



TOLEDO TESTING LABORATORY, INC.

OFFICES
1810 N. 12th Street
TOLEDO, OHIO 43624

INSPECTING AND TESTING ENGINEERS

TELEPHONE
241-7175

Concrete Cylinder Report

NOVEMBER 26, 1975
NAPOLEON WAREHOUSE
NAPOLEON, OHIO

Report of Compression Test on Concrete specimens representing material used in:

NAPOLEON WAREHOUSE

Laboratory No. 398900
Identification NW-3
P. O. No.

1175 Independence Dr.

Tested For Napoleon Warehouse
Concrete Supplier Saneholtz Supply Co.

Mix.....	Slump....."	Abs. Vol. Yield.....cu. ft.
Designed Stg. @ 28 Days.....	Wt./cu. ft.....#	Entrained Air.....%
W/C: Gal./sack.....	Field Yield.....cu. ft.	Meter.....
Source		
Aggregate—Fine.....		Size..... mesh to..... mesh
Aggregate—Coarse "A".....		Size..... mesh to..... mesh
Aggregate—Coarse "B".....		Size..... mesh to..... mesh
Cement.....		Type..... Bin #.....

Capacity of Mixer.....	Cement Factor, sacks/cu. yd.....
Type of Mixer.....	Free water in Fine Aggregate.....%
Mixing Time.....	Free water in Coarse Aggregate "A".....%
Temperature of Concrete.....°F. Atmospheric:.....°F.	Free water in Coarse Aggregate "B".....%

BATCH PROPORTIONS

CURING OF CYLINDERS

Aggregates:	Saturated Surface Dry Weights	Wet Weight	Dry Loose Volumes	Damp Loose Volumes
Portland Cement.....		564# (6.0 sacks)		
Fine Aggregate.....				
Coarse Aggregate "A".....				
Coarse Aggregate "B".....				
Water—Added.....				
Water—Total.....				
Admixture.....				

Dry Air Temp.....to.....°F.
Period7 days on site
Damp Sandto.....°F.
Period
Moist Room, Standard Curing, 70° F., 95% Humidity
Period21 days
Weather..... Mean Temp.....°F.

Cylinders made.....10-29-75..... Tested.....11-26-75..... Dia.....6....." Area, sq. in.....28.27..... Ends Capped with Cylcap
Length — inches.....12 1/16

COMPRESSIVE STRENGTH

AGE (days)	CYLINDER WEIGHT (lb.)	WEIGHT CU. FT. (lb.)	TOTAL LOAD (lb.)	COMPRESSIVE STRENGTH (lb./sq. in.)
28	28 9/16	144.81	135,000	4775

Remarks: Orig. & 1cc: Napoleon Warehouse
1cc: City of Napoleon

Made by your forces

MAS

jar

Neil R. Blaksley
Neil R. Blaksley, P.E.
General Manager



TOLEDO TESTING LABORATORY, INC.

OFFICES
1810 N. 12th Street
TOLEDO, OHIO 43624

INSPECTING AND TESTING ENGINEERS

TELEPHONE
241-7175

Concrete Cylinder Report

NOVEMBER 28, 1975
NAPOLEON WAREHOUSE
NAPOLEON, OHIO

Report of Compression Test on Concrete specimens representing material used in:

NAPOLEON WAREHOUSE

Laboratory No. 398901
Identification NW-4
P. O. No.

Tested For Napoleon Warehouse
Concrete Supplier Saneholtz Supply Co.

Mix.....	Slump....."	Abs. Vol. Yield.....cu. ft.
Designed Stg. @ 28 Days.....	Wt./cu. ft.....#	Entrained Air.....%
W/C: Gal./sack.....	Field Yield.....cu. ft.	Meter.....
Source.....		
Aggregate—Fine.....	Size.....mesh to.....mesh	
Aggregate—Coarse "A".....	Size.....mesh to.....mesh	
Aggregate—Coarse "B".....	Size.....mesh to.....mesh	
Cement.....	Type.....	Bin #.....

Capacity of Mixer.....	Cement Factor, sacks/cu. yd.....
Type of Mixer.....	Free water in Fine Aggregate.....%
Mixing Time.....	Free water in Coarse Aggregate "A".....%
Temperature of Concrete.....°F. Atmospheric.....°F.	Free water in Coarse Aggregate "B".....%

BATCH PROPORTIONS

CURING OF CYLINDERS

Aggregates:	Saturated-Surface Dry Weights	Wet Weight	Dry Loose Volumes	Damp Loose Volumes	Dry Air Temp.....to.....°F.
Portland Cement.....		564# (6.0 sacks)			Period 5 days on site
Fine Aggregate.....					Damp Sand.....to.....°F.
Coarse Aggregate "A".....					Period.....
Coarse Aggregate "B".....					Moist Room, Standard Curing, 70° F., 95% Humidity
Water—Added.....					Period 23 days
Water—Total.....					Weather.....Mean Temp.....°F.
Admixture.....					
Cylinders made.....10-31-75					
Length — inches.....12 1/8					
					Tested 11-28-75 Dia. 6" Area, sq. in. 28.27 Ends Capped with Cylcap

COMPRESSIVE STRENGTH

AGE (days)	CYLINDER WEIGHT (lb.)	WEIGHT CU. FT. (lb.)	TOTAL LOAD (lb.)	COMPRESSIVE STRENGTH (lb./sq. in.)
28	28 5/8	145.70	147,000	5200

Remarks:

Orig. & 1cc: Napoleon Warehouse
1cc: City of Napoleon

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Concrete Cylinder Report

AUGUST 20, 1975
NAPOLEON WAREHOUSE
BUILDINGS D & D-1
NAPOLEON, OHIO
Laboratory No. 397269
Identification NW-2
P. O. No.

Report of Compression Test on Concrete specimens representing material used in:

WALL

Tested For..... Napoleon Warehouse
Concrete Supplier..... Dielman Supply Co., Wauseon, Ohio

Mix.....	Slump....."	Abs. Vol. Yield.....cu. ft.
Designed Stg. @ 28 Days.....	Wt./cu. ft.....#	Entrained Air.....%
W/C: Gal./sack.....	Field Yield.....cu. ft.	Meter.....
Source.....		
Aggregate—Fine.....		Size.....mesh to.....mesh
Aggregate—Coarse "A".....		Size.....mesh to.....mesh
Aggregate—Coarse "B".....		Size.....mesh to.....mesh
Cement.....		Type..... Bin #.....

Capacity of Mixer.....	Cement Factor, sacks/cu. yd.....
Type of Mixer.....	Free water in Fine Aggregate.....%
Mixing Time.....	Free water in Coarse Aggregate "A".....%
Temperature of Concrete.....°F. Atmospheric.....°F.	Free water in Coarse Aggregate "B".....%

BATCH PROPORTIONS

Aggregates:	Saturated Surface Dry Weights	Wet Weight	Dry Loose Volumes	Damp Loose Volumes
Portland Cement.....		517#	(5.5 sacks)	
Fine Aggregate.....				
Coarse Aggregate "A".....				
Coarse Aggregate "B".....				
Water—Added.....				
Water—Total.....				
Admixture.....				

CURING OF CYLINDERS

Dry Air Temp.....to.....°F.
Period.....2 days on site
Damp Sand.....to.....°F.
Period.....
Moist Room, Standard Curing, 70° F., 95% Humidity
Period.....26 days
Weather..... Mean Temp.....°F.

Cylinders made..... 7-23-75..... Tested..... 8-20-75 Dia..... 6" Area, sq. in. 28.27..... Ends Capped with Cylcap
Length — inches..... 12..... 12

COMPRESSIVE STRENGTH

AGE (days)	CYLINDER WEIGHT (lb.)	WEIGHT CU. FT. (lb.)	TOTAL LOAD (lb.)	COMPRESSIVE STRENGTH (lb./sq. in.)
7	27 13/16	141.56	50,500	1786
28	27 7/8	141.88	73,500	2599

Remarks:

Orig. & 1cc: Napoleon Warehouse
1cc: City of Napoleon

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Concrete Cylinder Report

FOOTING

JULY 29 1975
NAPOLEON WAREHOUSE,
BUILDINGS D & D-1
NAPOLEON, OHIO

Laboratory No. 397268
Identification NW-1
P. O. No.

Report of Compression Test on Concrete specimens representing material used in:

Tested For..... Napoleon Warehouse
Concrete Supplier..... Dielman Supply Co., Wauseon, Ohio

Mix.....	Slump"	Abs. Vol. Yield.....cu. ft.
Designed Stg. @ 28 Days.....	Wt./cu. ft.....#	Entrained Air.....%
W/C: Gal./sack.....	Field Yield.....cu. ft.	Meter.....
Source		
Aggregate—Fine.....		Size..... mesh to..... mesh
Aggregate—Coarse "A" #57 Limestone		Size 3" mesh to No. 4 mesh
Aggregate—Coarse "B".....		Size..... mesh to..... mesh
Cement.....		Type..... Bin #.....

Capacity of Mixer.....	Cement Factor, sacks/cu. yd.....
Type of Mixer.....	Free water in Fine Aggregate.....%
Mixing Time.....	Free water in Coarse Aggregate "A".....%
Temperature of Concrete.....°F. Atmospheric.....°F.	Free water in Coarse Aggregate "B".....%

BATCH PROPORTIONS

Aggregates:	Saturated-Surface Dry Weights	Wet Weight	Dry Loose Volumes	Damp Loose Volumes
Portland Cement.....		170%	(5.0 sacks)	
Fine Aggregate.....	1500			
Coarse Aggregate "A".....	1650			
Coarse Aggregate "B".....				
Water—Added.....				
Water—Total.....				
Admixture.....				

CURING OF CYLINDERS

Dry Air Temp.....°F.
Period 10 days on site
Damp Sand.....°F.
Period.....
Moist Room, Standard Curing, 70° F., 95% Humidity
Period 4 days
Weather..... Mean Temp.....°F.

Cylinders made..... 7-15-75 Tested..... 7-29-75 Dia. 6" Area, sq. in. 28.27
Length — inches..... 12 1/8 Ends Capped with Cylcap

COMPRESSIVE STRENGTH

AGE (days)	CYLINDER WEIGHT (lb.)	WEIGHT CU. FT. (lb.)	TOTAL LOAD (lb.)	COMPRESSIVE STRENGTH (lb./sq. in.)
14	29 3/16	147.10	85,000	3006
28 day report to follow 8-12-75				

Remarks: Orig. & loc: Napoleon Warehouse Made by your forces MAS
loc: City of Napoleon

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Concrete Cylinder Report

JULY 30, 1975

NAPOLEON WAREHOUSE

BUILDINGS D & D-1

NAPOLEON, OHIO

Laboratory No. 397269

Identification NW-2

P. O. No.

Report of Compression Test on Concrete specimens representing material used in:

WALL

Tested For..... Napoleon Warehouse
Concrete Supplier..... Dialman Supply Company, Wauseon, Ohio

Mix.....	Slump"	Abs. Vol. Yield.....cu. ft.
Designed Stg. @ 28 Days.....	Wt./cu. ft.....#	Entrained Air.....%
W/C: Gal./sack.....	Field Yield.....cu. ft.	Meter.....
Source.....		
Aggregate—Fine.....		Size.....mesh to.....mesh
Aggregate—Coarse "A".....		Size.....mesh to.....mesh
Aggregate—Coarse "B".....		Size.....mesh to.....mesh
Cement.....		Type..... Bin #.....

Capacity of Mixer.....
 Type of Mixer.....
 Mixing Time.....
 Temperature of Concrete.....°F. Atmospheric.....°F.

Cement Factor, sacks/cu. yd.....
 Free water in Fine Aggregate.....%
 Free water in Coarse Aggregate "A".....%
 Free water in Coarse Aggregate "B".....%

BATCH PROPORTIONS

Aggregates:	Saturated-Surface Dry Weights	Wet Weight	Dry Loose Volumes	Damp Loose Volumes
Portland Cement.....		51.7# (5.5 sacks)		
Fine Aggregate.....				
Coarse Aggregate "A".....				
Coarse Aggregate "B".....				
Water—Added.....				
Water—Total.....				
Admixture.....				

CURING OF CYLINDERS

Dry Air Temp.....to.....°F.
 Period 2 days on site
 Damp Sandto.....°F.
 Period
 Moist Room, Standard Curing, 70° F., 95% Humidity
 Period 5 days
 Weather..... Mean Temp.....°F.

Cylinders made..... 7-23-75 Tested..... 7-30-75 Dia. 6 " Area, sq. in. 28.27
 Length — inches..... 12 Ends Capped with Cylcap

COMPRESSIVE STRENGTH

AGE (days)	CYLINDER WEIGHT (lb.)	WEIGHT CU. FT. (lb.)	TOTAL LOAD (lb.)	COMPRESSIVE STRENGTH (lb./sq. in.)
7	27 13/16	141.56	50,500	1786
28 day report to follow on 8-20-75				

Remarks:

Orig. & 1cc: Napoleon Warehouse
1cc: City of Napoleon

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Concrete Cylinder Report

Report of Compression Test on Concrete specimens representing material used in:

FOOTING

AUGUST 12, 19 75
NAPOLEON WAREHOUSE,
BUILDINGS D & D-1
NAPOLEON, OHIO
Laboratory No. 397268
Identification NW-1
P. O. No.

Tested For Napoleon Warehouse
Concrete Supplier Dielman Supply Co., Wauseon, Ohio

Mix.....	Slump"	Abs. Vol. Yield.....cu. ft.
Designed Stg. @ 28 Days.....	Wt./cu. ft.....#	Entrained Air.....%
W/C: Gal./sack.....	Field Yield.....cu. ft.	Meter.....
Source		
Aggregate—Fine.....		Size..... mesh to..... mesh
Aggregate—Coarse "A" <u>#57 Limestone</u>		Size 1" mesh to <u>No. 4</u> mesh
Aggregate—Coarse "B".....		Size..... mesh to..... mesh
Cement.....		Type..... Bin #.....

Capacity of Mixer.....	Cement Factor, sacks/cu. yd.....
Type of Mixer.....	Free water in Fine Aggregate.....%
Mixing Time	Free water in Coarse Aggregate "A".....%
Temperature of Concrete.....°F. Atmospheric.....°F.	Free water in Coarse Aggregate "B".....%

BATCH PROPORTIONS

Aggregates:	Saturated-Surface Dry Weights	Wet Weight	Dry Loose Volumes	Damp Loose Volumes
Portland Cement.....		<u>170#</u>	<u>(5.0 sacks)</u>	
Fine Aggregate.....		<u>1500#</u>		
Coarse Aggregate "A".....		<u>1650#</u>		
Coarse Aggregate "B".....				
Water—Added.....				
Water—Total.....				
Admixture.....				

CURING OF CYLINDERS

Dry Air Temp.....to.....°F.
Period <u>10 days on site</u>
Damp Sand.....to.....°F.
Period
Moist Room, Standard Curing, 70° F., 95% Humidity
Period <u>18 days</u>
Weather.....
Mean Temp.....°F.

Cylinders made 7-15-75 Tested 8-12-75 Dia. 6" Area, sq. in. 28.27 Ends Capped with Cylcap
Length — inches. 12 1/8 12 1/8

COMPRESSIVE STRENGTH

AGE (days)	CYLINDER WEIGHT (lb.)	WEIGHT CU. FT. (lb.)	TOTAL LOAD (lb.)	COMPRESSIVE STRENGTH (lb./sq. in.)
14	29 3/16	147.10	85,000	3006
28	29	146.16	97,500	3449

Remarks:

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1cc: City of Napoleon

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