

BIRD-X
SPECIFICATIONS
STAINLESS SPIKES® NEEDLE STRIPS

MANUFACTURER
BIRD-X, INC. MANUFACTURES STAINLESS SPIKES NEEDLE STRIPS USING POLYCARBONATE WITH UV INHIBITORS AND ST 302 HARD SURGICAL GRADE STAINLESS, RESISTANT TO VIRTUALLY ALL WEATHER AND HARSH ENVIRONMENTS.

PRODUCT DESCRIPTION
NEEDLE STRIPS ARE A SIMPLE, HUMANE, MAINTENANCE-FREE, LONG-TERM SOLUTION TO PEST BIRD PROBLEMS, AND HAVE BEEN USED ON BUILDINGS AND STRUCTURES WORLDWIDE TO ELIMINATE ROOSTING AND NESTING SURFACES AND LANDING STRIPS. BIRDS AVOID ALIGHTING ON THE SPIKES AS HUMANS AVOID WALKING ON A BED OF NAILS - THE SPIKES ARE NOT LETHAL - JUST EXTREMELY UNCOMFORTABLE.

STAINLESS SPIKES HAVE A BASE MOLD OF TRANSPARENT POLYCARBONATE WITH TWO TYPES OF SPIKED PROJECTIONS: STAINLESS STEEL PROJECTIONS THAT PROTRUDE UP AND OUT (ANGLED) TO BOTH SIDES, AND A CENTRAL ROW OF POLYCARBONATE PROJECTIONS THAT PROTRUDE STRAIGHT UP. THERE ARE THREE VARIATIONS:

REGULAR: ALTERNATES **WIDE** STAINLESS STEEL PROJECTIONS (4.5" SPREAD) WITH **NARROW** STAINLESS STEEL PROJECTIONS (2.5" SPREAD) AND A CENTRAL ROW OF **STRAIGHT-UP** POLYCARBONATE PROJECTIONS. SIXTY (60) SPIKES PER 2-FOOT SECTION.
SLIM: HAS ONLY THE **NARROW** STAINLESS STEEL PROJECTIONS (1.75" SPREAD) IN ORDER TO COVER LEDGES LESS THAN 2" WIDE, PLUS A CENTRAL ROW OF **STRAIGHT-UP** POLYCARBONATE PROJECTIONS. THIRTY-SIX (36) SPIKES PER 2-FOOT SECTION.
EXTRA-WIDE: ALTERNATES **WIDE** STAINLESS STEEL PROJECTIONS (3.75" SPREAD) WITH **EXTRA-WIDE** (7.5" SPREAD), PLUS A CENTRAL ROW OF **STRAIGHT-UP** POLYCARBONATE PROJECTIONS. SIXTY (60) SPIKES PER 2-FOOT SECTION.

STAINLESS SPIKES NEEDLE STRIPS CAN BE INSTALLED USING BIRD-X SPIKES SPECIAL ADHESIVE, STEEL SCREWS, WOOD SCREWS, OR NAILS - DEPENDING ON THE SURFACE.

STAINLESS SPIKES NEEDLE STRIPS ARE THE INDUSTRY STANDARD ON PUBLIC AND PRIVATE RFPs. WITH A FLEXIBLE BASE, INSTALLATION IS EASY - EVEN ON CURVED SURFACES. STAINLESS SPIKES WON'T CORRODE OR DECAY. IF INSTALLED PROPERLY, THEY ARE LONG-LASTING AND REQUIRE LITTLE-TO-NO MAINTENANCE.

SUPPORT
BIRD-X HAS THE MOST KNOWLEDGEABLE AND EXPERIENCED SALES CONSULTANTS IN THE INDUSTRY. FROM INITIAL BIDDING, CUSTOM CONSULTATIONS, PRODUCT RECOMMENDATIONS, AND INSTALLER REFERRALS - BIRD-X IS PREPARED TO ASSIST WITH PROJECT EVALUATIONS. CALL 1.800.662.5021 OR EMAIL SOLUTIONS@BIRD-X.COM FOR MORE INFORMATION.

A. GENERAL

1. SUMMARY
a. INSTALL STAINLESS SPIKES NEEDLE STRIPS TO PREVENT PEST BIRDS FROM LANDING, PERCHING OR ROOSTING WHEREVER THE SPIKES ARE APPLIED. THEY MAKE SURFACES UNCOMFORTABLE, UNINVITING AND INTIMIDATING TO PEST BIRDS.
STAINLESS SPIKES ARE SAFE, NON-TOXIC, NON-HARMFUL, HUMANE AND ECO-FRIENDLY.

2. QUALITY ASSURANCE

a. OBTAIN ALL TECHNICAL INFORMATION, CONSULTATIVE SERVICES, PRODUCTS AND ACCESSORIES FROM ONE MANUFACTURER.
b. OBTAIN BIRD-X FRENCHMOLD INSTALLERS IN YOUR AREA TO ENSURE EXPERIENCE, KNOWLEDGE OF THE PRODUCTS, CERTIFICATION, AND INSURANCE COVERAGE.

3. SUBMITTALS

a. SUBMIT MANUFACTURER'S DESCRIPTIVE MATERIAL INCLUDING SAMPLES, LITERATURE, CATALOGS, PRODUCT SPECIFICATIONS, AND INSTALLATION INSTRUCTIONS.
b. PROVIDE WARRANTY ON PRODUCTS AND INSTALLATION.
c. PROVIDE PROOF OF PROFESSIONAL INSTALLATION CERTIFICATION AND INSURANCE.

4. PRODUCT HANDLING

a. PROTECT STAINLESS SPIKES NEEDLE STRIPS FROM DAMAGE BEFORE, DURING AND AFTER INSTALLATION.
b. IF DAMAGE OCCURS TO STAINLESS SPIKES NEEDLE STRIPS AT ANY TIME, REPLACE THE PRODUCT AS SOON AS POSSIBLE.

5. WARRANTY

a. STAINLESS SPIKES NEEDLE STRIPS ARE WARRANTED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR 5 YEARS FROM THE SHIPPING DATE. BIRD-X WILL EITHER REPLACE OR REPAIR THE DEFECTIVE MATERIAL.

B. PRODUCTS

1. ACCEPTABLE MANUFACTURER

a. BIRD-X, INC.
300 N OAKLEY BLVD.
CHICAGO, IL 60612
PHONE: 800.662.5021 OR 312.226.2473
FAX: 312.226.2480
EMAIL: SOLUTIONS@BIRD-X.COM
WEBSITE: WWW.BIRD-X.COM

2. MODEL DESIGNATION

a. STAINLESS SPIKES NEEDLE STRIPS REGULAR
b. STAINLESS SPIKES NEEDLE STRIPS NARROW
c. STAINLESS SPIKES NEEDLE STRIPS EXTRA-WIDE

3. MATERIAL

a. STAINLESS SPIKES NEEDLE STRIPS REGULAR
POLYCARBONATE WITH UV INHIBITORS, AND ST 302 HARD SURGICAL GRADE STAINLESS; RESISTANT TO VIRTUALLY ALL WEATHER AND HARSH ENVIRONMENTS; BASE MOLD OF TRANSPARENT POLYCARBONATE.
NUMBER OF SPIKES PER 2-FOOT SECTION: 60
HIGHEST POINT: 4.3"
BASE WIDTH: 0.5"
TOP WIDTH: 4.5"
b. STAINLESS SPIKES NEEDLE STRIPS NARROW
POLYCARBONATE WITH UV INHIBITORS, AND ST 302 HARD SURGICAL GRADE STAINLESS; RESISTANT TO VIRTUALLY ALL WEATHER AND HARSH ENVIRONMENTS; BASE MOLD OF TRANSPARENT POLYCARBONATE.
NUMBER OF SPIKES PER 2-FOOT SECTION: 36
HIGHEST POINT: 4.3"
BASE WIDTH: 0.5"
TOP WIDTH: 1.75"
c. STAINLESS SPIKES NEEDLE STRIPS EXTRA-WIDE
POLYCARBONATE WITH UV INHIBITORS, AND ST 302 HARD SURGICAL GRADE STAINLESS; RESISTANT TO VIRTUALLY ALL WEATHER AND HARSH ENVIRONMENTS; BASE MOLD OF TRANSPARENT POLYCARBONATE.
NUMBER OF SPIKES PER 2-FOOT SECTION: 60
HIGHEST POINT: 4.3"
BASE WIDTH: 0.5"
TOP WIDTH: 7.5"

4. MOUNTING SYSTEMS

a. BIRD-X BIRD SPIKES SPECIAL ADHESIVE - FOR SURFACES WHERE SCREWS OR NAILS ARE NOT PREFERRED
b. SCREWS - #12 FLAT PHILIPS-HEAD SCREWS
c. NAILS - 1/8" NAILS
d. WIRE TIES - FOR CABLING, PIPING AND THIN RAILINGS
e. CLAMPS OR VELCRO® - FOR TEMPORARY INSTALLATIONS

C. EXECUTION

1. EXAMINATION

a. EXAMINE THE INSTALLATION AREA. NOTIFY ARCHITECT OR CONTRACTOR OF ANY HAZARDOUS OR DETRIMENTAL WORK CONDITIONS.
b. DO NOT PROCEED UNTIL WORK CONDITIONS HAVE BEEN CORRECTED.

2. SURFACE PREPARATION

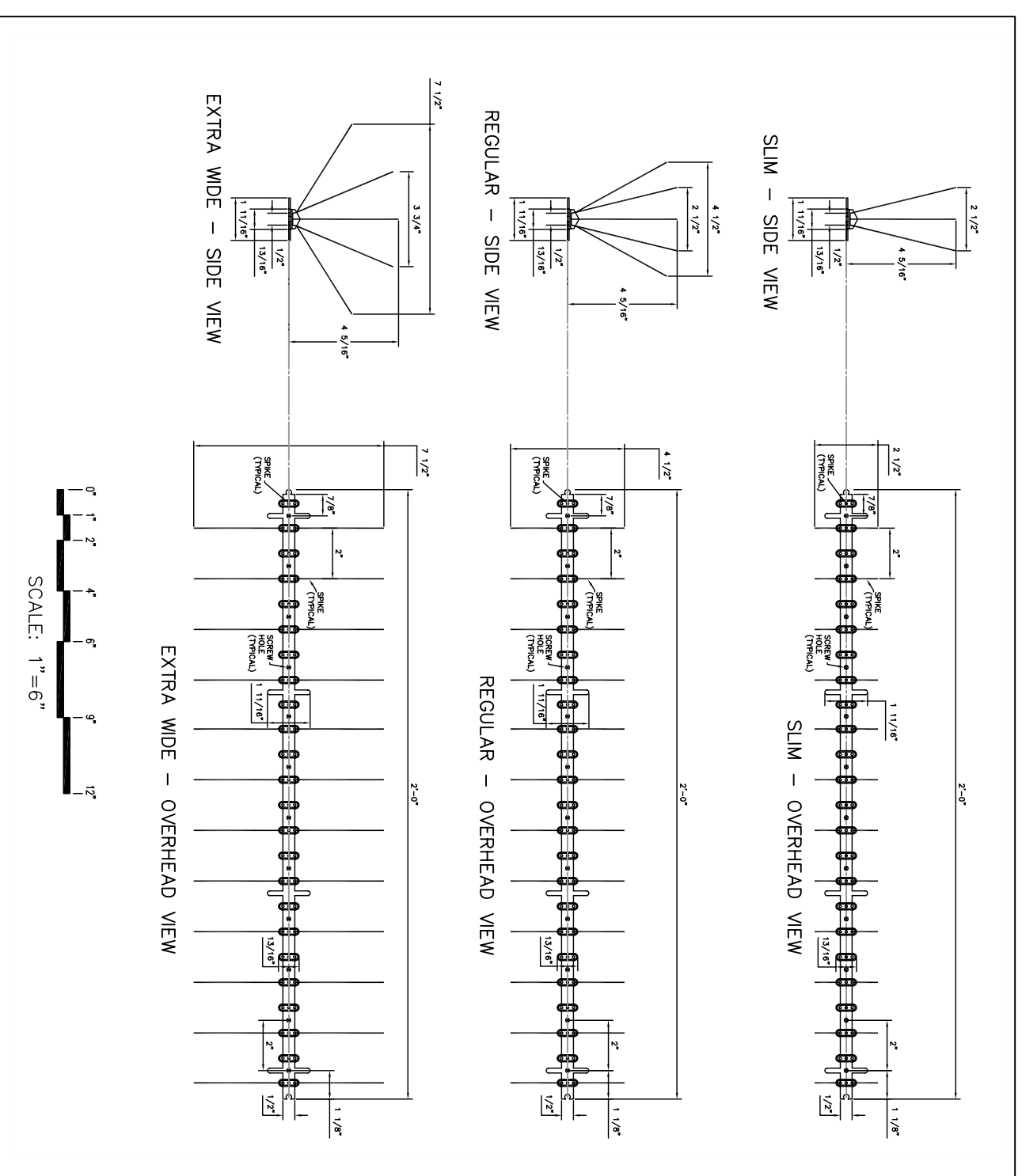
a. SURFACES SHOULD BE INSPECTED AND CLEANED BEFORE BEGINNING INSTALLATION.
b. REMOVE DEBRIS AND MAKE REPAIRS AS NECESSARY - FALLEN TREE BRANCHES, BRUSH, PEELING PAINT, LOOSE PARTS, BUBBLE, RUST, ETC.
c. USE BIRD-X SAFETY SOLVENT TO CLEAN AND REMOVE BIRD DROPPINGS AND OTHER RESIDUE FROM SURFACES.
d. MAKE SURE SURFACES ARE DRY BEFORE INSTALLATION.

3. INSTALLATION

a. INSTALL STAINLESS SPIKES NEEDLE STRIPS ACCORDING TO THE BIRD-X INSTALLATION INSTRUCTIONS.
b. INSTALL BEFORE BIRD SEASON BEGINS - IT'S EASIER TO KEEP THE BIRDS AWAY THAN TO ROUTE THEM OUT ONCE THEY HAVE ALREADY ESTABLISHED A LIVING PATTERN.
c. MEASURE THE LENGTH OF EACH AREA TO BE COVERED, ALLOWING FOR CURVES OR BENDS IN THE SURFACE. BASED ON LENGTH (MULTIPLY LENGTH BY 2, 3 ETC., IF NECESSARY FOR WIDER WIDTHS) ORDER AN APPROPRIATE AMOUNT OF STAINLESS SPIKES. UNITS MAY BE "SHAPE" TO FIT LENGTHS LESS THAN 24".
d. BIRD-X SPIKES SPECIAL ADHESIVE - BOND ONLY TO DRY, CLEAN SURFACES, WHEN TEMPERATURE IS BETWEEN 32°F AND 120°F. APPLY A BEAD OF ADHESIVE TO UNDERSIDE OF BASE AND FIRMLY PRESS STAINLESS SPIKES ONTO SURFACE SO THAT IT MAKES SOLID CONTACT. ALLOW ADHESIVE TO DRY AND FORM A "NET" THROUGH THE HOLES IN THE BASE.
e. SCREWS - USE #12 FLAT PHILIPS-HEAD SCREWS AND A SCREWDRIVER WITH A SHAFT OF AT LEAST 4".
f. NAILS - USE 1/8" NAILS AND A NAIL SET.
g. WIRE TIES - RECOMMENDED FOR CABLING, PIPING, AND THIN RAILINGS.
h. CLAMPS OR VELCRO® - USE FOR TEMPORARY INSTALLATIONS.

4. INSPECTION

a. VISUALLY INSPECT STAINLESS SPIKES NEEDLE STRIPS INSTALLATION FOR INADEQUATE ADHERENCE TO SURFACES, LOOSE SCREWS, OR INTERFERING DEBRIS.
b. MAKE ANY NECESSARY REPAIRS IMMEDIATELY.



BIRD-X, Inc.
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SCALE:	1" = 6"
DRAFTED:	4.13.12
SHEET	1 of 1

**SLIM, REGULAR, AND EXTRA WIDE
BIRD SPIKES DETAIL**