



4008

2.1 dBi GAIN

915MHz BAND 1/2 WAVE DIPOLE ANTENNA

FEATURES

- Indoor Mounting
- Mount Directly on Product or on Electrical Housing With Optional Cable
- Lightweight
- Range to 3000ft

DESCRIPTION

Vertical omnidirectional antennas radiate in a pattern similar to a horizontal doughnut. Their gain is less than that of a yagi antenna which concentrates radiation in a single direction. This reduced gain limits the effective range of the omnidirectional antenna, but proves effective when directivity is not desired.

Omnidirectional antennas are useful in short range applications where their

use eliminates the need for antenna alignment. Omnidirectional antennas are also useful on the control end of a polling system.

When an omnidirectional antenna is used on the control end of a polling system, a yagi can be used on each slave unit for maximum gain and reduction in possible interference due to the front to back ratio gain reduction of the yagi antenna.

The 4008 antenna swivels 90° at the base to allow the antenna to remain vertical with the base mounted either vertically or horizontally.

Designed for indoor mounting, this 7" whip offers flexibility in mounting and dependable performance for short range systems.

SPECIFICATIONS

ELECTRICAL GAIN

2.1dBi

FREQUENCY

900-928MHz

VSWR

<2:1

IMPEDANCE

50 ohms

CONNECTOR

Reverse Polarity SMA Male
Brass With Nickle and Gold
Plating

MECHANICAL RADIATOR

Spring SS Wire

WHIP

Polyurethane (Black)

SWIVEL MECHANISM

Polycarbonate (Black)

DIAMETER

0.5"

LENGTH

7"

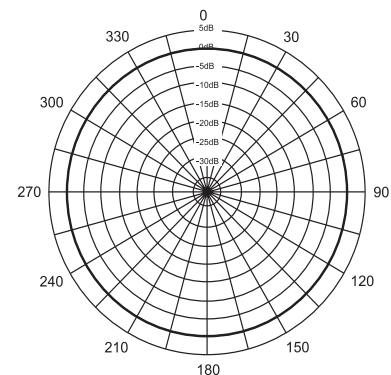
WEIGHT

0.7 Ounces.

MOUNTING

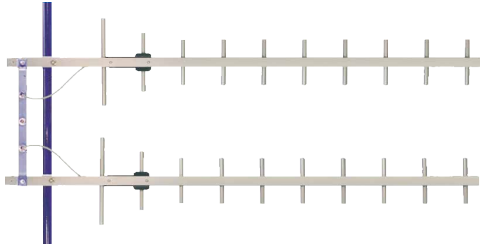
Direct Connect to Product
or Remote Mount With Optional
Extension Cable

VERTICAL PATTERN



4152

17 dBi GAIN
915MHz BAND DUAL STACKED
10 ELEMENT HEAVY DUTY YAGI



FEATURES

- High Performance
- Rugged
- Weatherproof
- Lightweight
- Durable

DESCRIPTION

This kit includes two (2) 4025 heavy duty yagi antennas that are terminated with Type N male connectors that mate with a supplied 4074 two-port coupler. The coupler adds the output of the two antennas and provides approximately 2X the signal of one antenna (3dB).

A yagi antenna can be operated with the elements mounted vertically or horizontally, but the most common use

for industrial wireless is vertical. The transmitting and receiving antenna must both have the same element polarization for satisfactory operation. A large loss in signal is experienced when the elements are crossed polarized.

When a vertical omnidirectional antenna is used on the control end of a polling system, a yagi can be used on each slave unit for maximum gain

front to back ratio gain reduction.

These heavy duty yagi antennas are constructed of 1" aluminum U channel with 3/8" solid elements. All exposed areas are coated with UV polyester. The balun assembly is filled and sealed with elastomeric thermoplastic.

The output of the 4074 two-port coupler is a Type N Female connector.

SPECIFICATIONS

ELECTRICAL GAIN

17dBi
Front to Back Ratio
20dB

FREQUENCY

896-960MHz

IMPEDANCE

50 ohms

VSWR

60MHz
<1.5:1

POWER RATING

300 watts

CONNECTOR

Type N Female On 2
Port Coupler

MECHANICAL MATERIAL

1" aluminum U channel boom
3/8" solid elements

FINISH

UV inhibited polyester coat

LENGTH

48"

WEIGHT

8 lbs.

MOUNT

Stainless Hardware for
2³/₈" mast

FLAT PLATE AREA

.998 ft²

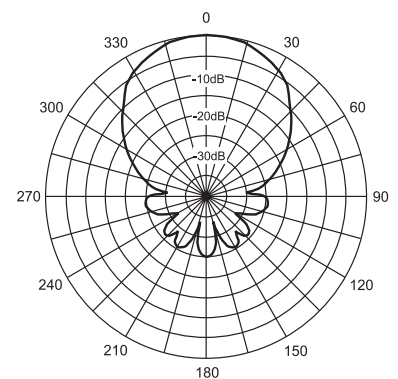
WIND RATING

125 MPH

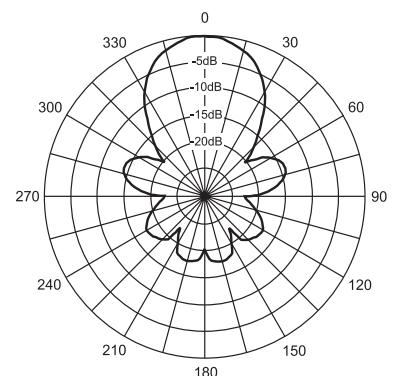
WIND LOAD

67.4 lbs.

HORIZONTAL PATTERN



VERTICAL PATTERN



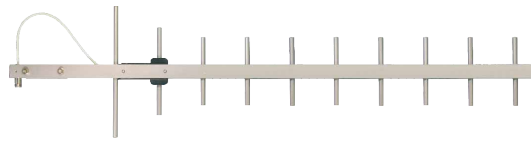
4025

14 dBi GAIN

915MHz BAND 10 ELEMENT HEAVY DUTY YAGI

FEATURES

- Rugged and Weatherproof
- Lightweight Aluminum
- SS Mounting Hardware Included
- Wind Survival to 125 MPH



DESCRIPTION

Yagi antennas achieve more gain than vertical antennas by concentrating radiation in a single direction. Their reduced gain from the back end helps keep other signals from interfering with normal operation. The front to back ratio is an important characteristic of a yagi antenna.

A yagi antenna can be operated with the elements mounted vertically or horizontally, but the most common use

for industrial wireless is vertical. The transmitting and receiving antenna must both have the same element polarization for satisfactory operation. A large loss in signal is experienced when the elements are crossed polarized.

When a vertical omnidirectional antenna is used on the control end of a polling system, a yagi can be used on each slave unit for maximum gain

and reduction in interference due to the front to back ratio gain reduction.

These heavy duty yagi antennas are constructed of 1" aluminum U channel with 3/8" solid elements. All exposed areas are coated with UV polyester. The balun assembly is filled and sealed with elastomeric thermoplastic.

The connector is a Type N Female on a 12" teflon pigtail cable.

SPECIFICATIONS

ELECTRICAL

GAIN

- 14dBi
- Front to Back Ratio 20dB

FREQUENCY

- 900-930MHz

IMPEDANCE

- 50 ohms

VSWR

- <2:1

VERT BEAMWIDTH

- 45°

HORIZ BEAM WIDTH

- 50°

POWER RATING

- 300 watts

CONNECTOR

- Type N Female on 12" Teflon Pigtail

MECHANICAL

MATERIAL

- 1" aluminum U channel boom
- 3/8" solid elements

FINISH

- UV inhibited polyester coat

LENGTH

- 48"

WEIGHT

- <4 lbs.

MOUNT

- Stainless Hardware for 2³/₈" mast

FLAT PLATE AREA

- .265 ft²

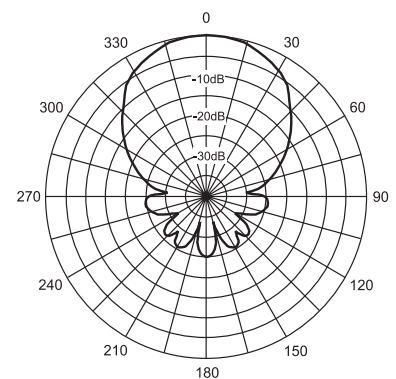
WIND RATING

- 125 MPH

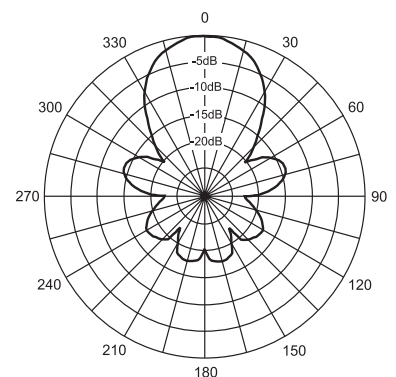
WIND LOAD

- 15.9 lbs.

HORIZONTAL PATTERN



VERTICAL PATTERN



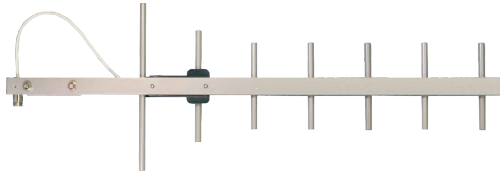
4079

12 dBi GAIN

915MHz BAND 7 ELEMENT HEAVY DUTY YAGI

FEATURES

- Rugged and Weatherproof
- Lightweight Aluminum
- SS Mounting Hardware Included
- Wind Survival to 125 MPH



DESCRIPTION

Yagi antennas achieve more gain than vertical antennas by concentrating radiation in a single direction. Their reduced gain from the back end helps keep other signals from interfering with normal operation. The front to back ratio is an important characteristic of a yagi antenna.

A yagi antenna can be operated with the elements mounted vertically or horizontally, but the most common use

for industrial wireless is vertical. The transmitting and receiving antenna must both have the same element polarization for satisfactory operation. A large loss in signal is experienced when the elements are crossed polarized.

When a vertical omnidirectional antenna is used on the control end of a polling system, a yagi can be used on each slave unit for maximum gain

and reduction in interference due to the front to back ratio gain reduction.

These heavy duty yagi antennas are constructed of 1" aluminum U channel with 3/8" solid elements. All exposed areas are coated with UV polyester. The balun assembly is filled and sealed with elastomeric thermoplastic.

The connector is a Type N Female on a 12" teflon pigtail cable..

SPECIFICATIONS

ELECTRICAL

GAIN

11dBi
Front to Back Ratio
20dB

FREQUENCY

900-930MHz

IMPEDANCE

50 ohms

VSWR

<2:1

VERT BEAMWIDTH

50°

HORIZ BEAM WIDTH

55°

POWER RATING

300 watts

CONNECTOR

Type N Female on 12" Teflon
Pigtail

MECHANICAL

MATERIAL

1" aluminum U channel boom
3/8" solid elements

FINISH

UV inhibited polyester coat

LENGTH

26"

WEIGHT

<4 lbs.

MOUNT

Stainless Hardware for
2³/₈" mast

FLAT PLATE AREA

.265 ft²

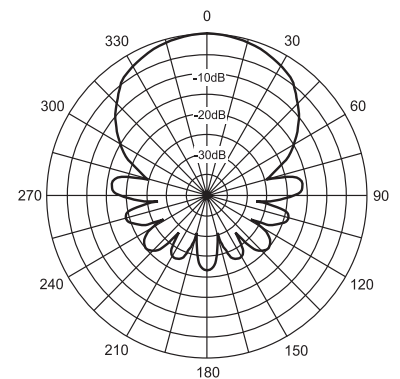
WIND RATING

125 MPH

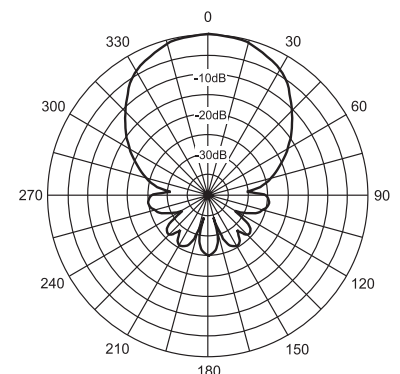
WIND LOAD

15.9 lbs.

HORIZONTAL PATTERN



VERTICAL PATTERN





4078

11 dBi GAIN

915MHz BAND 5 ELEMENT HEAVY DUTY YAGI

FEATURES

- Rugged and Weatherproof
- Lightweight Aluminum
- SS Mounting Hardware Included
- Wind Survival to 125 MPH

DESCRIPTION

Yagi antennas achieve more gain than vertical antennas by concentrating radiation in a single direction. Their reduced gain from the back end helps keep other signals from interfering with normal operation. The front to back ratio is an important characteristic of a yagi antenna.

A yagi antenna can be operated with the elements mounted vertically or horizontally, but the most common use

for industrial wireless is vertical. The transmitting and receiving antenna must both have the same element polarization for satisfactory operation. A large loss in signal is experienced when the elements are crossed polarized.

When a vertical omnidirectional antenna is used on the control end of a polling system, a yagi can be used on each slave unit for maximum gain

and reduction in interference due to the front to back ratio gain reduction.

These heavy duty yagi antennas are constructed of 1" aluminum U channel with 3/8" solid elements. All exposed areas are coated with UV polyester. The balun assembly is filled and sealed with elastomeric thermoplastic.

The connector is a Type N Female on a 12" teflon pigtail cable.

SPECIFICATIONS

ELECTRICAL

GAIN

- 11dBi
- Front to Back Ratio
- 18dB

FREQUENCY

866-960MHz

IMPEDANCE

50 ohms

VSWR

<2:1

VERT BEAM WIDTH

55°

HORIZ BEAM WIDTH

65°

POWER RATING

300 watts

CONNECTOR

Type N Female on 12" Teflon Pigtail

MECHANICAL

MATERIAL

- 1" aluminum U channel boom
- 3/8" solid elements

FINISH

UV inhibited polyester coat

LENGTH

21"

WEIGHT

<4 lbs.

MOUNT

Stainless Hardware for 2³/₈" mast

FLAT PLATE AREA

.206 ft²

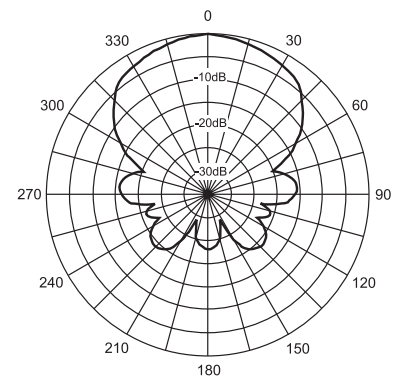
WIND RATING

125 MPH

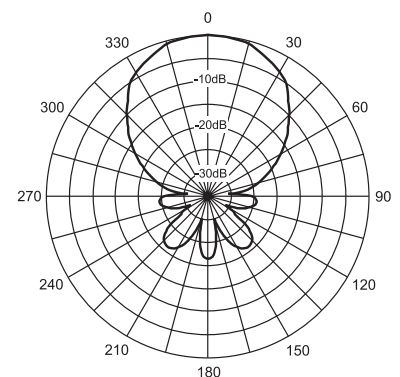
WIND LOAD

12.3 lbs.

HORIZONTAL PATTERN



VERTICAL PATTERN





4009

8 dBi GAIN

915MHz BAND 3 ELEMENT HEAVY DUTY YAGI

FEATURES

- Rugged and Weatherproof
- Lightweight Aluminum
- SS Mounting Hardware Included
- Wind Survival to 125 MPH

DESCRIPTION

Yagi antennas achieve more gain than vertical antennas by concentrating radiation in a single direction. Their reduced gain from the back end helps keep other signals from interfering with normal operation. The front to back ratio is an important characteristic of a yagi antenna.

A yagi antenna can be operated with the elements mounted vertically or horizontally, but the most common use

for industrial wireless is vertical. The transmitting and receiving antenna must both have the same element polarization for satisfactory operation. A large loss in signal is experienced when the elements are crossed polarized.

When a vertical omnidirectional antenna is used on the control end of a polling system, a yagi can be used on each slave unit for maximum gain

and reduction in interference due to the front to back ratio gain reduction.

These heavy duty yagi antennas are constructed of 1" aluminum U channel with 3/8" solid elements. All exposed areas are coated with UV polyester. The balun assembly is filled and sealed with elastomeric thermoplastic.

The connector is a Type N Female on a 12" teflon pigtail cable.

SPECIFICATIONS

ELECTRICAL

GAIN

8dBi
Front to Back Ratio
15dB

FREQUENCY

900-930MHz

IMPEDANCE

50 ohms

VSWR

<2:1

VERT BEAM WIDTH

70°

HORIZ BEAM WIDTH

90°

POWER RATING

300 watts

CONNECTOR

Type N Female on 12" Teflon
Pigtail

MECHANICAL

MATERIAL

1" aluminum U channel boom
3/8" solid elements

FINISH

UV inhibited polyester coat

LENGTH

18"

WEIGHT

<4 lbs.

MOUNT

Stainless Hardware for
2³/₈" mast

FLAT PLATE AREA

.147 ft²

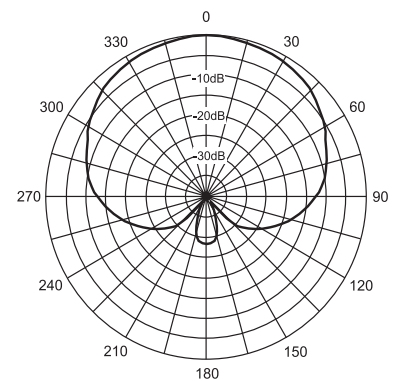
WIND RATING

125 MPH

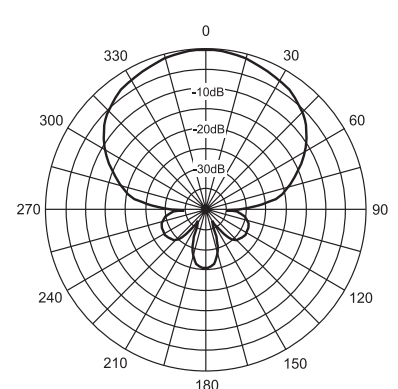
WIND LOAD

8.8 lbs.

HORIZONTAL PATTERN



VERTICAL PATTERN





4241

8.5 dBi GAIN

915MHz BAND OMNIDIRECTIONAL ANTENNA

FEATURES

- White Fiberglass Cover
- Weatherproof For Outdoor Mounting
- Lightweight 5 Pounds

DESCRIPTION

Vertical omnidirectional antennas radiate in a pattern similar to a horizontal doughnut. Their gain is proportional to their length. Increasing the length makes the doughnut pattern thinner and thereby increases the power radiated horizontally.

Omnidirectional antennas are useful in applications where their use eliminates the need for antenna alignment. Omnidirectional antennas

are routinely used on the control end of a polling system.

When an omnidirectional antenna is used on the control end of a polling system, a yagi can be used on each slave unit for maximum gain and reduction in possible interference due to the front to back ratio gain reduction of the yagi antenna.

Designed for outdoor mounting, this 60" vertical antenna offers gain and flexibility in mounting, for ease of installation and dependable

performance for medium to long range systems.

The radiating structure of this antenna is encased in a fiberglass radome to provide protection for the copper radiators. The fiberglass radome is ultraviolet inhibited. The heavy wall aluminum mounting sleeve is epoxy coated for superior weather protection.

These antennas are lightweight at 5 lbs. and are designed to survive winds to 125 MPH.

SPECIFICATIONS

ELECTRICAL

GAIN

8.5dBi

FREQUENCY

900-930MHz

IMPEDANCE

50 ohms

BANDWIDTH

30MHz

VSWR

<2.0:1

VERT BEAM WIDTH

15°

POWER RATING

250 watts

CONNECTOR

Type N Female

MECHANICAL

RADIATOR

Copper alloy elements

RADOME

White UV inhibited fiberglass

MOUNTING SLEEVE

Heavy wall epoxy coated aluminum

SLEEVE DIAMETER

1.35"

LENGTH

60"

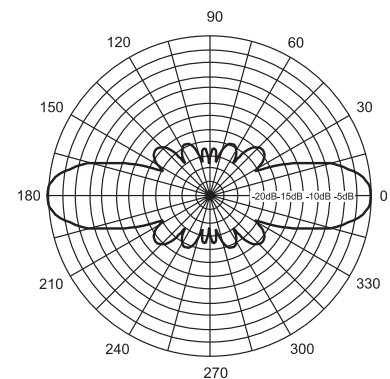
WEIGHT

5 lbs.

WIND SURVIVAL

125 MPH

VERTICAL PATTERN





4275

6 dBi GAIN

915MHz BAND OMNIDIRECTIONAL ANTENNA

FEATURES

- White Fiberglass Cover
- Weatherproof For Outdoor Mounting
- Lightweight <3 Pounds
- Mounting Hardware Included

DESCRIPTION

Vertical omnidirectional antennas radiate in a pattern similar to a horizontal doughnut. Their gain is proportional to their length. Increasing the length makes the doughnut pattern thinner and thereby increases the power radiated horizontally.

Omnidirectional antennas are useful in applications where their use eliminates the need for antenna alignment. Omnidirectional antennas

are routinely used on the control end of a polling system.

When an omnidirectional antenna is used on the control end of a polling system, a yagi can be used on each slave unit for maximum gain and reduction in possible interference due to the front to back ratio gain reduction of the yagi antenna.

Designed for outdoor mounting, this 27" vertical antenna offers gain and flexibility in mounting, for ease of

installation and dependable performance for medium to long range systems.

The radiating structure of this antenna is encased in a fiberglass radome to provide protection for the copper radiators. The fiberglass radome is ultraviolet inhibited.

This antenna is supplied with integrated mounting hardware for easy mounting on a 1 1/2" standard mast.

SPECIFICATIONS

ELECTRICAL

GAIN

6dBi

FREQUENCY

890-970MHz

IMPEDANCE

50 ohms

VSWR

<2:1

VERT BEAM WIDTH

35°

POWER RATING

100 watts

CONNECTOR

Type N Female

MECHANICAL

RADIATOR

Copper structure

RADOME

White UV inhibited fiberglass

SLEEVE DIAMETER

1.35"

LENGTH

27"

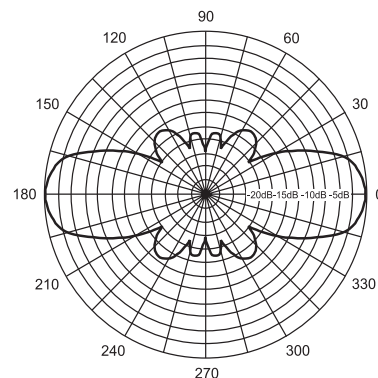
WEIGHT

<3 lbs.

MOUNTING

1 1/2" mast kit
(supplied)

VERTICAL PATTERN





4023

2.1 dBi GAIN

915MHz / 2.4GHz DUAL BAND OMNI ANTENNA

FEATURES

- Dual Band 880-1200MHz / 2.3-2.6GHz
- Polyester Coated Brass Radiator
- Gold Plated Contacts
- Requires Accessory 4024 or 4044 for Mounting

DESCRIPTION

Vertical omnidirectional antennas radiate in all directions therefore their gain is less than that of a yagi antenna that concentrates radiation in a single direction. This reduced gain limits the effective range of the omnidirectional antenna.

Omnidirectional antennas are useful in applications where their use eliminates the need for antenna alignment. Omnidirectional antennas are routinely used on the control end of a polling system.

When an omnidirectional antenna is used on the control end of a polling system, a yagi can be used on each slave unit for maximum

gain and reduction in possible interference due to the front to back ratio gain reduction of the yagi antenna.

This Dual Band antenna has an ultra wide bandwidth for the 880-1200MHz and 2300-2600MHz bands and provides 2.1dBi gain on both.

The brass radiator is coated with a polyester radome for corrosion resistance. The contacts are gold plated for corrosion resistance.

This antenna requires accessory 4024 or 4044 for mounting. Part 4024 is a Type N female connector designed for bulkhead mounting. The other end of the bulkhead

mount interfaces with the antenna.

Part 4044 allows the bulkhead connector (4024) to be mounted on a right angle bracket which has hardware to allow mounting the antenna vertically on a vertical pipe.

To insure specified operation, this antenna must have a conductive surface under it when it is mounted. Mounting the antenna on a metal electrical box provides a satisfactory ground plane.

When mounting the antenna on a mast, accessory 4044 provides an adequate ground plane for 2.4GHz operation. When used for 900MHz systems, a larger ground plane is required (4045).

SPECIFICATIONS

ELECTRICAL

FREQUENCY RANGE:

880-1200MHz
2300-2600MHz

GAIN:

2.1dBi

VSWR:

<2:1

IMPEDANCE:

50 ohms

POWER RATING:

200 watts

MECHANICAL

RADIATOR:

Polyester coated Brass

BASE:

ABS, Ultrasonic Brass Insert.

CONTACT:

Gold plated spring loaded contact

LENGTH:

2 3/4"

MOUNTING:

Accessories 4024, 4044, 4045

FINISH:

Black

VERTICAL PATTERN

