 2 3/4" apart.
2. Cross-brace opposed studs with 1/2" x 6" x 12" pieces Gypsum Board, screw attached at quarterpoints with 1 1/4" Type "S" drywall screws, 3 per stud.
3. Apply 1/4" Gypsum Sound Deadening Board vertically both sides. Stagger joints. Use 1" Type "S" drywall screws 16" o.c.
4. Apply face layer of 1/2" Firestop® Type XXX or 1/2" Firestop® Eternawall™ using strip lamination without fasteners, except at the top and bottom track. Use 1 3/8" Type "S" screws spaced 8" o.c. at top and bottom track.

wood joist floor-ceiling assembly

STC 41
INR + 25
IIC 75

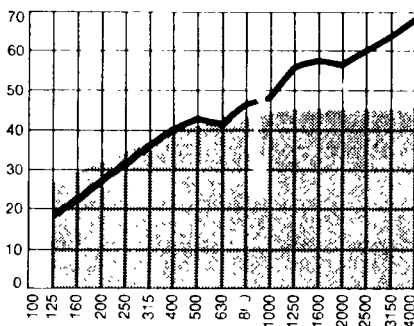
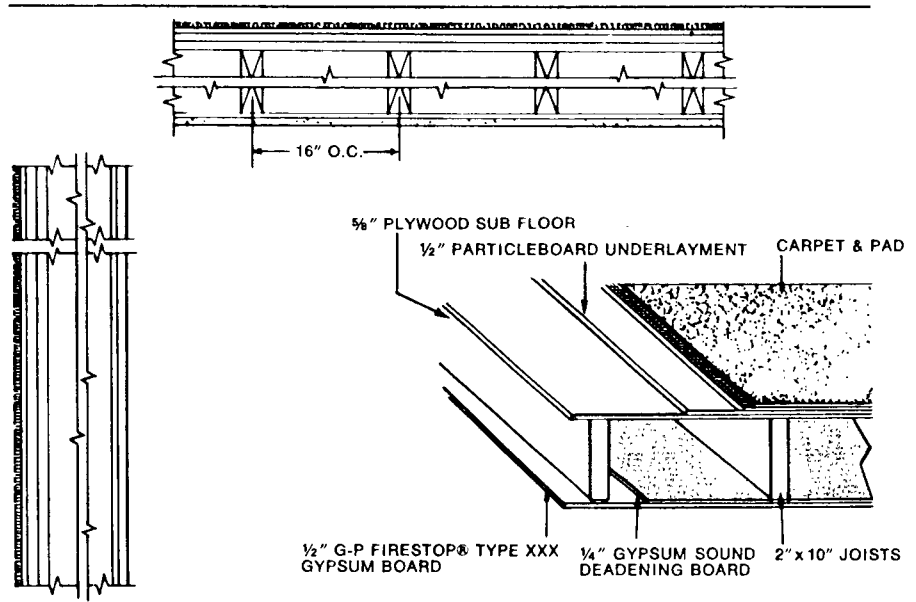
fire rating
1 hr. combustible, est.

partition properties

sound test data

Test No.: BW-2-MT
Date: April 25, 1968
Conducted By: Geiger & Hamme, Inc.
Test Sample: 12' x 16'
Impact Noise Rating: + 25
Sound Transmission Class 41 db

system 400



materials used

1. 2" x 10" Wood Joists
2. Carpet (20 oz.) per sq. yd.) and pad (48 oz. per sq. yd., sponge rubber)
3. 1/2" Particleboard Underlayment
4. 5/8" CD Grade Plywood Subfloor
5. 1/4" G-P Gypsum Sound Deadening Board
6. 1/2" G-P Firestop® Type XXX Wallboard
7. 4d Ring Shank Nails; 6d Common Nails; 8d Common Nails

application details

1. 2" x 10" wood joists are 16" o.c.
2. Nail 5/8" CD plywood across joists with 8d common nails 6" o.c. on edges and 10" o.c. in field.
3. Nail 1/2" Particleboard underlayment across joists; joists staggered from plywood joints using 4d ring shank nails 6" o.c. on edges and 8" o.c. in field.
4. Pad and carpet applied.
5. Apply 1/4" G-P Gypsum Sound Deadening Board parallel to joists, joints falling on joists, nailed 12" o.c. or along joists with 4d common nails.
6. Apply 1/2" G-P Firestop® Type XXX strip laminated to 1/4" board 16" o.c., joints offset from 1/4" board, and nailed with 6d common nails in each joist 12" o.c. along board at joints and in field.
7. Tape and finish in the approved manner.

3/2/08 11:00 AM Office

distribution centers

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COLORADO	COLORADO	COLORADO	COLORADO
CONNECTICUT	CONNECTICUT	CONNECTICUT	CONNECTICUT
DELAWARE	DELAWARE	DELAWARE	DELAWARE
FLORIDA	FLORIDA	FLORIDA	FLORIDA
GEORGIA	GEORGIA	GEORGIA	GEORGIA
HAWAII	HAWAII	HAWAII	HAWAII
ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS
INDIANA	INDIANA	INDIANA	INDIANA
IOWA	IOWA	IOWA	IOWA
KANSAS	KANSAS	KANSAS	KANSAS
KENTUCKY	KENTUCKY	KENTUCKY	KENTUCKY
LOUISIANA	LOUISIANA	LOUISIANA	LOUISIANA
MAINE	MAINE	MAINE	MAINE
MARYLAND	MARYLAND	MARYLAND	MARYLAND
MASSACHUSETTS	MASSACHUSETTS	MASSACHUSETTS	MASSACHUSETTS
MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN
MINNESOTA	MINNESOTA	MINNESOTA	MINNESOTA
MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI
MISSOURI	MISSOURI	MISSOURI	MISSOURI
MONTANA	MONTANA	MONTANA	MONTANA
NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA
NEVADA	NEVADA	NEVADA	NEVADA
NEW HAMPSHIRE	NEW HAMPSHIRE	NEW HAMPSHIRE	NEW HAMPSHIRE
NEW JERSEY	NEW JERSEY	NEW JERSEY	NEW JERSEY
NEW MEXICO	NEW MEXICO	NEW MEXICO	NEW MEXICO
NEW YORK	NEW YORK	NEW YORK	NEW YORK
NORTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA
NORTH DAKOTA	NORTH DAKOTA	NORTH DAKOTA	NORTH DAKOTA
OHIO	OHIO	OHIO	OHIO
OKLAHOMA	OKLAHOMA	OKLAHOMA	OKLAHOMA
OREGON	OREGON	OREGON	OREGON
PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA
RHODE ISLAND	RHODE ISLAND	RHODE ISLAND	RHODE ISLAND
SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA
SOUTH DAKOTA	SOUTH DAKOTA	SOUTH DAKOTA	SOUTH DAKOTA
TENNESSEE	TENNESSEE	TENNESSEE	TENNESSEE
TEXAS	TEXAS	TEXAS	TEXAS
UTAH	UTAH	UTAH	UTAH
VIRGINIA	VIRGINIA	VIRGINIA	VIRGINIA
WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON
WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA
WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN
WYOMING	WYOMING	WYOMING	WYOMING

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