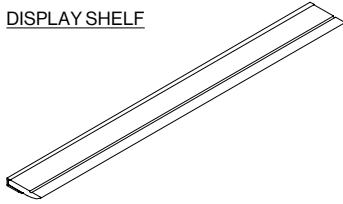
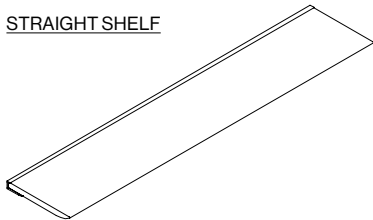
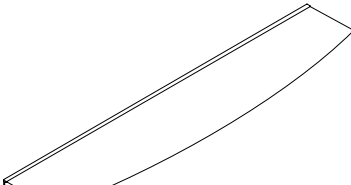
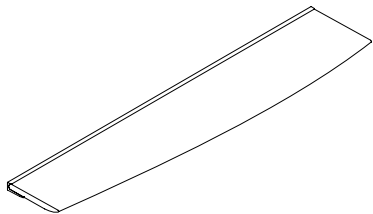


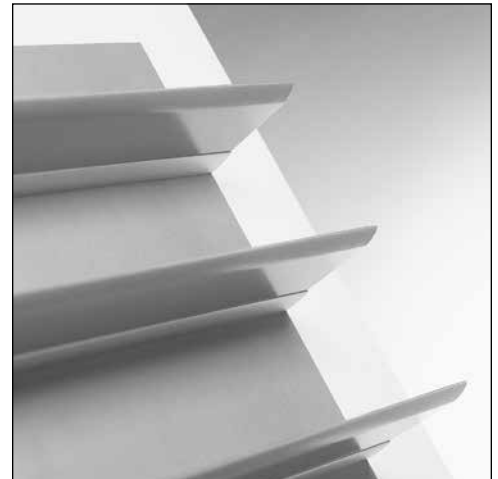
TANGENT SHELVING	312-324
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STANDARD FEATURES

Tangent shelves provide a unique and effective shelving solution. Key to the entire system is a strong, wall-mounted aluminum bracket. Along its length is a concealed "tooth" that corresponds to a groove in the bottom of the shelf. Simply ease the shelf into the bracket and rotate downward. The patented tooth and groove design will lock the shelf into place. Maximum shelf load capacity is 20 lbs. per linear foot, meaning a 4' shelf can accommodate up to 80 lbs. distributed evenly across its length. All shelves are available in standard Nienkämper wood veneers and stains. The standard finish for the anodized aluminum bracket is Clear. Refer to pages 10 & 13 for wood and aluminum finish options.

DISPLAY SHELFSTRAIGHT SHELFRADIUS SHELFASYMMETRICAL SHELF

Model Number	L"	x	D" x	H"	List Price
29210	36"		5 ³ / ₄ "	1 ³ / ₈ "	885
29211	48"		5³/₄"	1³/₈"	1,005
29212	60"		5 ³ / ₄ "	1 ³ / ₈ "	1,135
29213	72"		5³/₄"	1³/₈"	1,265
29214	84"		5 ³ / ₄ "	1 ³ / ₈ "	1,395
29215	96"		5³/₄"	1³/₈"	1,505
29220	36"		12 ¹ / ₂ "	1 ³ / ₈ "	935
29221	48"		12¹/₂"	1³/₈"	1,065
29222	60"		12 ¹ / ₂ "	1 ³ / ₈ "	1,210
29223	72"		12¹/₂"	1³/₈"	1,345
29224	84"		12 ¹ / ₂ "	1 ³ / ₈ "	1,485
29225	96"		12¹/₂"	1³/₈"	1,615
29230	36"	(11")	12 ¹ / ₂ "	1 ³ / ₈ "	1,090
29231	48"	(11")	12¹/₂"	1³/₈"	1,230
29232	60"	(11")	12 ¹ / ₂ "	1 ³ / ₈ "	1,370
29233	72"	(11")	12¹/₂"	1³/₈"	1,525
29234	84"	(11")	12 ¹ / ₂ "	1 ³ / ₈ "	1,655
29235	96"	(11")	12¹/₂"	1³/₈"	1,795
29240	36"	(11")	12 ¹ / ₂ "	1 ³ / ₈ "	1,090
29241	48"	(11")	12¹/₂"	1³/₈"	1,230
29242	60"	(11")	12 ¹ / ₂ "	1 ³ / ₈ "	1,370
29243	72"	(11")	12¹/₂"	1³/₈"	1,525
29244	84"	(11")	12 ¹ / ₂ "	1 ³ / ₈ "	1,655
29245	96"	(11")	12¹/₂"	1³/₈"	1,795



For installation and assembly see page 340.

TANGENT® SHELVES WITH WIRE SUPPORT

STANDARD FEATURES

Tangent shelves provide a unique and effective shelving solution. Key to the entire system is a strong, wall-mounted aluminum bracket. The addition of a diagonal wire support dramatically increases the capacity to carry a load. Once the wire assembly is installed into the wall and the shelf, the shelf is simply rotated into a concealed "tooth" along the aluminum rail that corresponds to a groove in the bottom of the shelf. Exact weight capacity depends on the wall construction and the method of installation. Refer to page 342 for load capacities.

All shelves are available in standard Nienkämper wood veneers and stains. The standard finish for the anodized aluminum bracket is Clear. The wire is stainless steel. Refer to pages 10 & 13 for wood and aluminum finish options.

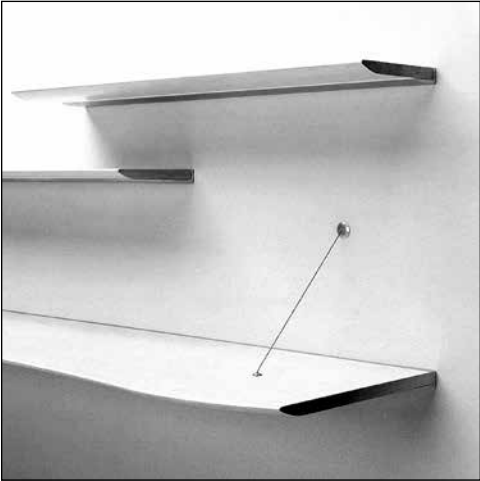
	Model Number	L" x D"	x H"	List Price
<u>STRAIGHT SHELF</u> 	29216	36" x 12½"	1⅜"	1,585
	29217	48" x 12½"	1⅜"	1,725
	29218	60" x 12½"	1⅜"	1,870
	29226	72" x 12½"	1⅜"	1,990
	29227	84" x 12½"	1⅜"	2,115
	29228	96" x 12½"	1⅜"	2,260

RADIUS SHELF

	29236	36" x (11") 12½"	1⅜"	1,740
	29237	48" x (11") 12½"	1⅜"	1,870
	29238	60" x (11") 12½"	1⅜"	1,995
	29246	72" x (11") 12½"	1⅜"	2,165
	29247	84" x (11") 12½"	1⅜"	2,285
	29248	96" x (11") 12½"	1⅜"	2,420

ASYMMETRICAL SHELF

	29266	36" x (11") 12½"	1⅜"	1,740
	29267	48" x (11") 12½"	1⅜"	1,870
	29268	60" x (11") 12½"	1⅜"	1,995
	29276	72" x (11") 12½"	1⅜"	2,165
	29277	84" x (11") 12½"	1⅜"	2,285
	29278	96" x (11") 12½"	1⅜"	2,420



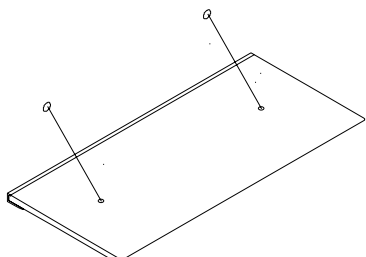
For installation and assembly see page 304.

STANDARD FEATURES

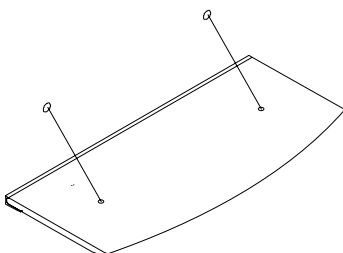
Tangent Work Surfaces provide a unique and effective surface that is considerably deeper than a Tangent Shelf. Great for a small work area where support legs are not an option. Tangent Work Surfaces include a diagonal wire support that allows suspension of the top as well as leveling. Maximum load capacity is 50 lbs. per linear foot. Once the wire assembly is installed into the wall and the work surface, the work surface is simply rotated into a concealed "tooth" along the aluminum rail that corresponds to a groove in the bottom of the shelf. Exact weight capacity depends on the wall construction and the method of installation. Refer to page 342 for load capacities.

All work surfaces are available in standard Nienkämper wood veneers and stains. The standard finish for the anodized aluminum bracket is Clear. The wire is stainless steel. Refer to pages 10 & 13 for wood and aluminum finish options.

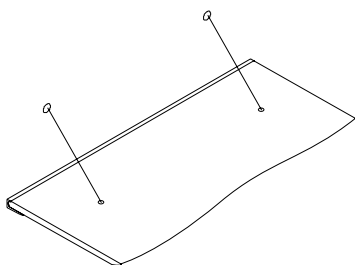
STRAIGHT WORK SURFACE



RADIUS WORK SURFACE



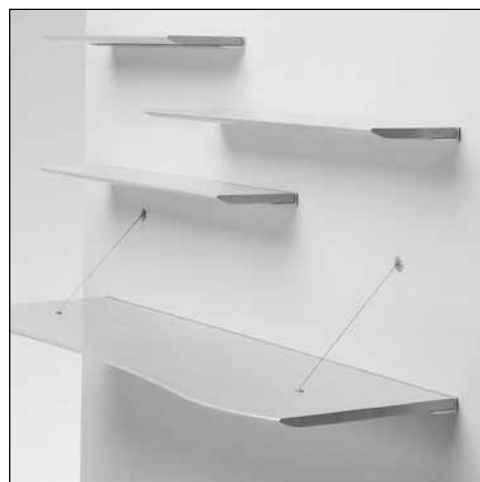
WAVE WORK SURFACE



Model Number	L" x D"	H"	List Price
29260	36" x 22"	1 ³ / ₈ "	1,975
29261	48" x 22"	1³/₈"	2,200
29262	60" x 22"	1 ³ / ₈ "	2,430
29263	72" x 22"	1³/₈"	2,665
29264	84" x 22"	1 ³ / ₈ "	2,870
29265	96" x 22"	1³/₈"	3,085

29270	36"	(20") 22"	1 ³ / ₈ "	2,165
29271	48"	(20") 22"	1³/₈"	2,380
29272	60"	(20") 22"	1 ³ / ₈ "	2,595
29273	72"	(20") 22"	1³/₈"	2,845
29274	84"	(20") 22"	1 ³ / ₈ "	3,055
29275	96"	(20") 22"	1³/₈"	3,270

29280	36"	(20") 22"	1 ³ / ₈ "	2,220
29281	48"	(20") 22"	1³/₈"	2,460
29282	60"	(20") 22"	1 ³ / ₈ "	2,675
29283	72"	(20") 22"	1³/₈"	2,930
29284	84"	(20") 22"	1 ³ / ₈ "	3,150
29285	96"	(20") 22"	1³/₈"	3,370

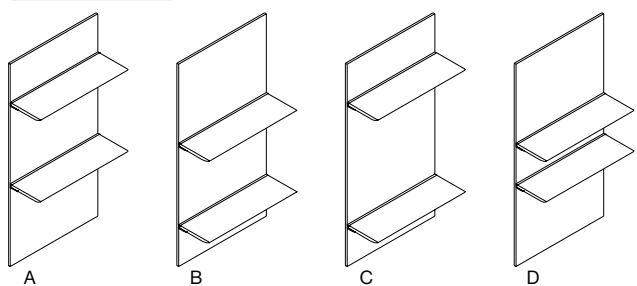
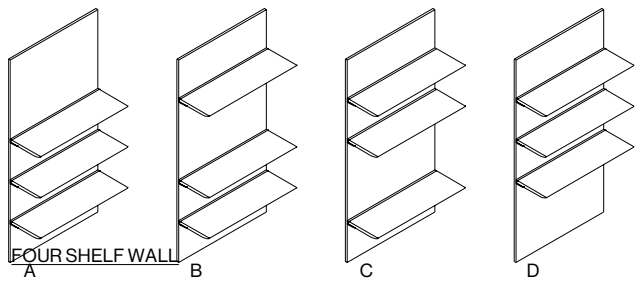
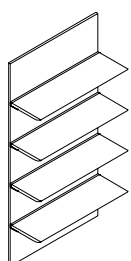


For installation and assembly see page 304.

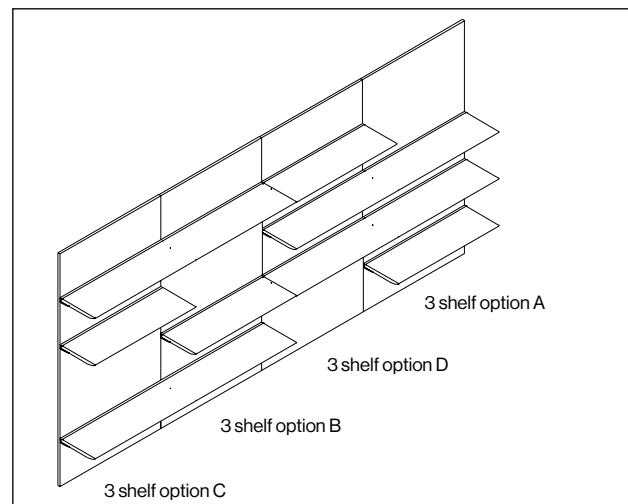
TANGENT® WALL SYSTEM

STANDARD FEATURES

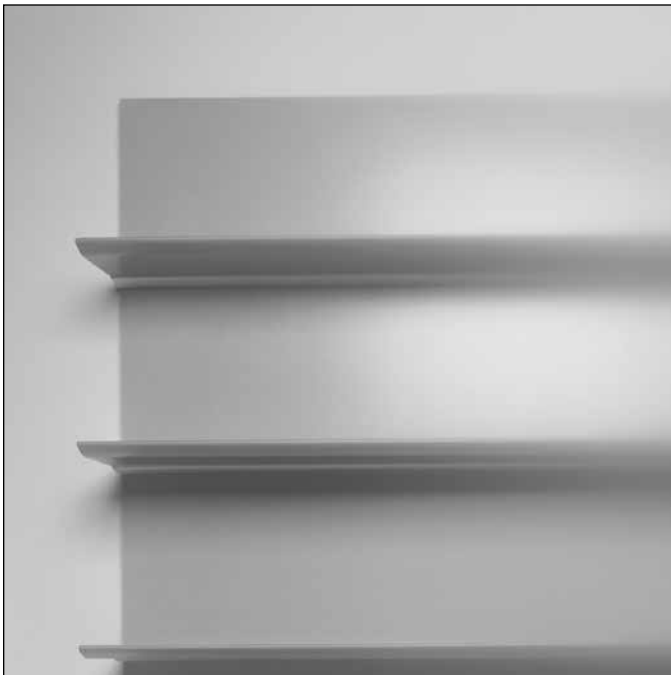
The Tangent Wall System provides the possibility for creating continuous walls of Tangent shelving. The wall panels come in 3 and 4 foot widths and can be joined in any combination with any number of shelves to create a landscape of shelving. As a boardroom, reception area or private office display or bookcase, the Tangent Wall System offers a wide range of possibilities. Because the reinforced wall is part of the system, this product has extremely high load capacities. When Tangent Wall Systems are combined, Nienkämper will automatically substitute full 6', 7' or 8' continuous shelving elements where possible thereby limiting the number of seams along any given assembly. All wall systems, including shelving, are available in standard Nienkämper wood veneers and stains. The standard finish for the anodized aluminum bracket is Clear. Refer to pages 10 & 13 for wood and aluminum finish options.

	Model Number	L" x D"	x	H"	List Price
TWO SHELF WALL 	29294-A	36"	14"	72"	3,455
	29294-B	36"	14"	72"	3,455
	29294-C	36"	14"	72"	3,455
	29294-D	36"	14"	72"	3,455
	29295-A	48"	14"	72"	4,130
	29295-B	48"	14"	72"	4,130
	29295-C	48"	14"	72"	4,130
	29295-D	48"	14"	72"	4,130
THREE SHELF WALL 	29292-A	36"	14"	72"	4,340
	29292-B	36"	14"	72"	4,340
	29292-C	36"	14"	72"	4,340
	29292-D	36"	14"	72"	4,340
	29293-A	48"	14"	72"	5,110
	29293-B	48"	14"	72"	5,110
	29293-C	48"	14"	72"	5,110
	29293-D	48"	14"	72"	5,110
FOUR SHELF WALL 	29290	36"	14"	72"	5,185
	29291	48"	14"	72"	6,080

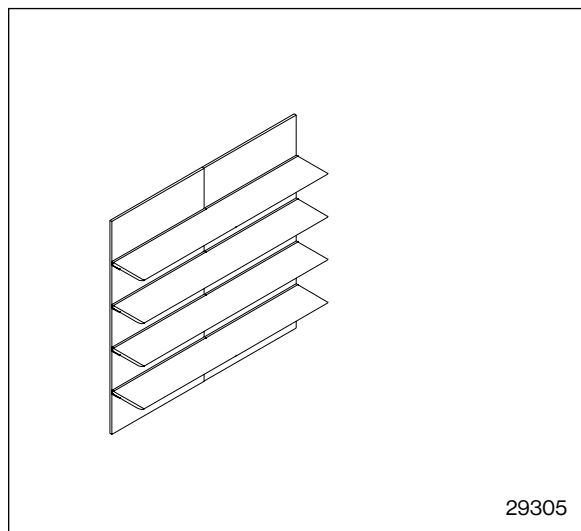
Combining elements creates continuous walls, see example below.



Tangent Shelves Mounted to Wall System



TANGENT® WALL SYSTEM LAYOUTS



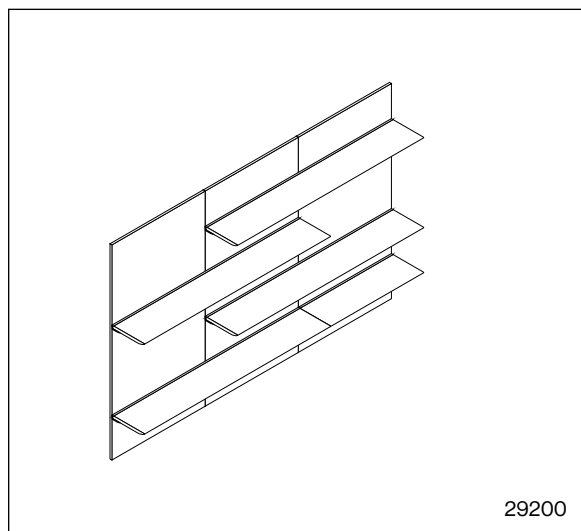
Model Number	Description	List Price
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32' of shelving on 8' of wall panels.

96" L x 14" D x 72" H

29305/1A	All Wood Clear Anodized Shelf Bracket	11,190
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29305/3A	All Natural MDF Clear Anodized Shelf Bracket	9,590
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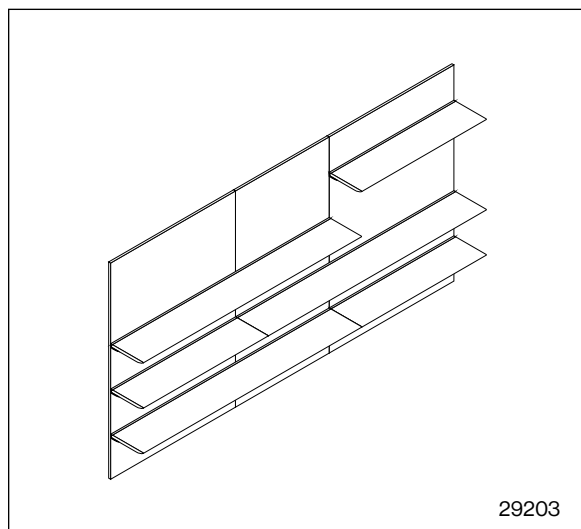


27' of shelving on 9' of wall panels.

108" W x 14" D x 72" H

29200/1A	All Wood Clear Anodized Shelf Bracket	10,950
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29200/3A	All Natural MDF Clear Anodized Shelf Bracket	9,795
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33' of shelving on 11' of wall panels.

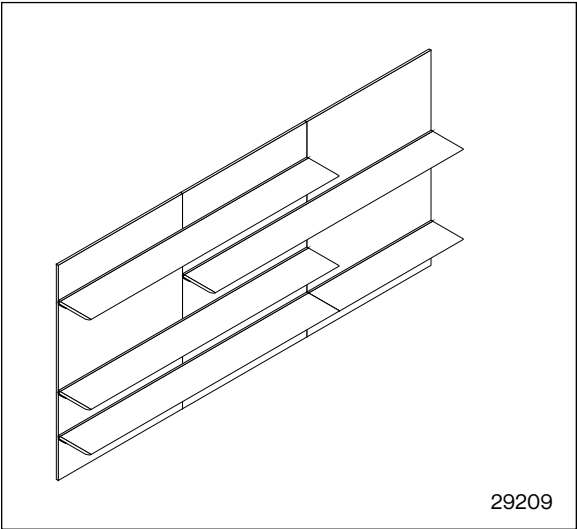
132" W x 14" D x 72" H

29203/1A	All Wood Clear Anodized Shelf Bracket	13,010
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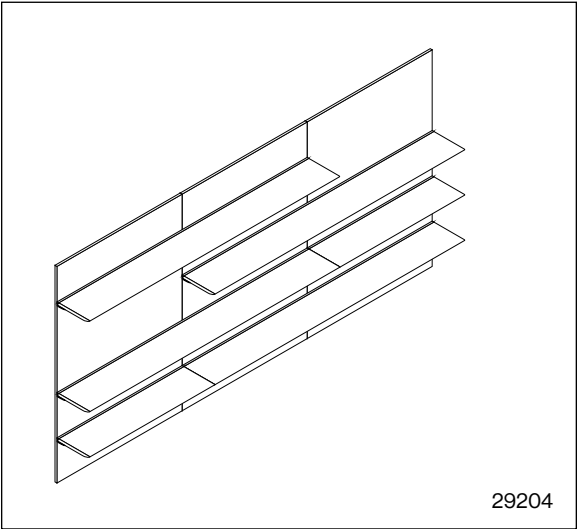
29203/3A	All Natural MDF Clear Anodized Shelf Bracket	11,360
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Note: shelf brackets are available in Clear, Champagne, Light Bronze, Bronze and Black anodized aluminum finishes (see page 13).

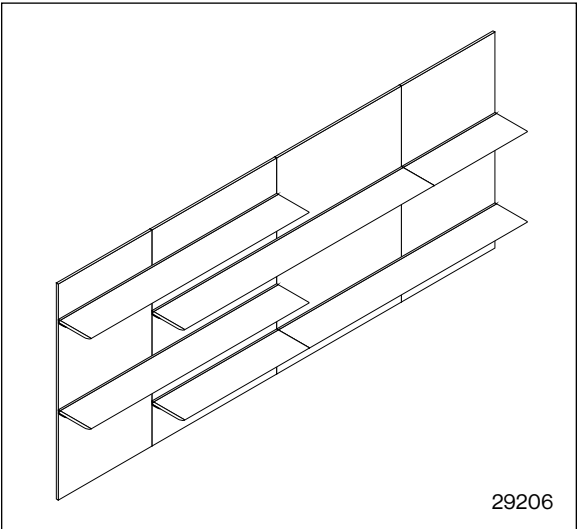
TANGENT® WALL SYSTEM LAYOUTS



Model Number	Description	List Price
36' of shelving on 12' of wall panels. 144" L x 14" D x 72" H		
29209/1A	All Wood Clear Anodized Shelf Bracket	13,290
29209/3A	All Natural MDF Clear Anodized Shelf Bracket	11,535



40' of shelving on 12' of wall panels. 144" L x 14" D x 72" H		
29204/1A	All Wood Clear Anodized Shelf Bracket	14,275
29204/3A	All Natural MDF Clear Anodized Shelf Bracket	12,350

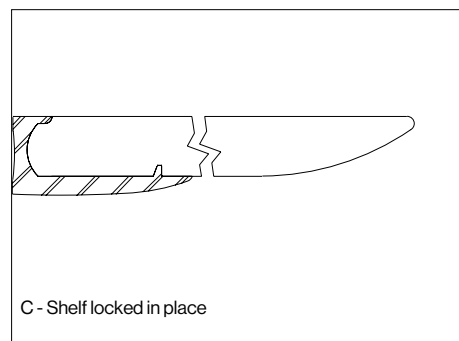
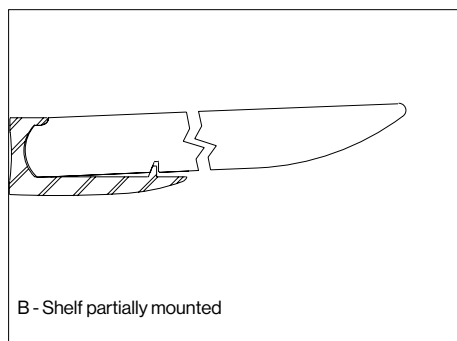
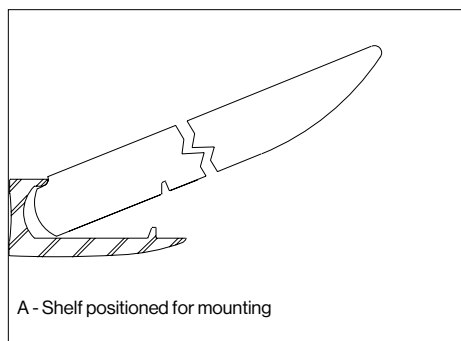


36' of shelving on 14' of wall panels. 168" L x 14" D x 72" H		
29206/1A	All Wood Clear Anodized Shelf Bracket	15,095
29206/3A	All Natural MDF Clear Anodized Shelf Bracket	13,260

Note: shelf brackets are available in Clear, Champagne, Light Bronze, Bronze and Black anodized finishes.

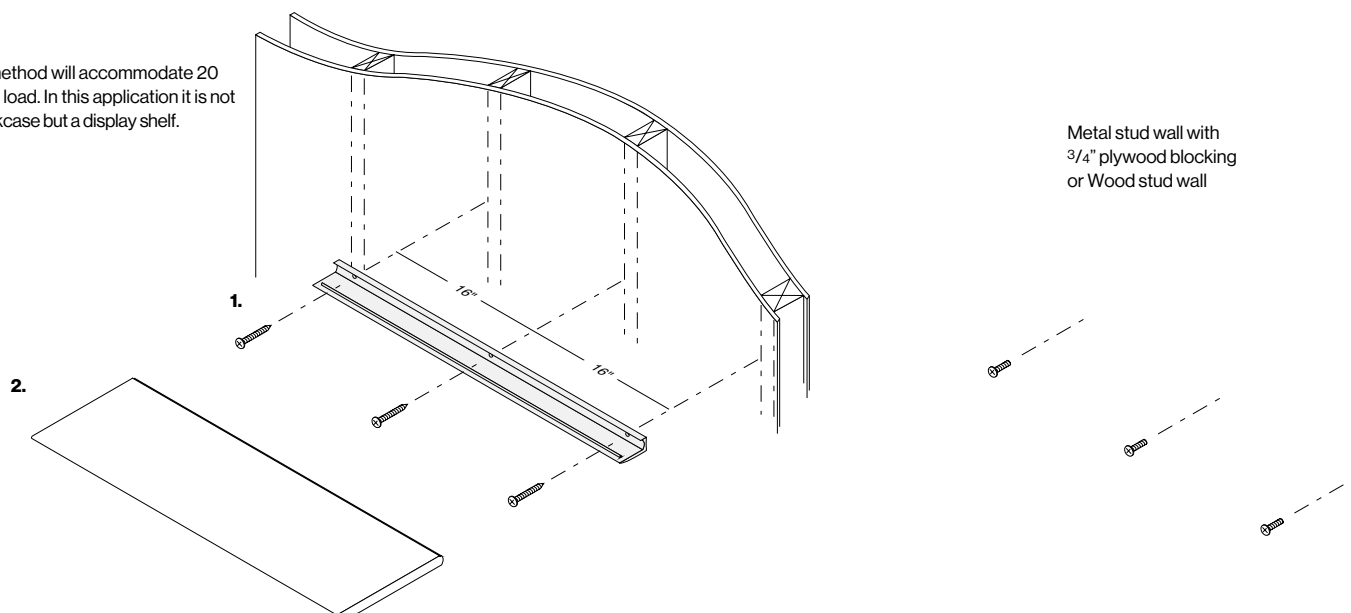
INSTALLATION

TANGENT® SHELVES



IMPORTANT!

This installation method will accommodate 20 lbs. per linear foot load. In this application it is not considered a bookcase but a display shelf.



Installation for metal stud walls

1. Shelving extrusion attaches through drywall to plywood blocking with supplied (1³/₄" #10) Torx head wood screws.
2. Shelf inserts into extrusion at an angle then drops into position, see drawings A - C.

Installation for wood stud walls

1. Shelving extrusion attaches to wooden wall studs with supplied (2³/₄" #10) wood screws. A 1/8" pilot hole must be drilled before inserting screws.
2. Shelf inserts into extrusion at an angle then drops into position, see drawings A - C.

Important!

For best results, plywood blocking is recommended for new construction.