

METAL BUILDING MATERIALS

BERGER



Metal Building Materials *for*

Partitions, Floors, Roofs,
Sidewalk Lights, *and*
Concrete Reinforcement

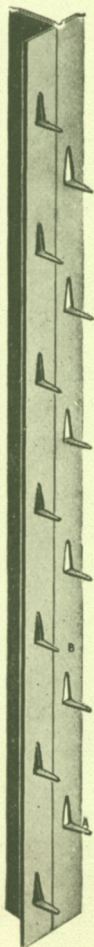
Also Steel Factory Equipment



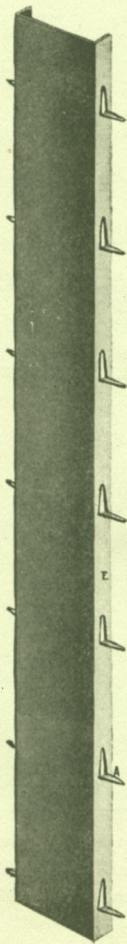
The Berger Manufacturing Co.
Works and General Offices, Canton, Ohio

For prompt attention write nearest branch office
Branch Offices: New York, Philadelphia,
Boston, Minneapolis, St. Louis, San
Francisco, Chicago, Cincinnati

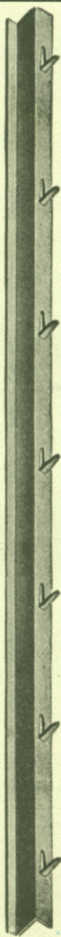
THE BERGER MANUFACTURING CO.



*Tee Stud
for Solid
Partitions*



*Channel Stud
for Hollow
Partitions*



*Z-Stud
for Walls
also Ceiling
Furring*



*U-Stud
for Walls
also Ceiling
Furring*

SOME SHAPES OF BERGER PRONG LOCK STUDS

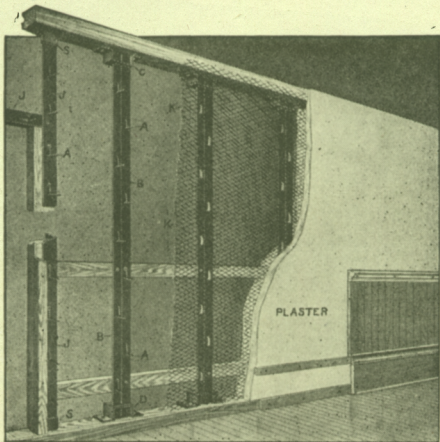
Berger's Prong Lock System of Steel Studs

(Wireless)

(Patented)

For use with Expanded Metal Lath. For Solid and Hollow Partitions, Wall and Ceiling Furring.

An extremely simple system. The prongs pass through the meshes of the lath and are clinched



A Prong Lock Solid Partition

over it with a hammer, securely holding it and forming a rigid, even surface to plaster on. No wiring required. Saves time, labor and money, and the lath can't get away.

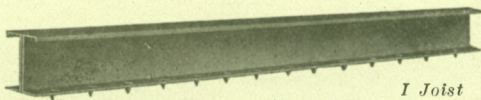
Prong Lock Studs and Furring are standardized for various classes of construction and manufactured to exact lengths where specifications are given. Made in the various styles required for solid or hollow partitions, wall or ceiling furring. Easily and quickly erected. Light for transportation. Save floor space; save in freight.

Catalog 542 shows application to various forms of construction. Ask for it.

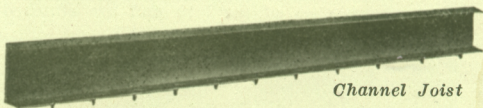
Socket Strips provide secure connection for studs to floor and ceiling, insure perfect alignment for partition and correct spacing of Studs.

THE BERGER MANUFACTURING CO.

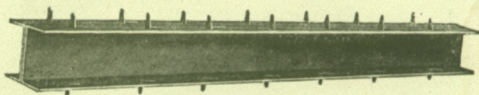
Metal Lumber Shapes



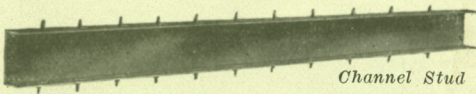
I Joist



Channel Joist



I Stud



Channel Stud



Wall Ribbon

The above are standard shapes made in lengths up to and including 20 feet. The depths of the webs vary in multiples of $\frac{1}{2}$ inch and weights from 12 to 18 gauge inclusive.

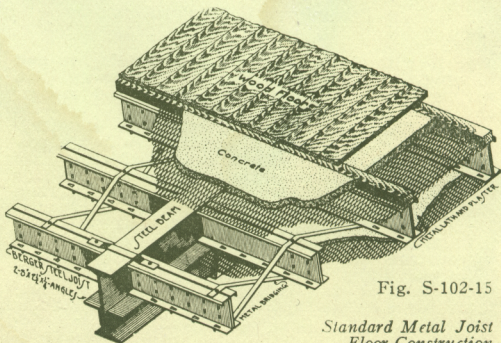


Fig. S-102-15

*Standard Metal Joist
Floor Construction*

Berger's *Metal Lumber*

Consists of pressed steel sections similar in shape to the rolled members, such as I-Joists, Channels, Angles, etc.



Metal Joists and Studs used in Construction of Floors and Partitions of Bailey Apartments, Kansas City, Missouri.

The shapes are such as will develop maximum strength at a minimum weight. The flanges are provided with prongs by means of which metal lath is attached to the members.

Metal Joists are designed to take the place of wood joists. They are used to advantage with any class or design of exterior wall construction.

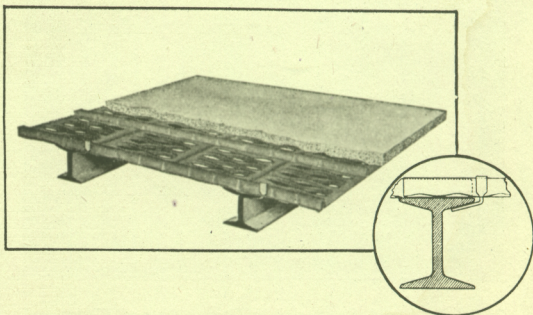
Metal Lumber is easily and quickly erected, members being cut to exact length at the factory and shipped in accordance with erection diagrams which we furnish.

Metal Lumber catalog gives full and complete information relative to the use of this material.

Berger's RIB-TRUS (Patented) New Design Reinforcing and Furring Plates

For Roofs, Floors, Walls, Partitions, Suspended Ceilings, Stucco Houses, etc.

RIB-TRUS has greater tensile strength than



any similar plate on the market. It serves both as a reinforcement and centering, saving time, labor and material—an important point for you to consider.

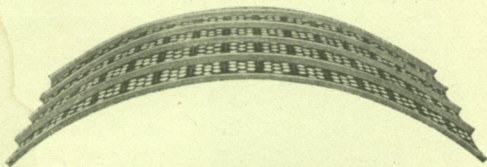
The ribs act as beams and stiffen the plate while the concrete is being applied.

Special clips are furnished for fastening the RIB-TRUS Plates to beams, purlins, etc.

Standard length of plates: 4, 5, 6, 7, 8, 9, 10 and 12 feet. Standard widths 18 and 24 inches.

Uses of RIB-TRUS Reinforcing and Furring Plate

RIB-TRUS effects a great saving in material owing to the extremely small amount of drip that takes place when concrete is applied.



Curved RIB-TRUS Plate

Curved RIB-TRUS is used for arched floor construction and all classes of circular concrete work

This is due to the effective design of the interlocking loops which retain practically all the cement.

RIB-TRUS is a safeguard against faulty work, notwithstanding the fact that a job can be completed with this plate in much less time than is required with any other reinforcing plate.

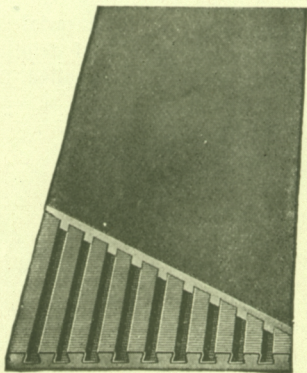
When RIB-TRUS Plates are used for stucco, the ribs lie directly against the sheathing or studs, thus doing away with the necessity of special furring strips.

The method by which RIB-TRUS Plates are applied is very simple. The extra wide sheets make rapid work.

Place a sample order and test it—you will find that RIB-TRUS will make good on every claim.

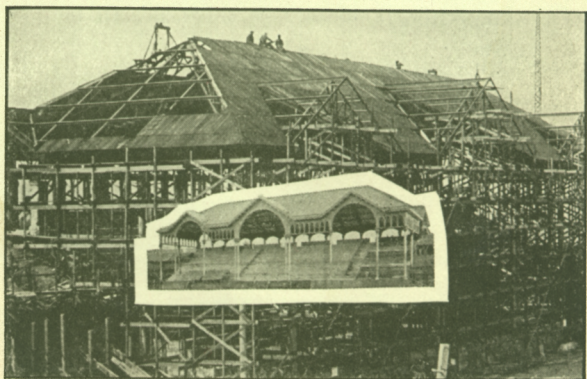
Send for catalog and full particulars and details.

Berger's *Ferro-Lithic* Dove-tailed,
Cross-Ribbed Keystone Formation
Steel Plates



Our patented Interlocking System of Concrete Reinforcement. A permanent roof for permanent buildings.

Used also for siding, stairways, floors, etc. Also curved for segmental arched floors, for bridges, warehouses, factories, etc.

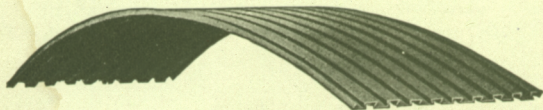


Largest Athletic Arena in the World

Laying *Ferro-Lithic* Plates and the completed building, Syracuse University Grand Stand, Syracuse, N. Y. Revels & Hallenbeck, Architects, Syracuse, N. Y. Consolidated Engineering Co., Contractors, Syracuse, N. Y., and New York, N. Y.

Berger's *Ferro-Lithic* Interlocking System of Concrete Reinforcement

No centering required. These plates form both permanent centering and reinforcing, are quickly laid into place, and easily concreted



on top and plastered on the under side if desired.

The oblique portions of the dove-tails serve as ample reinforcing, being greatly assisted by the mechanical bond secured by the heavy cross ribs.

When completed, the *Ferro-Lithic* roof is the lightest type of reinforced concrete roof on the market—a fact of considerable value in designing the roof trusses.

Inflammable roofs are a constant source of fire communication, but our *Ferro-Lithic* roof is a fire-retardant and protection. They may be laid and used without concreting during stormy or wintry weather, and concreted at a more favorable season. Ask for catalog No. 580.

Berger's *Multiplex
Steel Plate*
Heavy Service Floors

For Concrete Floors of Bridges, Warehouses, Sidewalks, etc.

Multiplex Steel Plate first introduced to builders the "Berger Idea" of reinforced concrete with the

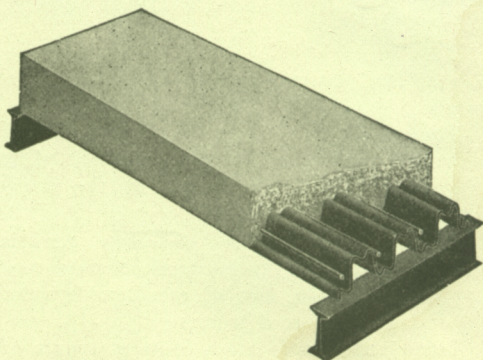


Fig. A

centering as a permanent part and parcel of the completed work.

Multiplex Steel Plate is placed upon the top or bottom flanges of "I" beams, upon concrete, stone or wood, and in fact on any bearing where the span does not exceed ten feet center to center.

The *Multiplex Steel Plate* itself is sufficiently strong and stiff to support the weight of workmen and material while concreting, and thus the construction is very safe and easy.

Because of the simplicity of design and ease of application, requiring as it does only common labor, the work is not held up for carpenters, rod setters, etc., and the construction can proceed with the assurance that *Multiplex Steel Plate* cannot be improperly placed, and is therefore "fool-proof."

The foregoing cut (Fig. A) shows the most efficient method of using *Multiplex Steel Plate*. First the plates themselves offer great strength and stiffness before concrete is applied, and second, the rods which are very easily laid when installing the concrete, provide a double reinforcement and a precautionary factor of the construction.

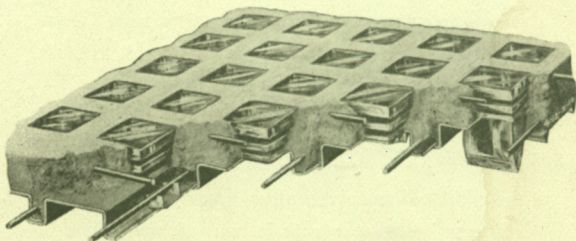
A very popular use of *Multiplex Steel Plate* is for reflooring old bridges where low dead load, great strength and economy of construction are most important items.

Our complete catalog gives details of construction, tables of safe loads, etc., together with views of work installed. If interested ask for Catalog 580.

BERGER'S *Raydiant*

Sidewalk Lights

An ideal method of daylighting basements and the valuable space under sidewalks which would otherwise be practically useless.




The ^{BERGER'S}*Raydiant* System is a strong, simple and effective system of Sidewalk, Vault and Floor Lights, essentially a double reinforced concrete construction which is quickly and easily installed, and which provides the maximum light area.

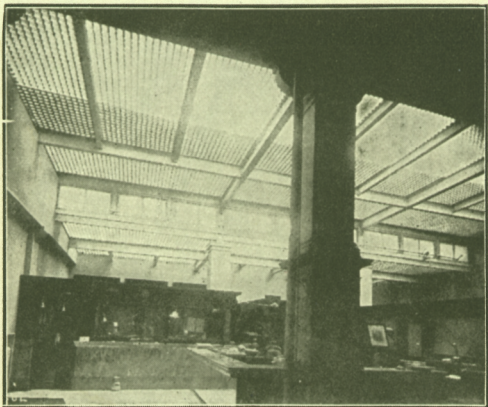
By the ^{BERGER'S}*Raydiant* method daylighting, the cheapest illuminant known, is transmitted into the dark spaces of the basement, changing them into bright, cheerful places, valuable from the investment standpoint.

The ^{BERGER'S}*Raydiant* catalog has information and illustrations that will interest you. It is worth the while of anyone interested in Sidewalk Lights.

A postal card will bring it to you.

Tanex Malleable Coated Glass


In the ^{BERGER'S} *Raydiant* System is used the celebrated  Malleable Coated Glass,—the quality of material and the process of manu-



Berger Raydiant Lights in Accounting Room below Court, First National Bank, Birmingham, Ala.

facture of which produces permanent brilliancy, toughness and resiliency, so important for durability and wear.

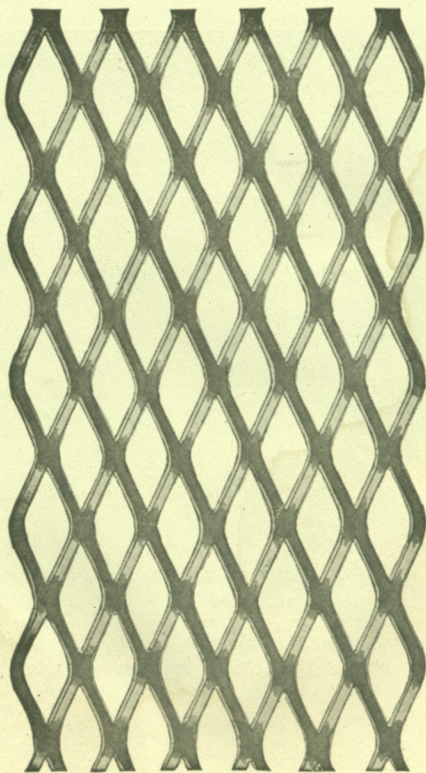
Each glass is malleable coated with a flexible compound, which feature provides the means of expansion and contraction, as well as absolute cohesion between the glass and concrete.

 Glass is made exclusively for Vault and Sidewalk Light work.

THE BERGER MANUFACTURING CO.

Berger's B. B. Expanded Metal Lath

Made from Steel or



THE BERGER MANUFACTURING CO.

New process of manufacture. Small neat mesh formed by the natural bend of the strands in expanding.

Not pickled. Made from unpickled sheets, rolled in our own mills and specially prepared, toughening the product and increasing durability.

The narrow strands allow the mortar to completely imbed the lath on both sides, the clinch bonding on the back.

No sharp points or edges to cut the hands. Sheets may be easily broken up into small members for cornices, coves, etc.

Our Galvanized Lath is galvanized after expanding, completely coating the edges of the strands as well as the surface of the sheet.

We can furnish Lath cut from galvanized sheets also.

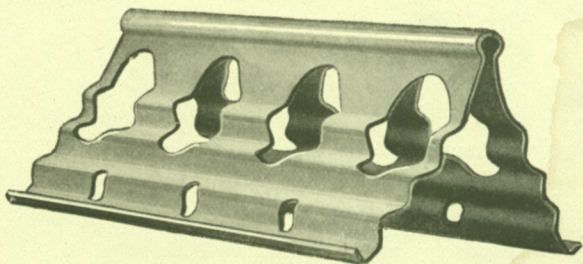
Specify gauge desired and whether plain, painted or galvanized. Prices on specified quantities named on application.

Sheets in Bundle, 9		Yards per Bundle, 12	
Gauges	Weight per bdle.	Weight per yd.	Yards in 100 lbs.
No. 27	27½	2½	43
No. 26	30	2½	40
No. 3 Lb. Special.	36	3	34
No. 24	40½	3.4	29
Government Specification	52	4.4	23

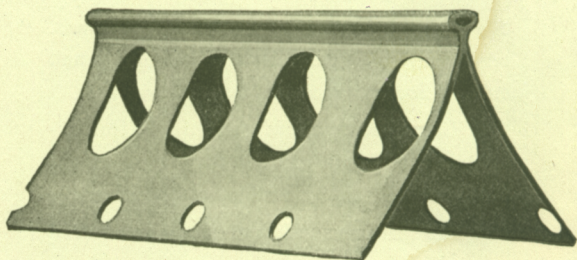
Sheets 18 in. by 96 in.

THE BERGER MANUFACTURING CO.

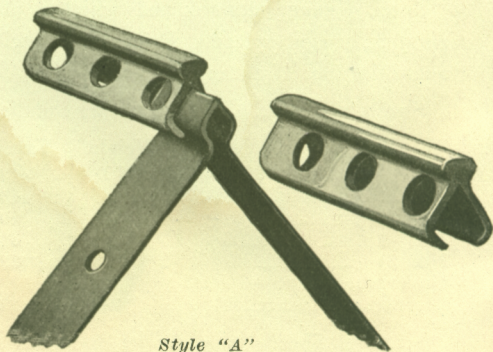
Berger's Corner Beads—*Cuts Full Size*



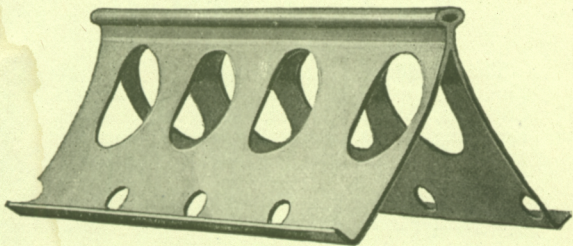
Style "F" (Ribbed Point)



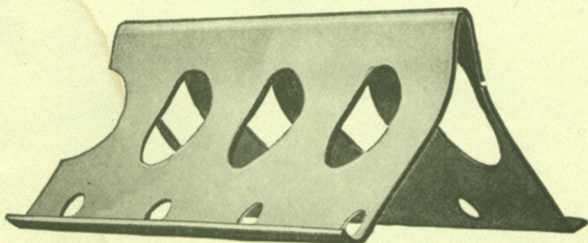
Style "E"



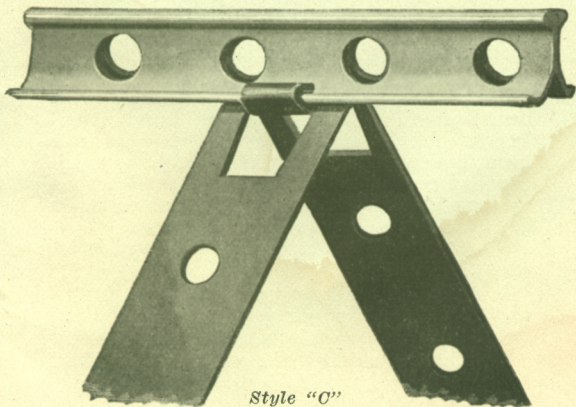
Style "A"



Style "D" (Ribbed Point)



Style "H" (Feather Edge Point)

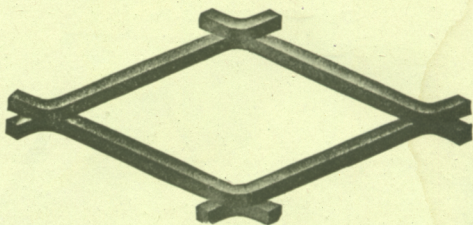


Style "O"

Berger's Expanded Metal

The Standard Reinforcement for Concrete Floors, Roofs, Bridges, Culverts, Sewers, Conduits, Water Mains, Reservoirs, Dams, Retaining Walls, Sidewalks, and in fact any work where uniform distribution of steel is desired.

Weight for weight, EXPANDED METAL has greater reinforcing value than any other



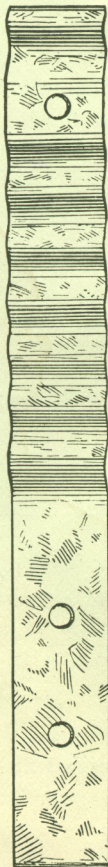
material. It has been found to be efficient in reinforced concrete structures of so many and such varying types that but brief mention need be made of the advantages that have been demonstrated in its long continued and successful use.

Diagonal strands, forming diamond shaped mesh, provide the best possible stress distribution. All the steel is of value as reinforcement, and none of it is used merely to space the load carrying members. Any tendency on the part of the mesh to elongate under stress and to close up on the sides subjects the concrete to compression, and is effectually resisted.

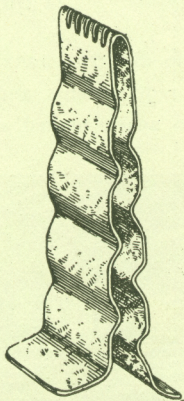
We are prepared to name attractive prices, and to make quick deliveries of stock sizes. Other sizes made on special order.

Weights, Sectional Areas, and Standard Sizes of Sheets and Tables of safe loads furnished on application.

Berger's Wall Ties and Wall Plugs



*Sure Bond
Dead Grip*



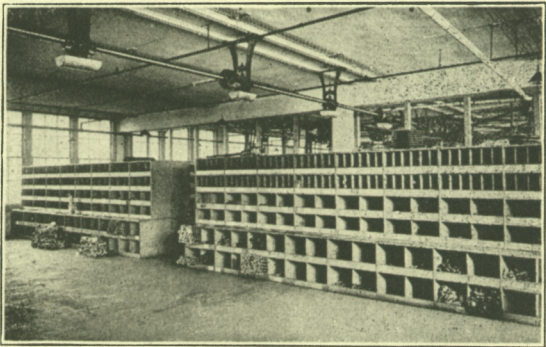
End View Wall Plug

Double Crimp Wall Ties

Standard, $\frac{5}{8}$ in. x 7 in.
Veneer $\frac{5}{8}$ in. x $5\frac{1}{2}$ in.
The strongest, most reliable tie made.

Berger's Sectional Steel Stockroom Equipment

The different units are adjustable to meet any requirements and the assemblies can be taken apart, moved and reassembled without



depreciation, by merely removing a few bolts.

In order that the stock may be properly indexed, card holders are provided which reveal the location of anything desired at a glance.

In view of the much longer life and the added convenience of Berger's Sectional Steel Equipment, isn't it policy to look further into the matter?

Our steel stockroom equipment catalog upon request.

The Berger Mfg. Co. of Mass.

160-166 Broadway Extension

SO. BOSTON, MASS.