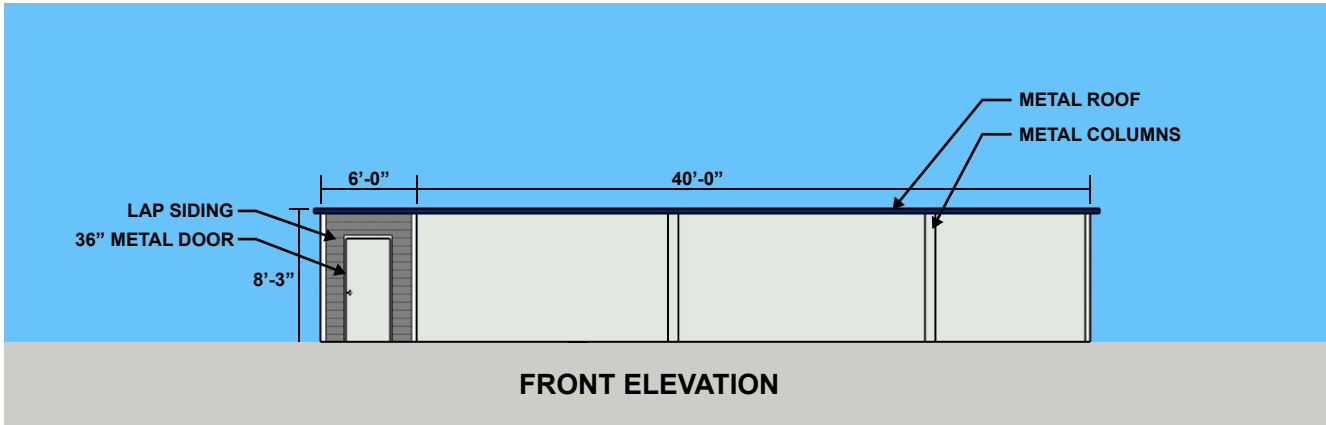
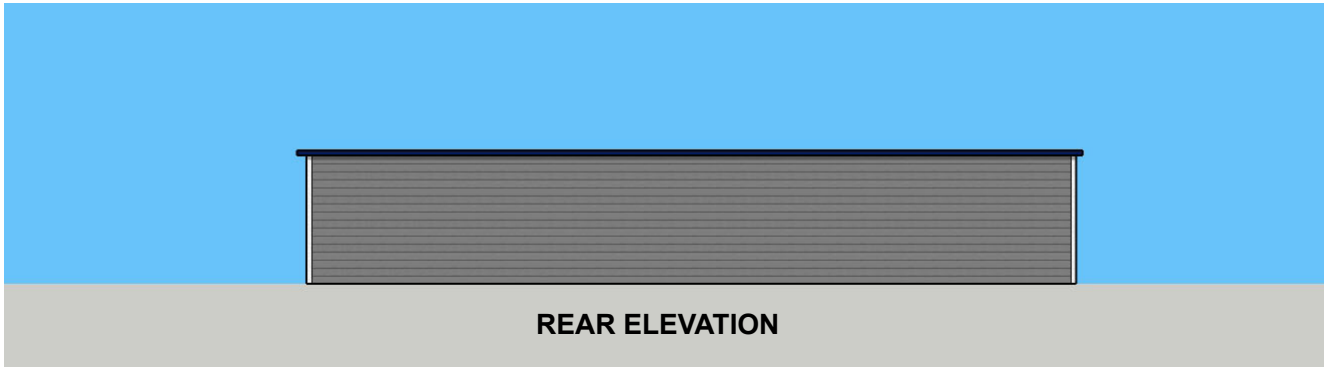




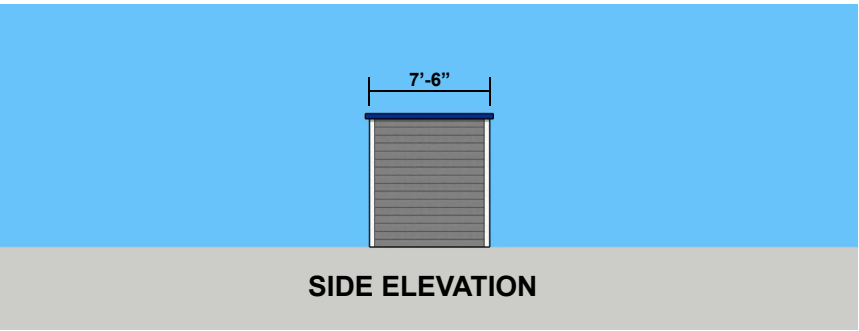
PROPOSED ELEVATIONS



FRONT ELEVATION



REAR ELEVATION

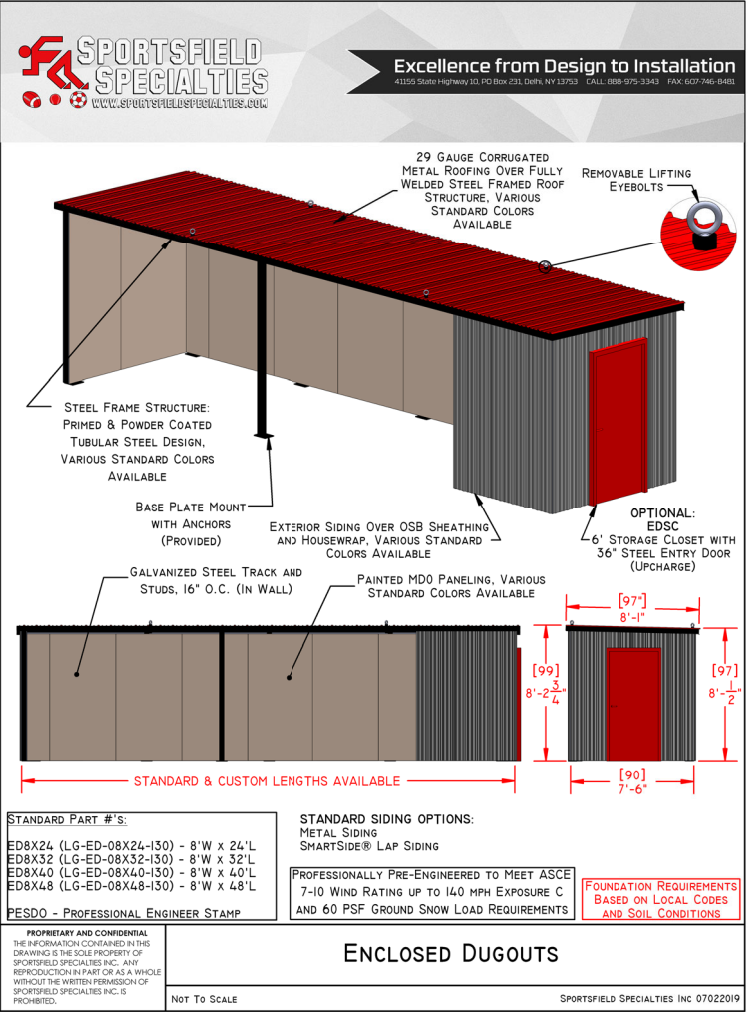


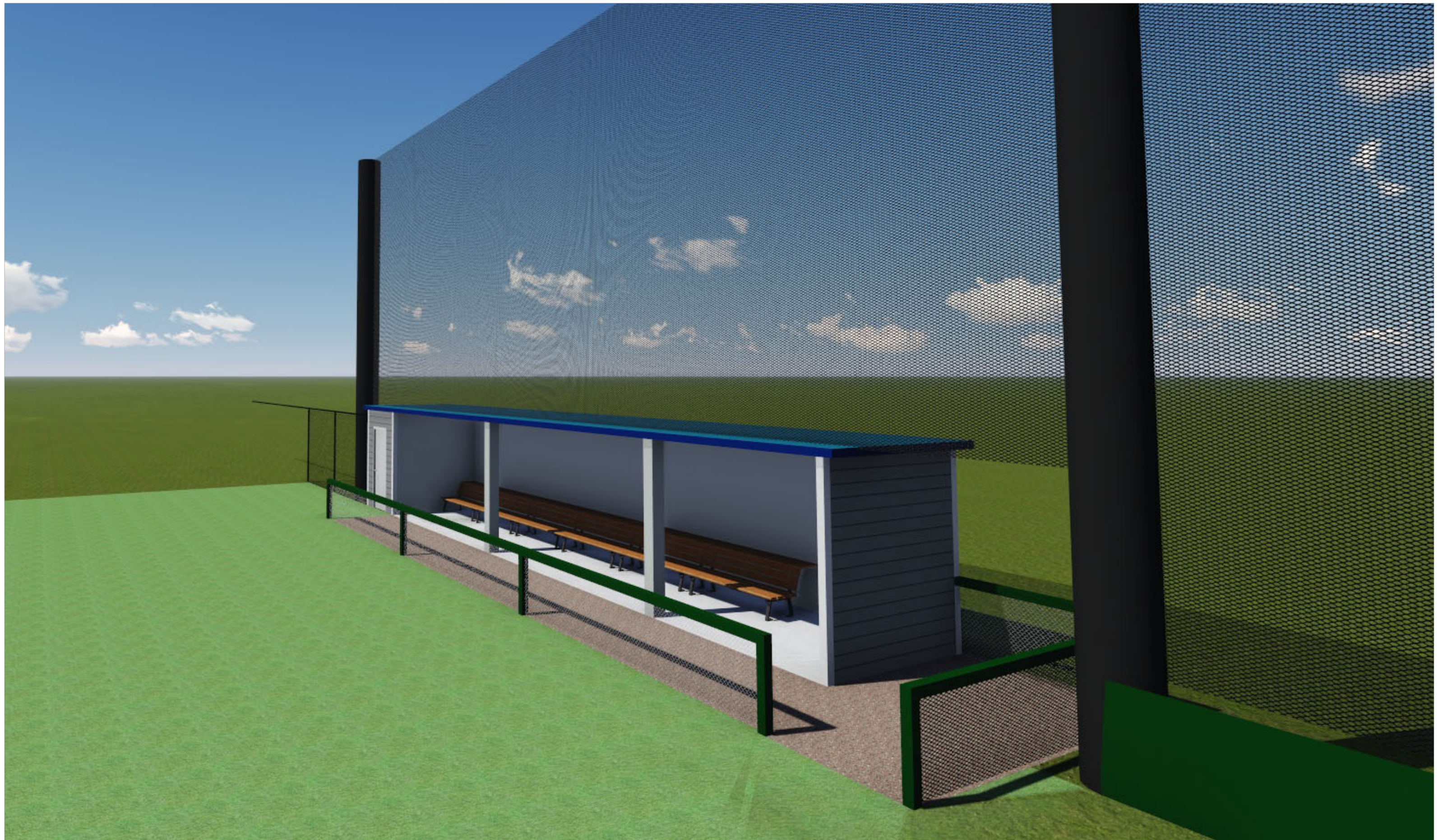
SIDE ELEVATION

EXAMPLE IMAGES



PRE-MANUFACTURED DUGOUTS
STANDARD MATERIALS VIA MANUFACTURER





FRAME PARK BASEBALL FIELD
WAUKESHA, WI

DUGOUT RENDERING

DATE 02.28.2020



The City of
WAUKESHA

JSD Professional Services, Inc.
• Engineers • Surveyors • Planners

Spectra Bond® Chain Link



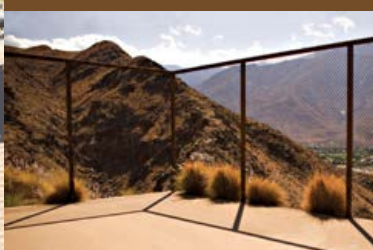
Spectra Bond® Color Chain Link... made to withstand

Spectra Bond® is a step above for Master Halco's color commercial and industrial chain link fence systems. It is extruded bonded wire, which is a better alternative to simple extruded wire. The adhesive added before the wire is extruded seals the vinyl to the wire. This ensures years of attractive and reliable performance with a better protection against nature.

Ball Parks



Perimeter Fence



Tennis Courts



Our Spectra Bond® Fencing System

Premium quality fabric and framework is guaranteed for 15 years.



15 Year Warranty



Meets and Exceeds
all ASTM Standards

Features and Benefits:

- Zinc-coated steel framework is thoroughly cleaned during the pre-treatment process, then color coated with a 3 mil minimum polyester layer for protection from corrosion.
- All galvanized wire has a 15 mil minimum extruded and adhered polyvinyl chloride coating for dual protection from corrosion and the elements.
- Fittings are made of galvanized steel with a 3 mil minimum of polyester coating for added protection.



Schools



Government Facilities



High-Security Facilities



Available Colors

Choose from 3 Spectra Bond® colors that will enhance any installation and blend in beautifully with any environment.



Midnight Black Forest Green Sierra Brown

Available Wire Gauges (Finish and Core)

Use the core gauge number when ordering.

6 gauge finish
9 gauge core



8 gauge finish
11 gauge core



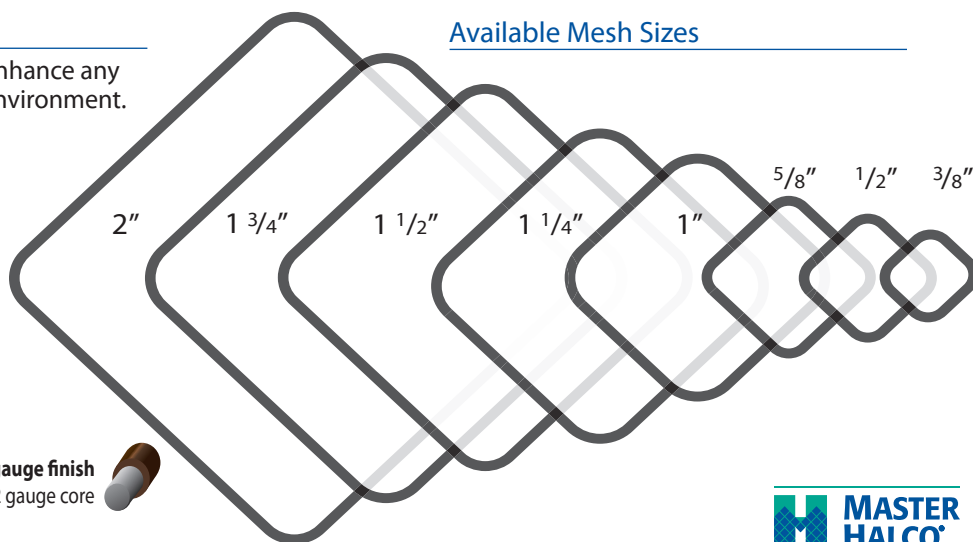
9 gauge finish
12 gauge core



11 gauge finish
14 gauge core



Available Mesh Sizes



Spectra Bond® Color Chain Link Recommendations

FABRIC

Spectra Bond® Polymer Coating Extruded and Adhered to Zinc-Coated Steel Wire per ASTM F 668 Class 2a.

Fabric Gauge	6 gauge, 9 gauge, 10 gauge, and 11 gauge core
Fabric Mesh	3/8", 1/2", 5/8", 1", 1-1/4", 1-1/2", 1-3/4", and 2"
Fabric Height	3', 42", 4', 5', 6', 7', 8', 9', 10', and 12'
Fabric Selvage	Knuckle - Knuckle (KK) for 5' and Under; for mesh sizes 1" and smaller. Knuckle - Knuckle (KK) or Knuckle - Twist (KT) for 6' and over.

FRAMEWORK - TYPE 1

Spectra® Polyester, 3 mils minimum, over galvanized steel ASTM F 1043, Group 1a, standard weight pipe, schedule 40. Hot-dipped galvanized with a minimum average 1.8 ounces per square foot of zinc-coated surface area.
Note: Heavy Mil Schedule 40 available upon request.

FRAMEWORK - TYPE 2

Spectra® Polyester, 3 mils minimum, over galvanized steel ASTM F 1043, Group 1c, with a minimum yield strength of 50,000 PSI. Protective coating per ASTM F 1043, external coating type B, zinc with organic overcoat, 0.9 ounces per square foot minimum zinc coating with chromate conversion coating and verifiable polymer film.
Note: Heavy Mil Schedule 40 available upon request.

Top Rail	1-5/8" O.D. Polyester Standard Weight Pipe (0.140" wall thickness, 2.27 lb./ft.)	1-5/8" O.D. Polyester Deluxe Quality (DQ) Pipe (0.111" wall thickness, 1.83 lb./ft.)
Line Posts	2-3/8" O.D. Polyester Standard Weight Pipe (0.154" wall thickness, 3.65 lb./ft.)	2-3/8" O.D. Polyester Deluxe Quality (DQ) Pipe (0.130" wall thickness, 3.12 lb./ft.)
Terminal Posts	2-7/8" O.D. Polyester Standard Weight Pipe (0.203" wall thickness, 5.79 lb./ft.)	2-7/8" O.D. Polyester Deluxe Quality (DQ) Pipe (0.160" wall thickness, 4.64 lb./ft.)

Gates

Fabric	Same Gauge and Mesh as Chain Link Selected
Frame	Same as Top Rail Selected

Fittings

Tension and Brace Bands	Polyester Coating, 3 Mils Minimum, Over Hot-Dipped Galvanized Pressed Steel
Caps, Eye Tops, Rail Ends	Polyester Coating, 3 Mils Minimum, Over Hot-Dipped Galvanized Pressed Steel or Aluminum
Sleeves	Polyester Coating, 3 Mils Minimum, Over Hot-Dipped Galvanized Steel
Tie Wires	Polyester Coating, 3 Mils Minimum, Over Zinc-Coated Steel Wire

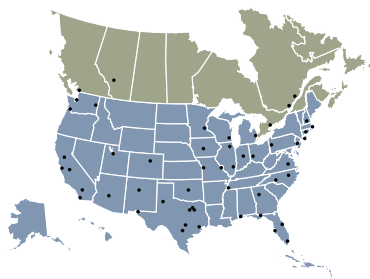
Slats - Privacy

Material Composition	Polyethylene Thermoplastic
Colors	Green, Black, Brown, Gray, Redwood, Blue, Desert Sand

MasterHalco.com | 888-MH-Fence

Branch service centers are located throughout North America.

MH Digital ©9/18



Available from:



ROOTZONE DIAMOND BLEND OPS



Today's premiere baseball and softball surface, Diamond Series, handles ball bounce like a natural grass field in every area of performance - outfield, infield and base paths. And this can be custom tailored to any coach or facility specifications for speed or bounce.

Diamond Series fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years. Outfield, infield, base paths, pitcher's mound, batters' boxes and warning tracks are each surfaced with unique AstroTurf products designed specifically to replicate natural field playability.

This product features three unique fibers - slit film fibers for durability, TRIONIC monofilament fibers for aesthetics and RootZone fibers for playability. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill - dramatically reducing infill spray during play and infill migration over time. With a RootZone, hops and slaps are more natural because the ball is less susceptible to interference from sand/rubber splash and fly-out. Fewer divots are seen than on other synthetic fields.

Plus, this system now includes the exciting new TRIONIC monofilament fiber as a standard feature. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability.

It's all about the bounce.

"We couldn't be more pleased with AstroTurf Diamond Series for our baseball field. The follow up and service after the completion is second to none. We're happy to be a part of the AstroTurf family."

Ryan Folmar, Head Baseball Coach, Oral Roberts University

ROOTZONE DIAMOND BLEND OPS

The RootZone Diamond Blend OPS product is used for the grass portions of baseball and softball fields.



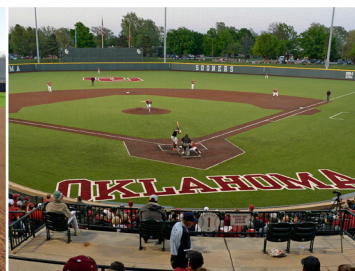
- ◆ Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- ◆ Trionic monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- ◆ Extremely durable slit film fibers for resistance to wear
- ◆ Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- ◆ RootZone infill stabilization system
- ◆ Multi-layer woven primary backing
- ◆ The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory



Northwestern University - Evanston, IL



University of Michigan - Ann Arbor, MI



University of Oklahoma - Norman, OK



Washington State University - Pullman, WA

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Polyethylene/Nylon blend Monofilament, Polyethylene Slit Film and RootZone	N/A
Yarn Denier	15,800 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/675 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	Field Green, Lime Green	None
Construction	Tufted	None
Turf Density	936 oz/yd ³	HUD 44d
Gauge	3/8"	D-5793
Primary Backing	8 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	80 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Baseball Installations:

Abilene Christian University (TX)
 Ball State University (IN)
 Dallas Baptist University (TX)
 University of Delaware (DE)
 Eastern Michigan University (MI)
 University of Iowa (IA)
 University of Michigan (MI)
 Northwestern University (IL)
 University of Oklahoma (OK)
 Oral Roberts University (OK)

University of Portland (OR)
 University of Richmond (VA)
 Sam Houston State University (TX)
 University of San Francisco (CA)
 Seattle University (WA)
 Southern Illinois University (IL)
 Washington State University (WA)
 Western Kentucky University (KY)
 West Virginia University (WV)

Softball Installations:

Abilene Christian University (TX)
 Ball State University (IN)
 Liberty University (VA)
 University of Michigan (MI)



Note: 1.31.19 SS. Valid through 12/31/2019. Any change from the specified values is considered a special product that will require confirmation from manufacturing prior to ordering. All values are ± 5%. AstroTurf® has the right to modify technical specifications on the above-mentioned product. Delivered products can slightly differ from the technical data. AstroTurf® guarantees the technical quality of the proposed article.



2680 Abutment Rd, Dalton, GA 30721
 (800) 723-TURF help@astroturf.com
 www.astroturf.com @AstroTurfUSA



ROOTZONE DIAMOND-i OPS



Today's premiere baseball and softball surface, Diamond Series handles ball bounce exactly like a natural grass field in every area of performance - outfield, infield and base paths. And this can be custom tailored to any coach or facility specifications for speed or bounce.

Diamond Series fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years. Outfield, infield, base paths, pitcher's mound, batters' boxes and warning tracks are each surfaced with unique AstroTurf products designed specifically to replicate natural field playability.

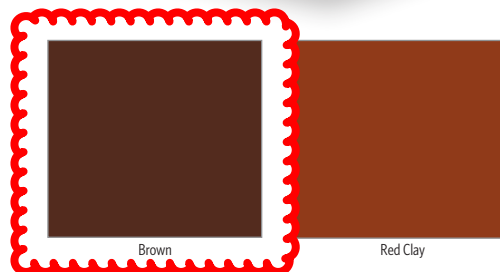
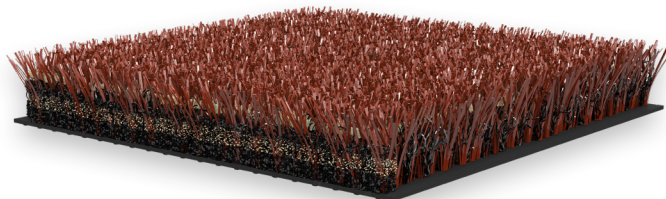
This product features unique fibers - diamond-shaped polyethylene face fibers, diamond-shaped nylon face fibers and nylon RootZone fibers. The use of nylon in this area of the field is critical and sets AstroTurf's Diamond Series apart. Not only does it boost longevity for some of the most heavily used areas in all of sports, it also creates more realistic sliding distances.

The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill - dramatically reducing infill spray during play and infill migration over time. With a RootZone, hops and slaps are more natural because the ball is less susceptible to interference from sand/rubber splash and fly-out. Fewer divots are seen than on other synthetic fields.

It's all about the bounce.

ROOTZONE DIAMOND-i OPS

The RootZone Diamond-i OPS product is used to replicate clay on baseball and softball fields.



"Our new facility has been outstanding for many reasons. With such a great playing surface we are able to utilize our practice time much better and we don't have rainouts. It has been great for recruiting."

Jim Sherman, Head Coach, University of Delaware

- ◆ Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- ◆ Diamond-shaped PE and Nylon face fibers that are designed to lay over and replicate clay
- ◆ Nylon adds durability and realistic sliding distances
- ◆ Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting

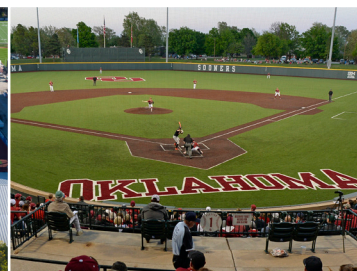
- ◆ Nylon RootZone infill stabilization system
- ◆ Multi-layer woven primary backing
- ◆ The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- ◆ Infill mixtures specifically designed to play like clay



Midwestern State University - Wichita Falls, TX



Northwestern University - Evanston, IL



University of Oklahoma - Norman, OK



Washington State University - Pullman, WA

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Diamond Polyethylene/Nylon twisted Monofilament and Nylon RootZone	N/A
Yarn Denier	16,600 (10 ends/1,060 per end for Mono, 8 ends/750 denier per end for RootZone)	D-1577
Yarn Thickness	241 microns for Mono, 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	Red Clay, Brown	None
Construction	Tufted	None
Turf Density	1,248 oz/yd ³	HUD 44d
Gauge	3/8"	D-5793
Primary Backing	8 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	80 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F PE / 428° F Nylon	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:
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Abilene Christian University (TX)
 Ball State University (IN)
 Dallas Baptist University (TX)
 University of Delaware (DE)
 Eastern Michigan University (MI)
 University of Iowa (IA)
 University of Michigan (MI)
 Northwestern University (IL)
 University of Oklahoma (OK)
 Oral Roberts University (OK)

University of Portland (OR)
 University of Richmond (VA)
 Sam Houston State University (TX)
 University of San Francisco (CA)
 Seattle University (WA)
 Southern Illinois University (IL)
 Washington State University (WA)
 Western Kentucky University (KY)
 West Virginia University (WV)

Softball Installations:

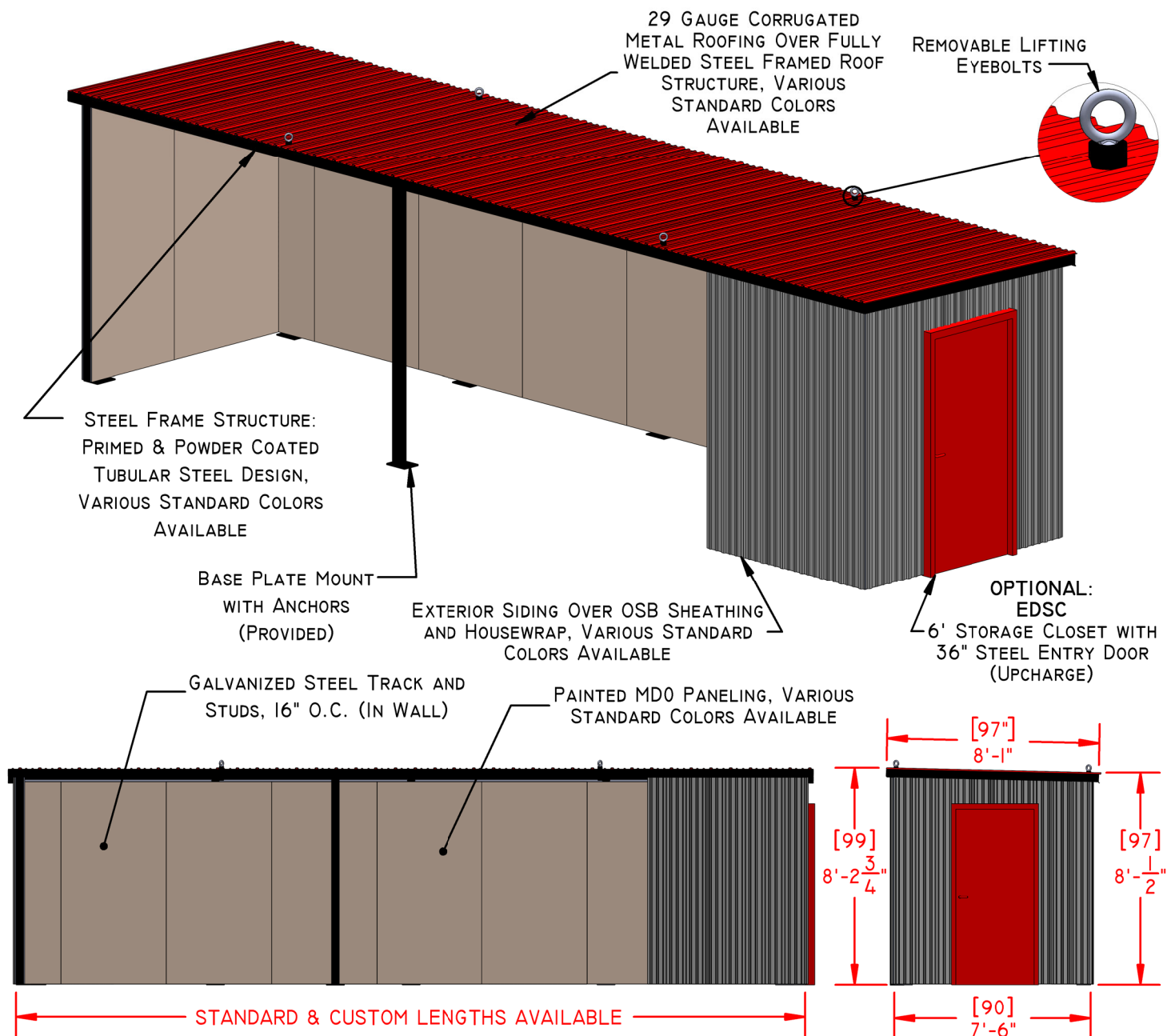
Abilene Christian University (TX)
 Ball State University (IN)
 Liberty University (VA)
 University of Michigan (MI)



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 www.astroturf.com @AstroTurfUSA



STANDARD PART #'S:

ED8X24 (LG-ED-08X24-I30) - 8'W x 24'L
 ED8X32 (LG-ED-08X32-I30) - 8'W x 32'L
 ED8X40 (LG-ED-08X40-I30) - 8'W x 40'L
 ED8X48 (LG-ED-08X48-I30) - 8'W x 48'L

PESDO - PROFESSIONAL ENGINEER STAMP

STANDARD SIDING OPTIONS:

METAL SIDING
 SMARTSIDE® LAP SIDING

PROFESSIONALLY PRE-ENGINEERED TO MEET ASCE
 7-10 WIND RATING UP TO 140 MPH EXPOSURE C
 AND 60 PSF GROUND SNOW LOAD REQUIREMENTS

FOUNDATION REQUIREMENTS
 BASED ON LOCAL CODES
 AND SOIL CONDITIONS

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