DECEMBER 1943

NEWS 108	43
DODGE CHICAGO PLANT The world's largest airplane engine plant is completed	49
and now getting ready for full production. At its peak, Albert Kahn's last and biggest factory will have a weekly horsepower output equal to that of Boulder Dam.	
PEPSI-COLA SERVICEMEN'S CENTER A derelict San Francisco bank building becomes the latest in this excellent series of recreation buildings designed for members of United Nations' forces.	59
MARIN CITY, CALIFORNIA	67
A complete new war community, built and occupied in less than five months, which serves a newly constructed shipyard.	
PLANNING WITH YOU	75
A new department devoted to readers' reports on their distribution of THE FORUM'S postwar planning booklet.	
HORSE SENSE PLANNING, II Better shopping conditions and parking by private action. The second in a series of three articles.	77
PREFABRICATION	83
Ratio Structures: a new construction system developed by Paul Lester Wiener.	
HOUSES	89
A striking modern design by Philip Johnson an Arizona adobe a small house from Knoxville, Tenn.	
FORUM OF EVENTS	2
An exhibition of ceramic sculpture by Lily S. Saarinen Postwar design of the month Mexican real estate development.	ot et fi ecide po tiris non
PRODUCTS AND PRACTICE	O miras
Inside bathrooms—ventilating and planning angles new method for prestressing reinforced concrete new products technical literature.	ngorega Mari
BOOKS	20
Horace Walpole, Gardenist.	a kwaita
LETTERS	34

NEXT MONTH: South Sea architecture . . . Washington housing . . . Planning the Postwar House . . . Nursery school . . . House portfolio . . . Prefabrication . . . Horse Sense Planning, III.

Since January 1, 1943, TIME, LIFE, FORTUNE and THE ARCHITECTURAL FORUM have been cooperating with the War Production Board on conservation of paper. During the year 1943, these four Time Inc. publications will have used 14,600 fewer tons of paper than in 1942. In view of the resulting shortage of copies, please share your copy of THE FORUM with friends.

In Military Service: Robert W. Chasteney, Jr. William J. Conway Robert Hanford Joseph C. Hazen, Jr. George B. Hotchkiss, Jr. S. Chapin Lawson Amnon Rubinstein A. Banks Wanamaker

Managing Editors, George Nelson, Henry Wright; Art Director, Paul Grotz: Assistants, Louise Cooper, Ruth Feierabend, Mary Sanders, Dorothy Oshlag, Richard E. Saunders, Madelaine Thatcher. Publisher, Howard Myers; General Manager, Ruth Goodhue; Advertising Manager, George P. Shutt.

THE ARCHITECTURAL FORUM is published by Time Inc., Maurice T. Moore, Chairman; Roy E. Larsen, President; Charles L. Stillman, Treasurer; David W. Brumbaugh, Secretary. Publication and Subscription Office, Orange, Conn. Subscription may also be sent to 330 East 22nd Street, Chicago 16, Ill. Executive, Editorial and Advertising Offices, 19 West 44th Street, New York 18, N. Y. Yearly subscription payable in advance to 19 West 44th Street, New York 18, N. Y. Yearly subscription payable in advance U. S. and Possessions, Canada, Mexico, South America, 34.00. Elsewhere \$6.00. Single issues, including Reference Numbers, \$1.00. All copies mailed flat. Copyright under International Copyright Convention. All rights reserved under the Pan American Copyright Convention. Entered as second Class Matter at the Post Office at Orange, Conn., under the Act of March 3, 1879. Copyright, 1943, by Time Inc.

VOLUME 70-NUMBER SIX

SPECIFICATION AND BUYING INDEX

The advertising pages of The Architectural Forum are the recognized market place for architects and all others engaged in building. A house or any building could be built completely of products advertised in The Forum. While it is not possible to certify building products, it is possible to open these pages only to those manufacturers whose reputation merits confidence. This The Forum does.

Abesto Mfg. Co.	104
Adam, Frank Electric Co.	151
Aerofin Corporation	112
Airtemp	105
(Division of Chrysler Corporation) Alberene Stone Corporation of Virginia	100
Allied Classical & Des Comparison of Virginia	105
Allied Chemical & Dye Corporation(The Barrett Division)	199
Aluminum Company of America	11
American Air Filter Co. Inc.	191
American Air Filter Co., Inc	112
(Tallarest Cantaifranal District	
American Rolling Mill Company, The	125
Andersen Corporation	100
Arco Company, The	106
Armstrong Cork Company	102
Associated General Contractors of America, Inc., The	37
Bakelite Corporation 22,	23
Rarrett Division The	150
(Allied Chemical & Dve Corporation)	10)
Barrett Division, The	156
(Milwaukee Stamping Company)	100
(Milwaukee Stamping Company) Bigelow-Sanford Carpet Co., Inc.	150
Bituminous Coal Institute	141
Borden Company, The	40
(Casein Division)	
(Casein Division) Briggs Mfg. Company	139
Bruce Co F. L.	122
B & T Metals Company, The	166
Burnham Boiler Corporation	114
Byers, A. M. Company	9
Cabot, Samuel, Inc.	
Cardox Corporation	13
Carey, Philip Company, The	149
Carr, Adams & Collier Company, Inc.	154
Case, W. A. & Son Mfg. Co.	158
Casein Company of America	
(Division of The Borden Company)	
(Division of The Borden Company) Celanese Celluloid CorporationCover	III
Celanese Celluloid CorporationCover Celotex Corporation, TheCover	r II
Celanese Celluloid Corporation	r 11 105
Celanese Celluloid Corporation	r 11 105
Celanese Celluloid Corporation	r 11 105 155
Celanese Celluloid CorporationCover Celotex Corporation, TheCover	r 11 105 155
Celanese Celluloid Corporation	105 155 101 143
Celanese Celluloid Corporation	105 105 155 101 143 169
Celanese Celluloid Corporation	105 155 101 143 169 164
Celanese Celluloid Corporation	155 101 143 169 164 30
Celanese Celluloid Corporation	155 101 143 169 164 30 158
Celanese Celluloid Corporation	155 101 143 169 164 30 158
Celanese Celluloid Corporation	155 101 143 169 164 30 158 117
Celanese Celluloid Corporation	155 101 143 169 164 30 158 117 17
Celanese Celluloid Corporation	155 101 143 169 164 30 158 117 17 24 31
Celanese Celluloid Corporation	155 101 143 169 164 30 158 117 17 24 31 5 123
Celanese Celluloid Corporation	155 101 143 169 164 30 158 117 17 24 31 5 123 111
Celanese Celluloid Corporation	1155 101 143 169 164 30 158 117 17 24 31 5 123 111 173
Celanese Celluloid Corporation	115 155 101 143 169 164 30 158 117 17 24 31 5 123 111 173 154
Celanese Celluloid Corporation	115 155 101 143 169 164 30 158 117 17 24 31 5 123 111 173 154
Celanese Celluloid Corporation	155 101 143 169 164 30 158 117 17 24 31 123 111 173 154 161
Celanese Celluloid Corporation	155 155 101 143 169 164 30 158 117 17 24 31 5 123 111 173 154 161 18
Celanese Celluloid Corporation	155 101 143 169 164 30 158 117 17 24 31 123 111 173 154 161
Celanese Celluloid Corporation	155 101 143 169 164 30 158 117 17 24 31 5 123 111 173 154 161 18
Celanese Celluloid Corporation	1105 155 101 143 169 164 30 158 117 24 31 5 123 111 173 154 161 18
Celanese Celluloid Corporation	11 105 155 101 143 169 164 30 158 117 17 24 31 5 123 111 173 154 161 18 130 125 176
Celanese Celluloid Corporation	11 105 155 101 143 169 164 30 158 117 17 24 31 5 123 111 173 154 161 18 130 125 176
Celanese Celluloid Corporation	11 105 155 101 143 169 164 30 158 117 17 24 31 5 123 111 173 154 161 18 130 125 176 152 119
Celanese Celluloid Corporation	11 105 155 101 143 169 164 30 158 117 17 24 31 5 123 111 173 154 161 18 130 125 176 152 119 115
Celanese Celluloid Corporation	11 105 155 101 143 169 164 30 158 117 24 31 5 123 111 173 154 161 18 130 125 176 152 119 115 115 115 115 115 115 116 117 117 117 117 117 117 117 117 117
Celanese Celluloid Corporation	1105 155 101 143 169 30 158 117 17 24 31 11 173 154 161 18 130 125 176 152 119 152 119 152 119 152 176 152 119 152 119 152 164 176 176 176 176 176 176 176 176 176 176
Celanese Celluloid Corporation	105 155 101 143 169 164 30 158 117 17 24 31 11 173 154 161 18 130 125 176 152 119 115 128 119 129 119 119 128 119 129 129 129 129 129 129 129 129 129
Celanese Celluloid Corporation	155 101 143 169 164 30 158 117 17 24 31 5 123 111 173 154 161 18 130 125 176 152 119 115 128 177 179 115 129 115 119 115 119 119 119 119 119 119 11
Celanese Celluloid Corporation	155 101 143 169 164 30 158 117 17 24 31 15 123 111 173 154 161 18 130 125 176 152 119 115 128 177 26 107 100 145
Celanese Celluloid Corporation	105 155 101 143 169 164 30 158 117 17 24 31 15 123 111 173 154 161 18 130 125 176 179 115 128 179 115 128 179 115 115 117 117 117 117 118 119 119 119 119 119 119 119 119 119
Celanese Celluloid Corporation	155 101 143 169 164 30 158 117 17 24 31 5 123 111 18 130 125 176 152 119 115 128 177 100 145 127 119 119 119 119 119 119 119 119 119 11

McCall's Opp. 16		
Marsh Wall Products, Inc.	Liquidometer Corp., The	164
McCall's Opp. 16	Marsh Wall Products Inc	172
Mesker Bros. 44 Michaels Art Bronze Co., Inc., The 144 Mikuaukee Stamping Company 156 (Bathe-Rite Division) 166 Modine Manufacturing Company 12 Monsanto Chemical Company, Plastics Division 16 Mueller Brass Co. opp. 11 Mueller Brass Co. opp. 11 Mullins Mig. Corp. 157 (Youngstown Pressed Steel Division) 15 National Electrical Manufacturers Association 14 National Gypsum Company 44 Nelson, Herman Co. 38, 33 New Castle Products 166 Overhead Door Corporation Cover Iv Palace Corporation 2 Parsons Company, The 15 (Affiliated with Traverse Bay Mfg. Co.) 16 Peelle Company, The 16 (Affiliate of Richmond Fireproof Door Co.) 14 Pemberton Lumber and Millwork Corp. 144 Pittsburgh Plate Glass Company 2 Republic Crossoting Company 12 Republic Steel Corporation 12	McCall'sopp.	16
Michaels Art Bronze Co., Inc., The Milwaukee Stamping Company (Bathe-Rite Division) Minneapolis-Honeywell Regulator Co. 166 Modine Manufacturing Company 129 Monsanto Chemical Company, Plastics Division 129 Museller Brass Co. 09p. 117 Mullins Mfg. Corp. 157 (Youngstown Pressed Steel Division) National Electrical Manufacturers Association 146 National Gypsum Company 44 National Gypsum Company 44 Nelson, Herman Co. 338, 33 New Castle Products 166 Overhead Door Corporation 129 Parsons Company, The 157 (Affiliated with Traverse Bay Mfg. Co.) Peelle Company, The 157 (Affiliated with Traverse Bay Mfg. Co.) Peelle Company, The 157 (Affiliated with Traverse Bay Mfg. Co.) Pemberton Lumber and Millwork Corp. 146 Pittsburgh Plate Glass Company 27 Nepublic Creosoting Company 116 Revere Copper and Brass, Incorporated 14, 15 Revere Copper and Brass, Incorporated 14, 15 Revere Copper and Brass, Incorporated 14, 15 Revere Copper and Brass, Incorporated 16 Richmond Fireproof Door Company 16 Revere Copper and Brass, Incorporated 17 Revere Copper and Brass, Incorporated 18 Richmond Fireproof Door Company 18 Revere Copper and Brass, Incorporated 19 Revere Copper and Brass, Incorporation 19 Revere Copper and Brass, In	Mesker Bros	4
Bathe-Rite Division Minneapolis-Honeywell Regulator Co. 166 Modine Manufacturing Company 122 Monsanto Chemical Company, Plastics Division 167 Mullirs Brass Co. 0pp. 112 Mullins Mfg. Corp. 157 Wallins Mfg. Corp. 158 Wallins Mfg. Corp. 159 Wallins Mfg. Corp. 159 Wallins Mfg. Corp. 150 Walting Mfg. Corp. 1	Michaels Art Bronze Co., Inc., The	146
Minneapolis-Honeywell Regulator Co. 166	(Ratho Rito Division)	
Monsanto Chemical Company, Plastics Division 16	Minneapolis-Honeywell Regulator Co	165
Mullins Mfg. Corp. (Youngstown Pressed Steel Division) 15	Monsanto Chemical Company, Plastics Division	16
National Electrical Manufacturers Association 148	Mulling Mfg. Corp.	112
National Gypsum Company	(Youngstown Pressed Steel Division)	
Nelson, Herman Co. 33, 35 New Castle Products 166 Overhead Door Corporation 129 Parsons Company, The 155 (Affiliated with Traverse Bay Mfg. Co.) Peelle Company, The (24 (Affiliate of Richmond Fireproof Door Co.) Pemberton Lumber and Millwork Corp. 144 Pittsburgh Plate Glass Company 27 Republic Creosoting Company 116 Republic Steel Corporation 22 Revere Copper and Brass, Incorporated 14, 18 Richmond Fireproof Door Company (Affiliated with The Peelle Company) Rowe Manufacturing Co. 99 Samson Cordage Works 166 Solan Valve Company 127 Solvay Sales Corporation 116 Sonneborn Sons Inc., L. 177 Square D Company 21 Stanley Work, The 166 Stran-Steel Division 18 (Great Lakes Steel Corporation 18 (Great Lakes Steel Corporation 18 Sylvania Electric Products Institute 16 Superior Steel Corporation 15 Sylvania Electric Products Inc. 14 Taco Heaters, Inc. 14 Taco Heaters, Inc. 14 Timber Engineering Company 13 Timber Engineering Company 13 Timber Structures, Inc. 14 Time 16 Time 16 Time Company, The 16 Trane Company, The 16 Van Range, John, Co., The 10 Waterfilm Boilers, Inc. 15 Waterfilm Boilers, Inc. 16 Waterfilm Boil	National Electrical Manufacturers Association	148
Overhead Door Corporation Cover IV Palace Corporation 122 Parsons Company, The (Affiliated with Traverse Bay Mfg. Co.) 155 (Affiliate of Richmond Fireproof Door Co.) 156 (Affiliate of Richmond Fireproof Door Co.) 157 (Affiliate of Richmond Fireproof Door Co.) 144 157 144 158 144 158 <td< td=""><td>Nelson, Herman Co38</td><td>, 39</td></td<>	Nelson, Herman Co38	, 39
Palace Corporation		
Parsons Company, The		
Peelle Company, The	Parsons Company, The	152
Republic Creosoting Company	(Affiliated with Traverse Bay Mtg. Co.) Peelle Company. The	:
Republic Creosoting Company	(Affiliate of Richmond Fireproof Door Co.)	141
Republic Creosoting Company	Pittsburgh Plate Glass Company	27
Revere Copper and Brass, Incorporated 14, 15	Republic Creosoting Company	110
Richmond Fireproof Door Company	Revere Copper and Brass, Incorporated	. 13
Rowe Manufacturing Co. 99 Samson Cordage Works 166 Sloan Valve Company 127 Solvay Sales Corporation 116 Sonneborn Sons Inc., L. 177 Square D Company 217 Square D Company 218 Stanley Work, The 166 Stran-Steel Division 186 (Great Lakes Steel Corporation) 187 Structural Clay Products Institute 166 Superior Steel Corporation 157 Sylvania Electric Products Inc. 144 Taco Heaters, Inc. 32 Tennessee Eastman Corporation 176 (Subsidiary of Eastman Kodak Co.) 177 Timber Engineering Company 137 Timber Structures, Inc. 146 Timber Structures, Inc. 147 Time 166 Timken Silent Automatic Division 137 (The Timken-Detroit Axle Co.) 166 Tonlurst Centrifugal Division 116 (American Machine and Metals, Inc.) 177 Trane Company, The 167 Traner States Gypsum Company 28, 29 Union Carbide and Carbon Corporation 29, 29 Union Carbide and Carbon Corporation 34 United States Radiator Corporation 34 United States Radiator Corporation 35 United States Steel Corporation 36 United States Steel Corporation 37 Universal Atlas Cement Co. 33 United States Steel Corporation 34 Universal Atlas Cement Co. 35 Van Range, John, Co., The 36 Wakefield, W. F., Brass Co., The 36 Wakefield, W. F., Brass Co., The 36 Westinghouse Electric & Manufacturing Co. 33, 132, 17 Williams Oil-O-Matic Heating Corporation 16 Waternold Company, The 165 York Heat Division of York-Shipley, Inc. 145 Youngstown Pressed Steel Division 155 Sundant States Division 16 Values Steel Division 16 Values Division	Richmond Fireproof Door Company	:
Samson Cordage Works 166 Sloan Valve Company 127 Solvay Sales Corporation 116 Sonneborn Sons Inc., L. 177 Square D Company 21 Stanley Work, The 166 Stran-Steel Division 18 (Great Lakes Steel Corporation) 167 Superior Steel Corporation 155 Sylvania Electric Products Inc. 144 Taco Heaters, Inc. 32 Tennessee Eastman Corporation 17 (Subsidiary of Eastman Kodak Co.) 17 Tile-Tex Company The 120 Timber Engineering Company 13 Timber Structures, Inc. 144 Time 166 Timken Silent Automatic Division 13 (The Timken-Detroit Axle Co.) 113 Tolhurst Centrifugal Division 13 (American Machine and Metals Inc.) 15 Trane Company, The 167 Traverse Bay Mfg. Co. 155 (Affiliated with The Parsons Co.) 156 Truscon Steel Company 28, 29	Rowe Manufacturing Co	99
Solvay Sales Corporation 116	Samson Cordage Works	164
Sonneborn Sons Inc., L. 175 Square D Company 21 Stanley Work, The 166 Stran-Steel Division 186 (Great Lakes Steel Corporation) 167 Superior Steel Corporation 155 Superior Steel Corporation 155 Sylvania Electric Products Inc. 144 Taco Heaters, Inc. 32 Tennessee Eastman Corporation 176 (Subsidiary of Eastman Kodak Co.) 176 Tile-Tex Company The 126 Timber Engineering Company 131 Timber Structures, Inc. 145 Time 166 Timken Silent Automatic Division 137 (The Timken-Detroit Axle Co.) 137 Trane Company, The 167 Traner Company, The 167 Traverse Bay Mfg. Co. 155 (Affiliated with The Parsons Co.) 157 Truscon Steel Company 28, 29 United States Gypsum Company 138 United States Radiator Corporation 22, 25 United States Steel Corporation 29, 116 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal Atlas Cement Co. 137 Universal Atlas Cement Co. 136 Universal At		
Stanley Work, The Stran-Steel Division (Great Lakes Steel Corporation) Structural Clay Products Institute Superior Steel Corporation Sylvania Electric Products Inc. Taco Heaters, Inc. Tennessee Eastman Corporation (Subsidiary of Eastman Kodak Co.) Tile-Tex Company The Timber Engineering Company 131 Timber Structures, Inc. 142 Timber Silent Automatic Division (The Timken-Detroit Axle Co.) Tolhurst Centrifugal Division (American Machine and Metals Inc.) Trane Company, The Traverse Bay Mfg. Co. (Affiliated with The Parsons Co.) Truscon Steel Company Union Carbide and Carbon Corporation United States Gypsum Company United States Radiator Corporation United States Steel Corporation United States Steel Corporation Universal Atlas Cement Co. (United States Steel Corporation Subsidiary) Upson Company, The Van Range, John, Co., The Wakefield, W. F., Brass Co., The Wakefield, W. F., Brass Co., The Wakefield, W. F., Brass Co., Inc. Westinghouse Electric & Manufacturing Co. 33, 132, 171 Williams Oil-O-Matic Heating Corporation 165 Wiremold Company, The 167 York Heat Division of York-Shipley, Inc. 168 York Heat Division of York-Shipley, Inc. 169 Youngstown Pressed Steel Division 157	Sonneborn Sons Inc., L.	175
Superior Steel Corporation 15 Sylvania Electric Products Inc. 14 Taco Heaters, Inc. 32 Tennessee Eastman Corporation 17 (Subsidiary of Eastman Kodak Co.) Tile-Tex Company The 12 Timber Engineering Company 13 Timber Structures, Inc. 14 Time 16 Timken Silent Automatic Division 13 (The Timken-Detroit Axle Co.) Tolhurst Centrifugal Division 113 (American Machine and Metals Inc.) Trane Company, The 167 Traverse Bay Mfg. Co. 155 (Affiliated with The Parsons Co.) Truscon Steel Company 28, 29 Union Carbide and Carbon Corporation 22, 25 United States Gypsum Company 13 United States Radiator Corporation 00 United States Steel Corporation 13 Universal Atlas Cement Co. 13 Universal Atlas Cement Co. 13 Universal Atlas Cement Co. 13 Wasterfilm Boilers, Inc. 16 Wakefield, W. F., Brass Co., The 10 Wakefield, W. F., Brass Co., The 10 Waterfilm Boilers, Inc. 13 Westinghouse Electric & Manufacturing Co. 33, 132, 17 Williams Oil-O-Matic Heating Corporation 16 Wiremold Company, The 162 York Heat Division of York-Shipley, Inc. 14 Youngstown Pressed Steel Division 157	Stanley Work, The	166
Superior Steel Corporation 15 Sylvania Electric Products Inc. 14 Taco Heaters, Inc. 32 Tennessee Eastman Corporation 17 (Subsidiary of Eastman Kodak Co.) Tile-Tex Company The 12 Timber Engineering Company 13 Timber Structures, Inc. 14 Time 16 Timken Silent Automatic Division 13 (The Timken-Detroit Axle Co.) Tolhurst Centrifugal Division 113 (American Machine and Metals Inc.) Trane Company, The 167 Traverse Bay Mfg. Co. 155 (Affiliated with The Parsons Co.) Truscon Steel Company 28, 29 Union Carbide and Carbon Corporation 22, 25 United States Gypsum Company 13 United States Radiator Corporation 00 United States Steel Corporation 13 Universal Atlas Cement Co. 13 Universal Atlas Cement Co. 13 Universal Atlas Cement Co. 13 Wasterfilm Boilers, Inc. 16 Wakefield, W. F., Brass Co., The 10 Wakefield, W. F., Brass Co., The 10 Waterfilm Boilers, Inc. 13 Westinghouse Electric & Manufacturing Co. 33, 132, 17 Williams Oil-O-Matic Heating Corporation 16 Wiremold Company, The 162 York Heat Division of York-Shipley, Inc. 14 Youngstown Pressed Steel Division 157	Stran-Steel Division	18
Superior Steel Corporation 15 Sylvania Electric Products Inc. 14 Taco Heaters, Inc. 32 Tennessee Eastman Corporation 17 (Subsidiary of Eastman Kodak Co.) Tile-Tex Company The 12 Timber Engineering Company 13 Timber Structures, Inc. 14 Time 16 Timken Silent Automatic Division 13 (The Timken-Detroit Axle Co.) Tolhurst Centrifugal Division 113 (American Machine and Metals Inc.) Trane Company, The 167 Traverse Bay Mfg. Co. 155 (Affiliated with The Parsons Co.) Truscon Steel Company 28, 29 Union Carbide and Carbon Corporation 22, 25 United States Gypsum Company 13 United States Radiator Corporation 00 United States Steel Corporation 13 Universal Atlas Cement Co. 13 Universal Atlas Cement Co. 13 Universal Atlas Cement Co. 13 Wasterfilm Boilers, Inc. 16 Wakefield, W. F., Brass Co., The 10 Wakefield, W. F., Brass Co., The 10 Waterfilm Boilers, Inc. 13 Westinghouse Electric & Manufacturing Co. 33, 132, 17 Williams Oil-O-Matic Heating Corporation 16 Wiremold Company, The 162 York Heat Division of York-Shipley, Inc. 14 Youngstown Pressed Steel Division 157	Structural Clay Products Institute	163
Taco Heaters, Inc. 32 Tennessee Eastman Corporation 17 (Subsidiary of Eastman Kodak Co.) Tile-Tex Company The 126 Timber Engineering Company 137 Timber Structures, Inc. 142 Time 166 Timken Silent Automatic Division 137 (The Timken-Detroit Axle Co.) Tolhurst Centrifugal Division 113 (American Machine and Metals Inc.) Trane Company, The 167 Traverse Bay Mfg. Co. 152 (Affiliated with The Parsons Co.) Truscon Steel Company 28, 29 Union Carbide and Carbon Corporation 22, 22 United States Gypsum Company 138 United States Radiator Corporation 0pp. 112 United States Steel Corporation 134 Universal Atlas Cement Co. 136 (United States Steel Corporation Subsidiary) Upson Company, The 35 Van Range, John, Co., The 106 Wakefield, W. F., Brass Co., The 106 Waterfilm Boilers, Inc. 156 Weis, Henry, Mfg. Co., Inc. 136 Westinghouse Electric & Manufacturing Co. 33, 132, 171 Williams Oil-O-Matic Heating Corporation 165 York Heat Division of York-Shipley, Inc. 147 Youngstown Pressed Steel Division 157	Superior Steel Corporation	153
(Subsidiary of Eastman Kodak Co.) Tile-Tex Company The	Taco Heaters, Inc.	32
Tile-Tex Company The 126 Timber Engineering Company 131 Timber Structures, Inc. 144 Time 166 Timken Silent Automatic Division 137 (The Timken-Detroit Axle Co.) 115 Tollurst Centrifugal Division 116 (American Machine and Metals Inc.) 167 Trane Company, The 167 Traverse Bay Mfg. Co. 152 (Affiliated with The Parsons Co.) 152 Truscon Steel Company 28, 29 Union Carbide and Carbon Corporation 22, 25 United States Gypsum Company 138 United States Radiator Corporation 0pp. 113 Universal Atlas Cement Co. 134 Universal Atlas Cement Co. 134 Universal Atlas Steel Corporation Subsidiary) 19 Upson Company, The 35 Van Range, John, Co., The 104 Wakefield, W. F., Brass Co., The 106 Waterfilm Boilers, Inc. 156 Weis, Henry, Mfg. Co., Inc. 136 Weis, Henry, Mfg. Co., Inc. 137 <t< td=""><td>Tennessee Eastman Corporation</td><td>17</td></t<>	Tennessee Eastman Corporation	17
Timber Structures, Inc. 142 Time 160 Timken Silent Automatic Division 137 (The Timken-Detroit Axle Co.) 1137 Tolhurst Centrifugal Division 1137 (American Machine and Metals Inc.) 167 Traverse Bay Mfg. Co. 152 (Affiliated with The Parsons Co.) 152 Truscon Steel Company 28, 29 Union Carbide and Carbon Corporation 22, 25 United States Gypsum Company 138 United States Radiator Corporation opp. 113 United States Steel Corporation 134 Universal Atlas Cement Co. 136 (United States Steel Corporation Subsidiary) 19son Company, The Van Range, John, Co., The 104 Wakefield, W. F., Brass Co., The 106 Wastinghouse Electric & Manufacturing Co. 33, 132, 171 Westinghouse Electric & Manufacturing Co. 33, 132, 171 Williams Oil-O-Matic Heating Corporation 16 York Heat Division of York-Shipley, Inc. 14 Youngstown Pressed Steel Division 157	Tile-Tex Company The	126
Time 160 Timken Silent Automatic Division 133 (The Timken-Detroit Axle Co.) 113 Tolhurst Centrifugal Division 113 (American Machine and Metals Inc.) 167 Trane Company, The 166 Traverse Bay Mfg. Co. 152 (Affiliated with The Parsons Co.) 152 Truscon Steel Company 28, 29 Union Carbide and Carbon Corporation 22, 25 United States Gypsum Company 136 United States Radiator Corporation opp. 113 United States Steel Corporation 134 Universal Atlas Cement Co. 134 (United States Steel Corporation Subsidiary) 19 Upson Company, The 35 Van Range, John, Co., The 104 Wakefield, W. F., Brass Co., The 106 Waterfilm Boilers, Inc. 156 Weis, Henry, Mfg. Co., Inc. 136 Weisinghouse Electric & Manufacturing Co. 33, 132, 171 Williams Oil-O-Matic Heating Corporation 16 York Heat Division of York-Shipley, Inc. 14 Youngst	Timber Engineering Company	131
(The Timken-Detroit Axle Co.) Tolhurst Centrifugal Division	Time	160
Tolhurst Centrifugal Division	(The Timken-Detroit Axle Co.)	
Trane Company, The	Tolhurst Centrifugal Division	
Traverse Bay Mfg. Co. (Affiliated with The Parsons Co.) Truscon Steel Company 28, 29 Union Carbide and Carbon Corporation 22, 25 United States Gypsum Company 136 United States Radiator Corporation opp. 117 United States Steel Corporation 134 Universal Atlas Cement Co. 136 (United States Steel Corporation Subsidiary) Upson Company, The 35 Van Range, John, Co., The 104 Wakefield, W. F., Brass Co., The 106 Waterfilm Boilers, Inc. 156 Weis, Henry, Mfg. Co., Inc. 137 Weishensy, Mfg. Co., Inc. 138 Westinghouse Electric & Manufacturing Co. 33, 132, 177 Williams Oil-O-Matic Heating Corporation 16 Wiremold Company, The 162 York Heat Division of York-Shipley, Inc. 144 Youngstown Pressed Steel Division 157	Trane Company, The	167
Truscon Steel Company 28, 25 Union Carbide and Carbon Corporation 22, 25 United States Gypsum Company 13 United States Radiator Corporation opp. 11 United States Steel Corporation 134 Universal Atlas Cement Co. 134 (United States Steel Corporation Subsidiary) 19son Company, The Van Range, John, Co., The 104 Wakefield, W. F., Brass Co., The 106 Waterfilm Boilers, Inc. 156 Westinghouse Electric & Manufacturing Co. 33, 132, 171 Williams Oil-O-Matic Heating Corporation 16 Wiremold Company, The 162 York Heat Division of York-Shipley, Inc. 14 Youngstown Pressed Steel Division 157	Traverse Bay Mfg. Co.	152
United States Gypsum Company 138 United States Radiator Corporation opp. 115 United States Steel Corporation 134 Universal Atlas Cement Co. 136 (United States Steel Corporation Subsidiary) Upson Company, The Van Range, John, Co., The 106 Wakefield, W. F., Brass Co., The 106 Waterfilm Boilers, Inc. 156 Westinghouse Electric & Manufacturing Co. 33, 132, 171 Williams Oil-O-Matic Heating Corporation 16 Wiremold Company, The 162 York Heat Division of York-Shipley, Inc. 14 Youngstown Pressed Steel Division 157	Truscon Steel Company28	
United States Radiator Corporation opp. 113 United States Steel Corporation 134 Universal Atlas Cement Co. 134 (United States Steel Corporation Subsidiary) Upson Company, The 35 Van Range, John, Co., The 104 Wakefield, W. F., Brass Co., The 106 Waterfilm Boilers, Inc. 156 Weis, Henry, Mfg. Co., Inc. 133 Westinghouse Electric & Manufacturing Co. 33, 132, 171 Williams Oil-O-Matic Heating Corporation 16 Work Heat Division of York-Shipley, Inc. 14 Youngstown Pressed Steel Division 157	Union Carbide and Carbon Corporation	, 23 138
Universal Atlas Cement Co	United States Radiator Corporationopp.	113
(United States Steel Corporation Subsidiary) Upson Company, The 38 Van Range, John, Co., The 104 Wakefield, W. F., Brass Co., The 156 Waterfilm Boilers, Inc. 156 Westinghouse Electric & Manufacturing Co. 33, 132, 17 Williams Oil-O-Matic Heating Corporation 16 Wiremold Company, The 162 York Heat Division of York-Shipley, Inc. 14 Youngstown Pressed Steel Division 157	United States Steel Corporation	134
Van Range, John, Co., The104Wakefield, W. F., Brass Co., The106Waterfilm Boilers, Inc.156Weis, Henry, Mfg. Co., Inc.136Westinghouse Electric & Manufacturing Co.33, 132, 171Williams Oil-O-Matic Heating Corporation16Wiremold Company, The162York Heat Division of York-Shipley, Inc.144Youngstown Pressed Steel Division157	(United States Steel Corporation Subsidiary)	
Wakefield, W. F., Brass Co., The		
Waterfilm Boilers, Inc. 156 Weis, Henry, Mfg. Co., Inc. 136 Westinghouse Electric & Manufacturing Co. 33, 132, 177 Williams Oil-O-Matic Heating Corporation 10 Wiremold Company, The 162 York Heat Division of York-Shipley, Inc. 144 Youngstown Pressed Steel Division 157		
Weis, Henry, Mfg. Co., Inc. 136 Westinghouse Electric & Manufacturing Co. 33, 132, 177 Williams Oil-O-Matic Heating Corporation 16 Wiremold Company, The 162 York Heat Division of York-Shipley, Inc. 144 Youngstown Pressed Steel Division 157	Waterfilm Boilers, Inc.	156
Williams Oil-O-Matic Heating Corporation 10 Wiremold Company, The 165 York Heat Division of York-Shipley, Inc. 147 Youngstown Pressed Steel Division 157	Weis, Henry, Mfg. Co., Inc.	
York Heat Division of York-Shipley, Inc. 14 Youngstown Pressed Steel Division 157	Williams Oil-O-Matic Heating Corporation	10
Youngstown Pressed Steel Division	된 것이 그렇게 있으면 하는 그는 그는 그들이 생각하게 그렇게 하는 그를 보고 있다. 그리고 있는 그리고 있는 그리고 있다면 하는 것이 없는 것이 없는 것이 없었다.	
	Youngstown Pressed Steel Division	