

# MUTO PLYWOOD

CEILING BAFFLE PRODUCT SPECIFICATION





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## ABOUT

With large open-concept floor plans and fast paced office culture comes noise. Is productivity and concentration an issue in your space? MUTO Plywood Baffles are your solution for ceilings that speak softly. From a single row or a ceiling filled with baffles, we can help you address your noise concerns and create a quieter environment.

Plywood core is Soelberg's solution for a multi-media rich baffle with high acoustic performance. Manufactured with a Baltic Birch Plywood core flanked by PET for increased rigidity, structure and optimal sound absorption, sound control just got a whole lot easier. Choose from standard profiles or explore options to create your own for a ceiling array with movement, color and the function your open office needs. Select from up to 19 different colorways or a combination of colors to design a ceiling that supports your brand or simply your design ideas.

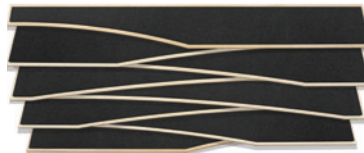
Each Plywood baffle comes with 2 attached universal hardware couplers (f) that attach to any 1/4" - 20 thread available in the industry for a quick-and-easy installation. Fasten directly to the deck or you can select suspension options that cater to your specific ceiling and installation needs. The universal coupler can easily be moved to accommodate specific installation variances for a 'no hassle' installation.

Shhh! Can you hear that? It's MUTO!

## PATTERNS



*Giro Ply*



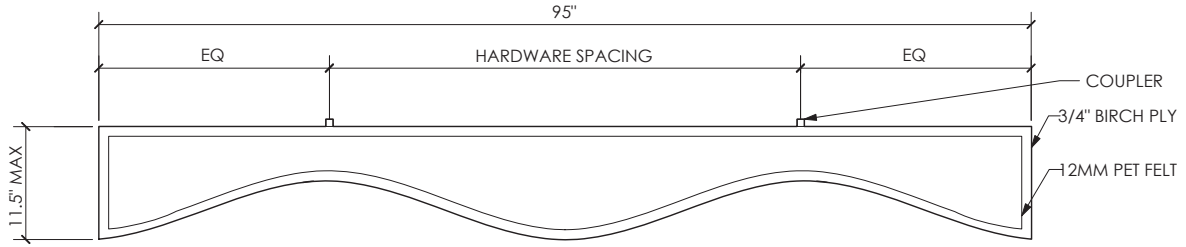
*Pinna Ply*



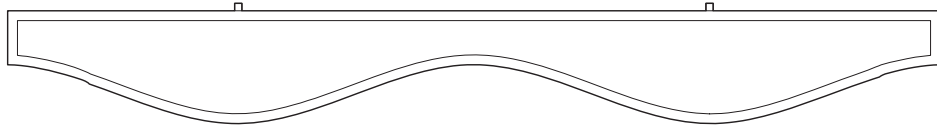
*Quadro Ply*

# GIRO PLY

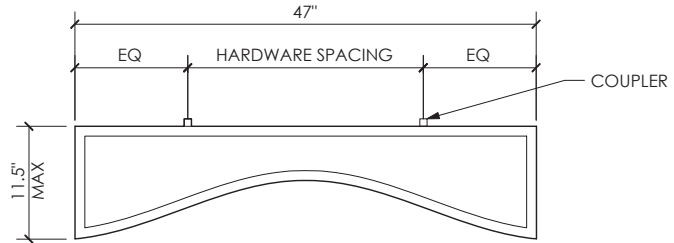
## BAFFLE SIZES AND DIMENSIONS



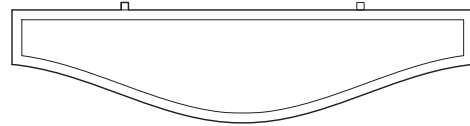
GIRO PLY 8' ELEVATION - FRONT  
PROFILE "A"



GIRO PLY 8' ELEVATION - FRONT  
PROFILE "B"



GIRO PLY 4' ELEVATION - FRONT  
PROFILE "AA"

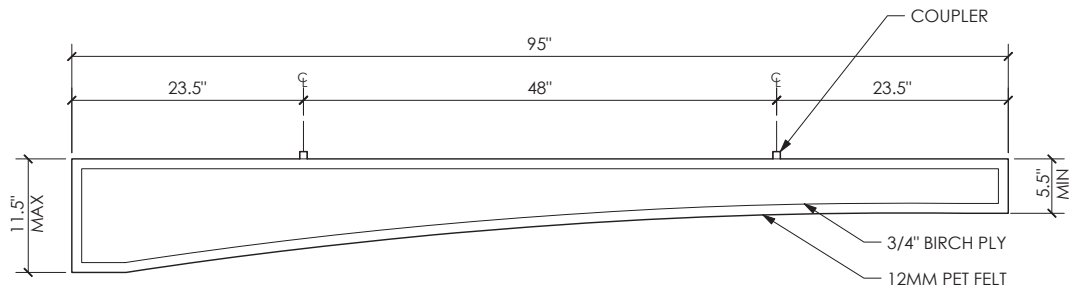


GIRO PLY 4' ELEVATION - FRONT  
PROFILE "BB"

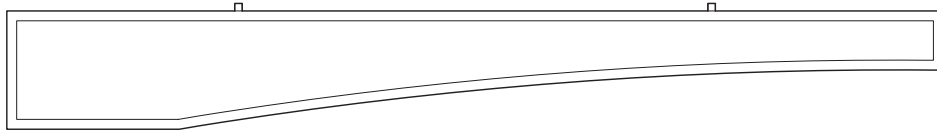
| STANDARD SIZES : GIRO PLY |        |                  |       |
|---------------------------|--------|------------------|-------|
| WIDTH                     |        | HARDWARE SPACING | DEPTH |
| NOMINAL                   | ACTUAL |                  |       |
| 8'                        | 95"    | 48"              | 11.5" |
| 4'                        | 47"    | 24"              | 11.5" |

# PINNA PLY

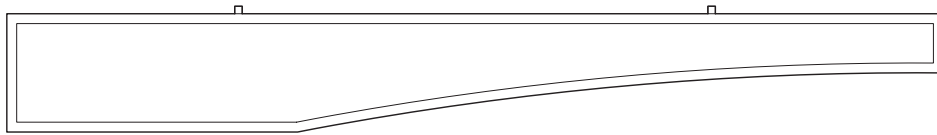
## BAFFLE SIZES AND DIMENSIONS



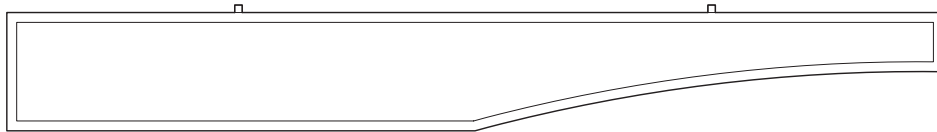
PINNA PLY 8' ELEVATION - FRONT  
PROFILE "A"



PINNA PLY 8' ELEVATION - FRONT  
PROFILE "B"



PINNA PLY 8' ELEVATION - FRONT  
PROFILE "C"

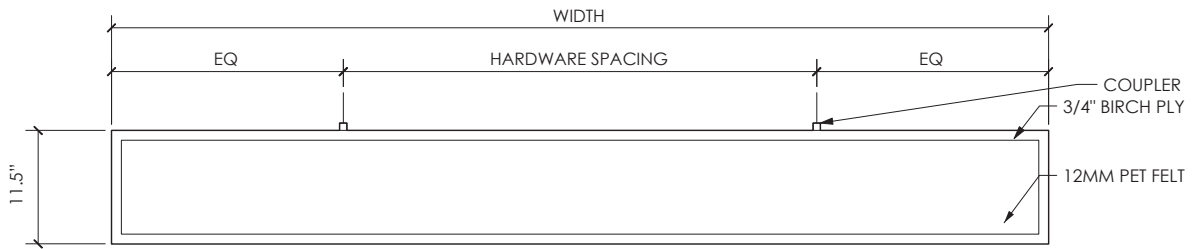


PINNA PLY 8' ELEVATION - FRONT  
PROFILE "D"

| STANDARD SIZES : PINNA PLY |        |                  |       |
|----------------------------|--------|------------------|-------|
| WIDTH                      |        | HARDWARE SPACING | DEPTH |
| NOMINAL                    | ACTUAL |                  |       |
| 8'                         | 95"    | 48"              | 11.5" |

# QUADRO PLY

## BAFFLE SIZES AND DIMENSIONS

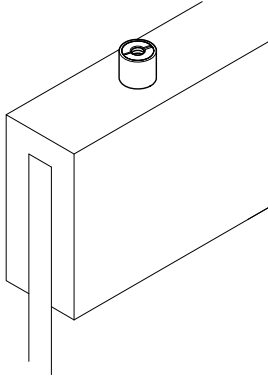


QUADRO PLY ELEVATION - FRONT  
95" x 11.5" SHOWN

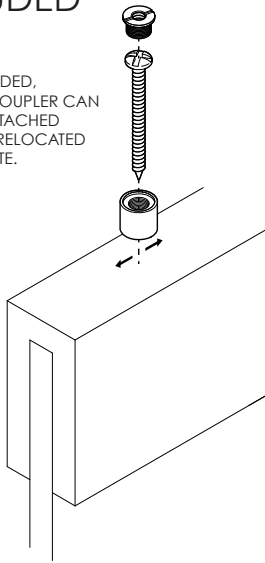
| STANDARD SIZES: QUADRO PLY |        |                  |                  |
|----------------------------|--------|------------------|------------------|
| WIDTH                      |        | HARDWARE SPACING | AVAILABLE DEPTHS |
| NOMINAL                    | ACTUAL |                  |                  |
| 8'                         | 95"    | 48"              | 11.5"            |
| 7'                         | 83"    | 48"              | 11.5"            |
| 6'                         | 71"    | 48"              | 11.5"            |
| 5'                         | 59"    | 48"              | 11.5"            |
| 4'                         | 47"    | 24"              | 11.5"            |

## UNIVERSIAL COUPLER INCLUDED

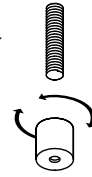
1/4"-20 THREADED COUPLERS ARRIVE INSTALLED ON EACH BAFFLE.



IF NEEDED, THE COUPLER CAN BE DETACHED AND RELOCATED ON-SITE.

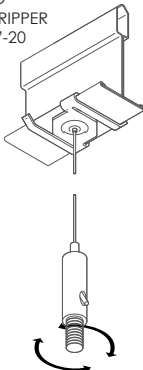


THE COUPLER CAN BE ATTACHED TO ANY 1/4"-20 THREADED SYSTEM. THIS INCLUDES A VARIETY OF CABLE GRIPPERS AND BOLTS.

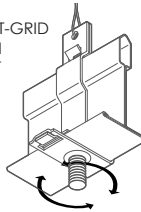


## HARDWARE ATTACHMENT BY OTHERS

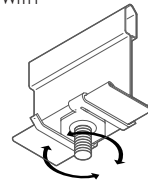
T-GRID TO CABLE GRIPPER WITH 1/4"-20



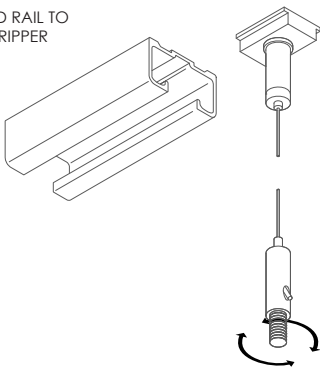
SUSPENDED T-GRID CLAMP WITH 1/4"-20 BOLT



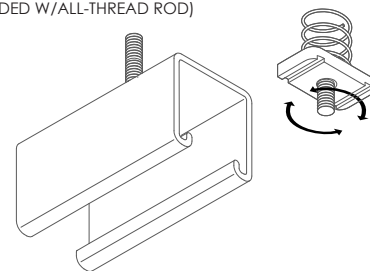
T-GRID CLAMP WITH 1/4"-20 BOLT



EXTRUDED RAIL TO CABLE GRIPPER



STRUT AND 1/4"-20 SPRING-NUT (SUSPENDED W/ALL-THREAD ROD)

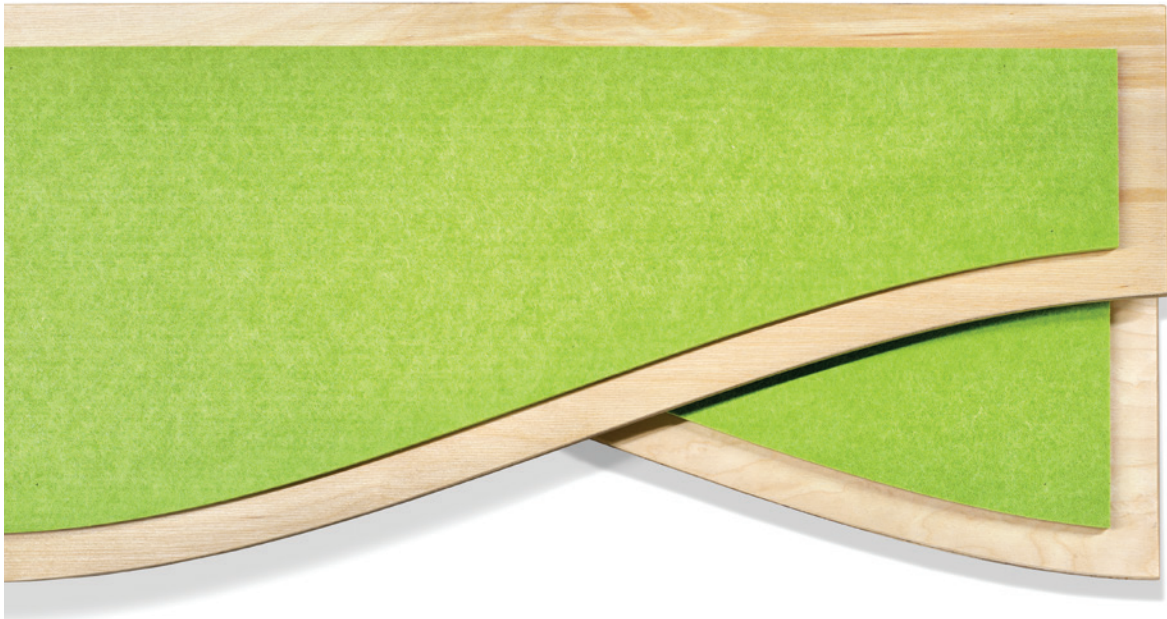


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## SPECIFICATIONS

|                        |  |
|------------------------|--|
| PRODUCT NAME           | PLYWOOD BAFFLE   |
| PATTERN NAMES          | GIRO PLY, PINNA PLY AND QUADRO PLY   |
| CONTENT                | 100% POLYESTER PET AND BALTIC BIRCH PLYWOOD CORE   |
| CORE THICKNESS         | +/- 0.5" (12 mm) and 0.75" (19 mm)   |
| BAFFLE THICKNESS       | +/- 1.75" (44 mm)  |
| STANDARD SIZES         | MINIMUM LENGTH: 48" (NOMINAL)<br>MAXIMUM LENGTH: 96" (NOMINAL)<br>DEPTH: 12" (NOMINAL)   |
| EDGE OPTIONS           | EXPOSED PET AND PLYWOOD  |
| DURABILITY             | CONTRACT   |
| HARDWARE               | 1/4" - 20 THREADED COUPLER (f)   |
| SUSPENSION OPTIONS     | CEILING MOUNTED<br>SUSPENSION CABLE<br>SUSPENSION ROD  |
| LEAD TIME              | 2-4 WEEKS  |
| MAINTENANCE            | VACUUM TO REMOVE DUST AND DEBRIS. COMPRESSED AIR CAN BE USED TO CLEAN HARD TO REACH AREAS. SPOT CLEAN IMMEDIATELY USING A DAMP CLOTH OR SOAP AND WATER. CARPET AND FABRIC CLEANERS MAY ALSO BE USED. (TEST IN AN INCONSPICUOUS AREA.)  |
| ENVIRONMENTAL          | PLYWOOD BAFFLES ARE PRODUCED FROM 100% RECYCLABLE PET WITH NO ADDED UREA FORMALDEHYDE. PLYWOOD BAFFLES ARE 100% PET / BALTIC BIRCH PLYWOOD AND CAN BE RECYCLED THROUGH THE NORMAL WASTE SYSTEM.  |
| VARIATION              | PET IS MADE WITH A 'FELTING' PROCESS WHICH RESULTS IN A TEXTURAL HEATHERED EFFECT WHERE THE FIBERS CONSIST OF MULTIPLE TONES AND SHADES. SLIGHT AND CONSISTENT VARIATION IN COLOR SHOULD BE EXPECTED. COLOR WILL VARY FROM DYE LOT. BALTIC BIRCH PLYWOOD CORE IS A NATURAL WOOD PRODUCT. KNOTTING, STRIPING, AND SHADING ARE NATURAL CHARACTERISTICS AND SHOULD BE EXPECTED. |
| ACOUSTICS              | ASTM C423 - 17: NRC 0.75 / 0.75 (SEE ACOUSTIC DATA)  |
| FIRE RATING            | ASTM - E84: CLASS A FIRE RATED   |
| COLORFASTNESS TO LIGHT | AATCC 16.3 OPTION 3 - THE COLOR CHANGE AT 20 AFU - 4.5   |
| APPLICATION            | INDOOR USE ONLY  |

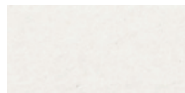




## COLORWAYS



White



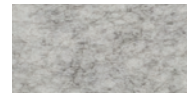
Bone



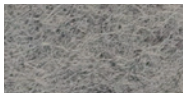
Oatmeal



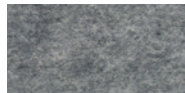
Camel



Cashmere



Fog



Nordic Knit



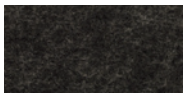
Lamb's Ear



Pewter



Winter Water



Graphite



Black



Midnight



Splash



Storm



Lichen



Sunshine

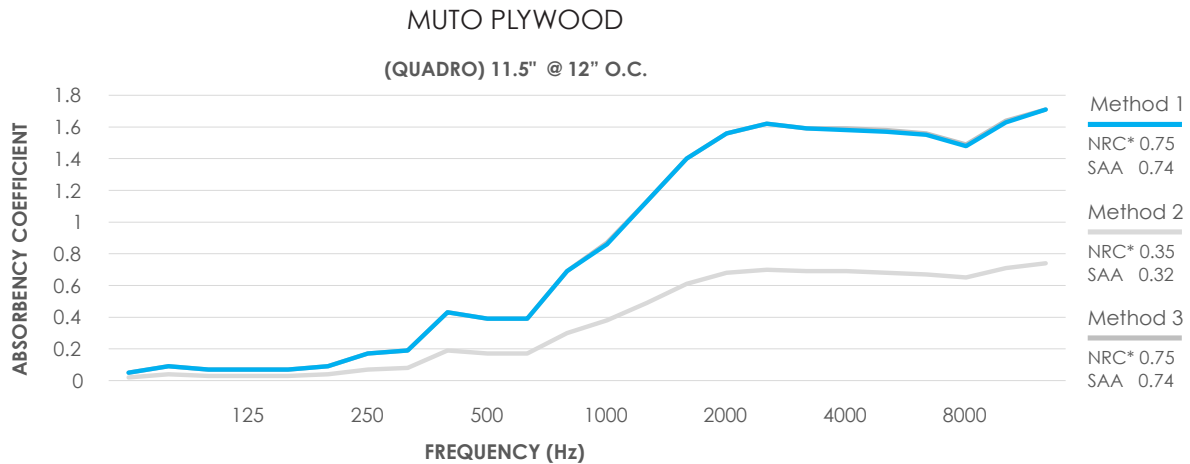


Clementine



Chili Pepper

# ACOUSTICS



## \*APPARENT NRC RATINGS

NRC values are typically used for flat surfaces of a given surface area, e.g. carpet or wall coverings. When testing hanging objects that are spread out, the 'Apparent NRC' is used.

## WHAT IS NRC?

NRC is an acronym for Noise Reduction Coefficient. This is a convenient single rating for assessing the absorbency of a material. This can be used to predict its efficacy for reducing reverberation within a room. NRC is the average absorption coefficient of 125 Hz, 250 Hz, 500 Hz and 1,000 Hz, rounded to the nearest 0.05.

## WHAT IS SAA?

SAA (Sound Absorption Average) is similar to an NRC rating. However, 12 values from 200 Hz – 2,500 Hz (1/3 octave intervals) are averaged and rounded to the nearest 0.01. This method is preferred by the acoustics community and is more representative of performance in the range of human speech.

## WHY NOT STC?

STC (Sound Transmission Class) is a value used to describe the amount of sound that passes through a barrier. This can be given to a material or an entire wall assembly. If you need to assess how well a barrier can block sound between rooms you'll need to know the STC rating. Acoustic baffles are not used to physically divide rooms, but rather to absorb noise within a room. Problematic noise in a room is called reverberation. This can manifest as a droning or a ringing sound when people are speaking, or in the worst case: an echo. For this reason, NRC or SAA are the appropriate rating systems for treating reverberation issues.

## WHY ARE THERE MULTIPLE METHODS?

There is no single standard method for calculating Apparent NRC for hanging baffles. The rating is taken from the performance of a sample of baffles at a given size and spacing over a given surface area of exposed material. However, the surface area used to calculate this is not standardized and will give different values.

Method 1 uses the surface area of the baffle array covering the ceiling. (9) 8'-0" wide baffles installed at 12" o.c. would give a surface area of 72 sf (plus the exposed bottom edge of the baffles).

Method 2 uses for the surface area of all sides of the baffles added together. This accounts for the entire exposed surfaces of each baffle. (9) 8'-0" wide by 12" deep and 1" thick baffles would give a surface area of 157.5 SF (17.5 SF per baffle).

Method 3 uses for the surface area of one side of the larger face of a baffle. (9) 8'-0" wide by 12" deep baffles would give a surface area of 72 SF (8 SF per baffle).