

How To Specify

POLYWRAP/PIPELINE ENCASEMENTS

CONFORMS TO: ANSI/AWWA C105/A21.5-10

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POLYWRAP ENCASEMENT

CORROSION PROTECTION FOR CAST IRON, DUCTILE IRON AND STEEL PIPE AWWA C105-10, ANSI A21.5-10

For over 40 years polyethylene encasement has proven to be an effective method of protecting ductile iron pipe from corrosion. Tests have shown that when loose polyethylene encasement is installed on pipe, it provides an economical means of corrosion protection.

- Polyethylene film prevents contact between pipe and the surrounding soil, however, it is not meant to be an air or water tight encasement
- For use on metal piping systems for identification and corrosion protection or PVC pipe for identification purposes such as Reclaimed/Recycled water
- Perforated every 20' or 22' for both 18' and 20' pipe joints or in continuous rolls as per the specification.
- Diameters available to cover 6" through 42" pipe*
- Warning message repeats every 18 - 24 inches depending on size
- Printed with current AWWA C105 and ANSI A21.5 specification

PROPERTIES

Material

Group	2 (Linear)
Density	0.910 to 0.935 g/cm ³
Class	B (Colors)(1)
Dielectric Strength	Volume resistivity 10 ¹⁵ ohm-cm., min.

Physical Properties

Minimum Tensile Strength	3600 PSI (24.8 MPa- ASTM D882)
Minimum Elongation	800% (ASTM 882)
Minimum Dielectric Strength	800 V/mil (ASTM D149)
Minimum Impact Resistance	600 g (ASTM D1709 Method B)
Propagation Tear	Resistance 2550 gf (ASTM D1922)
Thickness	Minimum of 0.008 in. (8 mils)
Colors Available	Black, Clear, Purple, Blue, Green

Installation

Install polywrap according to the latest AWWA or DIPRA guidelines. Use with Christy's Polyethylene (Visqueen) Fitting Wrap and Pipewrap Tape

PRODUCT SPECIFICATIONS

Manufactured of virgin polyethylene material 8 mil minimum, group 2, linear low density. Conforms to the material requirements of the latest revision of ANSI/AWWA C105/A21.5-10 and ASTM D4976 and NT4112-10

Film is imprinted every 18"-24" with:

- Christy's
- Year of manufacture
- Specification conformance:
ANSI/AWWA C105/A21.5-10
- Minimum film thickness+material type:
8 mil-LLDPE
- Applicable pipe sizes
- Text "Warning Corrosion Protection - Repair any Damage": Purple Polywrap verbiage reads "Recycled/Reclaimed Water Line"

Sizing Guidelines:	Pipe Diameter/ Polywrap Size*
Through 6"	16" polywrap
Through 8"	20" polywrap
Through 10"	24" polywrap
Through 12"	27" polywrap
Through 14"	30" polywrap
Through 16"	34" polywrap
Through 18"	37" polywrap
Through 20-24"	54" polywrap
Through 30"	67" polywrap
Through 36"	84" polywrap
Through 42"	84" polywrap

POLYWRAP ENCASEMENT

CHRISTY'S™ POLYETHYLENE ENCASEMENT — 20' PERFORATIONS

- Colors: Black, Clear, Blue, Green, Purple
- ANSI/AWWA C105/A21.5-10 – Printed
- 8 Mil Minimum

Size	Part Number	Color	Width	Length	Perf	Nominal Pipe OD	Rolls per Pallet
BLACK 20' PERFORATIONS - 400' & 200' Rolls							
16 x 400	WRP-16400B-AWWA	Black	16	400	20	4-6"	20
20 x 400	WRP-20400B-AWWA	Black	20	400	20	8"	20
24 x 400	WRP-24400B-AWWA	Black	24	400	20	10"	16
27 x 400	WRP-27400B-AWWA	Black	27	400	20	12"	16
30 x 400	WRP-30400B-AWWA	Black	30	400	20	14"	16
30 x 200	WRP-30200B-AWWA	Black	30	200	20	14"	25
34 x 200	WRP-34200B-AWWA	Black	34	200	20	16"	25
37 x 200	WRP-37200B-AWWA	Black	37	200	20	18"	25
54 x 200	WRP-54200B-AWWA	Black	54	200	20	24"	16
67 x 200	WRP-67200B-AWWA	Black	67	200	20	30"	12
84 x 200	WRP-84200B-AWWA	Black	84	200	20	42"	12
BLACK 20' PERFORATIONS - 340' Rolls							
20 x 340	WRP-20340B-AWWA	Black	20	340	20	8"	32
27 x 340	WRP-27340B-AWWA	Black	27	340	20	14"	24
37 x 340	WRP-37340B-AWWA	Black	37	340	20	18"	18
54 x 340	WRP-54340B-AWWA	Black	54	340	20	24"	12



POLYWRAP ENCASEMENT

CHRISTY'S™ POLYETHYLENE ENCASEMENT — 20' PERFORATIONS

- Colors: Black, Clear, Blue, Green , Purple
- ANSI/AWWA C105/A21.5-10 – Printed
- 8 Mil Minimum

Size	Part Number	Color	Width	Length	Perf	Nominal Pipe OD	Rolls per Pallet
BLUE 20' PERFORATIONS - 400' & 200' Rolls							
20 x 400	WRP-20400BLU-AWWA	Blue	20	400	20	Up to 8"	20
24 x 400	WRP-24400BLU-AWWA	Blue	24	400	20	10"	16
27 x 400	WRP-27400BLU-AWWA	Blue	27	400	20	12"	16
30 x 400	WRP-30400BLU-AWWA	Blue	30	400	20	14"	16
30 x 200	WRP-30200BLU-AWWA	Blue	30	200	20	14"	25
34 x 200	WRP-34200BLU-AWWA	Blue	34	200	20	16"	25
37 x 200	WRP-37200BLU-AWWA	Blue	37	200	20	18"	25
54 x 200	WRP-54200BLU-AWWA	Blue	54	200	20	24"	16
67 x 200	WRP-67200BLU-AWWA	Blue	67	200	20	30"	12
84 x 200	WRP-84200BLU-AWWA	Blue	84	200	20	42"	12
CLEAR 20' PERFORATIONS - 400' & 200' Rolls							
20 x 400	WRP-20400C-AWWA	Clear	20	400	20	8"	20
30 x 400	WRP-30400C-AWWA	Clear	30	400	20	14"	16
37 x 200	WRP-37200C-AWWA	Clear	37	200	20	18"	25
54 x 200	WRP-54200C-AWWA	Clear	54	200	20	24"	16
CLEAR 20' PERFORATIONS - 340' Rolls							
20 x 340	WRP-20340C-AWWA	Clear	20	340	20	8"	20
27 x 340	WRP-27340C-AWWA	Clear	27	340	20	12"	16
GREEN 20' PERFORATIONS - 340' Rolls							
20 x 340	WRP-20340G-AWWA	Green	20	340	20	8"	20
27 x 340	WRP-27340G-AWWA	Green	27	340	20	12"	16
37 x 340	WRP-37340G-AWWA	Green	37	340	20	18"	20
54 x 340	WRP-54340G-AWWA	Green	54	340	20	24"	12
PURPLE 20' PERFORATIONS - 340' & 200' Rolls							
20 x 340	WRP-20340P-AWWA	Purple	20	340	20	8"	20
27 x 340	WRP-27340P-AWWA	Purple	27	340	20	12"	16
37 x 340	WRP-37340P-AWWA	Purple	37	340	20	18"	20
54 x 340	WRP-54340P-AWWA	Purple	54	340	20	24"	12
67 x 200	WRP-67200P-AWWA	Purple	67	200	20	30"	12

POLYWRAP ENCASEMENT

CHRISTY'S™ POLYETHYLENE ENCASEMENT — 22' PERFORATIONS

- Colors: Black, Clear, Blue, Green , Purple
- ANSI/AWWA C105/A21.5-10 – Printed
- 8 Mil Minimum

Size	Part Number	Color	Width	Length	Perf	Nominal Pipe OD	Rolls per Pallet
BLACK 22' PERFORATIONS							
20 x 400	WRP-20440B-22AW	Black	20	440	22	8"	20
24 x 400	WRP-24440B-22AW	Black	24	440	22	10"	16
27 x 400	WRP-27440B-22AW	Black	27	440	22	12"	16
30 x 400	WRP-30220B-22AW	Black	30	220	22	14"	25
30 x 200	WRP-30440B-22AW	Black	30	440	22	14"	16
34 x 200	WRP-34220B-22AW	Black	34	220	22	16"	25
37 x 200	WRP-37220B-22AW	Black	37	220	22	18"	25
54 x 200	WRP-54220B-22AW	Black	54	220	22	24"	16
67 x 200	WRP-67220B-22AW	Black	67	220	22	30"	12
81 x 110	WRP-81110B-22AW	Black	81	110	22	42"	12
84 x 220	WRP-84220B-22AW	Black	84	220	22	42"	12
BLUE 22' PERFORATIONS							
20 x 440	WRP-20440BLU-22AW	Blue	20	440	22	Up to 8"	20
24 x 440	WRP-24440BLU-AWWA	Blue	24	440	22	10"	16
27 x 440	WRP-27440BLU-22AW	Blue	27	440	22	12"	16
30 x 220	WRP-30220BLU-22AW	Blue	30	220	22	14"	25
34 x 220	WRP-34220BLU-22AW	Blue	34	220	22	16"	25
37 x 220	WRP-37220BLU-22AW	Blue	37	220	22	Up to 18"	25
54 x 220	WRP-54220BLU-22AW	Blue	54	220	22	24"	25
67 x 220	WRP-67220BLU-22AW	Blue	67	220	22	30"	12
CLEAR 22' PERFORATIONS							
20 x 440	WRP-20440C-22AW	Clear	20	440	22	8"	16
27 x 440	WRP-27440C-22AW	Clear	27	440	22	12"	16
37 x 220	WRP-37220C-22AW	Clear	37	220	22	18"	25
54 x 220	WRP-54220-C-22AW	Clear	54	220	22	24"	16
GREEN 22' PERFORATIONS							
37 x 220	WRP-37220G-22AW	Green	37	220	22	Up to 18"	25
PURPLE: 22' PERFORATIONS							
20 x 440	WRP-20440P-22AW	Purple	20	440	22	Up to 8"	20
27 x 440	WRP-27440P-22AW	Purple	27	440	22	12"	16
34 x 220	WRP-34220P-22AW	Purple	34	220	22	16"	25
37 x 220	WRP-37220P-22AW	Purple	37	220	22	Up to 18"	25

POLYWRAP ENCASEMENT

CHRISTY'S™ POLYETHYLENE ENCASEMENT — NON-PERFORATED CONTINUOUS RUN

- Colors: Black, Clear, Blue, Green
- ANSI/AWWA C105/A21.5-10 – Printed
- 8 Mil Minimum

Size	Part Number	Color	Width	Length	Perf	Nominal Pipe OD	Rolls per Pallet
BLACK NON-PERFORATED CONTINUOUS RUN							
8 x 500	WRP-NP-08500B-AWWA	Black	8	500	Non-Perf		20
8 x 500	WRP-NP-08500B-AWWA	Black	8	500	Non-Perf		16
20 x 400	WRP-NP-20400B-AWWA	Black	20	400	Non-Perf	Up to 8"	16
27 x 400	WRP-NP-27400B-AWWA	Black	27	400	Non-Perf	12"	25
BLUE NON-PERFORATED CONTINUOUS RUN							
20 x 400	WRP-NP-20400BLU-AWWA	Blue	20	400	Non-Perf	Up to 8"	16
27 x 400	WRP-NP-27400BLU-AWWA	Blue	27	400	Non-Perf	12"	25
GREEN NON-PERFORATED CONTINUOUS RUN							
20 x 400	WRP-NP-20400G-AWWA	Green	20	400	Non-Perf	Up to 8"	25
CLEAR NON-PERFORATED CONTINUOUS RUN							
29 x 400	WRP-NP-29340C-AWWA	Clear	29	340	Non-Perf	12"	16

POLYWRAP ENCASEMENT

CHRISTY'S™ POLYETHYLENE VISQUEEN FITTING WRAP

8 mil. minimum. Clear Polyethylene Sheeting AWWA C105/A21.5-10 - Printed

This is clear polyethylene sheeting made for ease in wrapping valves, fittings and appurtenances. It is made to the same ANSI/AWWA C105/ANSI A21.5 specification as our Polywrap.

Size	Part Number	Color	Width	Length	Perf	Nominal Pipe OD	Rolls per Pallet
36 x 100	WRP-36100C-AWWA	Clear	36	100	8 mil	N/A	42

CHRISTY'S™ POLYETHYLENE — COPPER TUBE SLEEVING

For use in identifying and protecting copper service runs. 6 mil. average.

Blue or Clear Polyethylene Encasement - Not Printed. 8 mil for Purple tube sleeve.

This is a cost effective method for the protection of smaller piping being buried underground or encased in concrete. It can also be used for identification purposes and comes in the colors below.

Size	Part Number	Color	Width	Length	Perf	Nominal Pipe OD	Rolls per Pallet
COPPER TUBE SLEEVE							
3 x 200	WRP-03200BLU	Blue	3	200	6 mil	1"	48
3 x 720	WRP-03720C-06	Clear	3	720	6 mil	1"	36
4 x 200	WRP-04200BLU	Blue	4	200	6 mil	1 1/2"	48
4 x 720	WRP-04720C-06	Clear	4	720	6 mil	1 1/2"	36
4 x 200	WRP-04200P-08	Purple	4	200	8 mil	1 1/2"	48
5 x 720	WRP-05720C-06	Clear	5	720	6 mil	2"	48

POLYWRAP ENCASEMENT

CHRISTY'S™ AWWA POLYWRAP — PURPLE POLYETHYLENE PIPE ENCASEMENT

Specialty purple encasement ideal for all Recycled/Reclaimed pipe identification.

PRODUCT SPECIFICATIONS

Manufactured of virgin polyethylene material 8 mil minimum, group 2, linear low density. Conforms to the material requirements of the latest revision of ANSI/AWWA C105/A21.5-10 and ASTM D4976 and NT4112-10

Film is imprinted every 18"-24" with:

- Christy's
- Year of manufacture
- Specification conformance:
ANSI/AWWA C105/A21.5-10
- Minimum film thickness+material type:
8 mil-LLDPE
- Applicable pipe sizes
- Text "Reclaimed/Recycled Water Line
Warning Corrosion Protection Repair
Any Damage"

Sizing Guidelines:	Pipe Diameter/ Polywrap Size*
Through 6"	16" polywrap
Through 8"	20" polywrap
Through 10"	24" polywrap
Through 12"	27" polywrap
Through 14"	30" polywrap
Through 16"	34" polywrap
Through 18"	37" polywrap
Through 20-24"	54" polywrap
Through 30"	67" polywrap
Through 36"	84" polywrap
Through 42"	84" polywrap

Size	Part Number	Nominal Pipe O.D.	Feet per Roll	Feet per Perf	Rolls per Pallet
PURPLE 20' PERFORATIONS					
20" x 340'	WRP-20340P-AWWA	8"	340	20	20
27" x 340'	WRP-27340P-AWWA	12"	340	20	16
37" x 340'	WRP-37340P-AWWA	18"	340	20	20
54" x 340'	WRP-54340P-AWWA	24"	340	20	16
67" x 200' "NEW"	WRP-67200P-AWWA	30"	200	20	12
PURPLE 22' PERFORATIONS					
20" x 440'	WRP-20440P-22AW	8"	440	22	20
27" x 440'	WRP-27440P-22AW	12"	440	22	16
34" x 220'	WRP-34220P-22AW	16"	220	22	25
37" x 220'	WRP-37220P-22AW	18"	220	22	25

