

GUSTAFS LINEAR SYSTEM

GUSTAFS 
DESIGNED FOR EYES AND EARS

CEILING *GUSTAFS LINEAR RIB*

A RIB WITH MANY UNIQUE BENEFITS

Our products are based on a fibre gypsum core which has very good properties regarding both fire safety and acoustics. The gypsum rib is less sensitive to changes in temperature and humidity which in turn maintains the ribs' linearity over time. All together, this unique combination contributes to a rib suited for applications not only in large areas but also in a wide variety of demanding situations.



FIBRE GYPSUM CORE

Our ribs are based on a fibre gypsum core which has excellent properties regarding dimension stability, impact resistance, fire safety and acoustics, qualities which effectively eliminate most traditional wood-based choices. Altogether, this unique combination results in a rib suited for large areas and a wide variety of demanding situations.



FORM STABILITY

Gustafs Linear Ribs with a Fibre Reinforced Gypsum Core, in combination with our unique Capax installation system, guarantees real dimension stability, resulting in 100% straight aligned Ribs over their full lifetime, regardless humidity and temperature changes.



QUICK INSTALLATION

Capax is our unique aluminum profile installation system that provides you a concealed, reliable, quick and cost saving installation. The Quick-Up assembly system guarantees a perfect visual result. No tools are needed to assemble the interlocking components. A demountable version is available, ideal when access to the ancillary systems is required.



STABILITY

Wood based ribs will show bulging or shrinkage when humidity and temperature change. A fiber gypsum rib is considerably less susceptible to these effects. Over time this will result in a planer and more linear installation.



INSTALLATION

All Gustafs Linear solutions are installed with an extremely user-friendliness provided by the Capax Quick-Up concept, with interlocking components, eliminating the need for tools and offering demountable installations.



SUSTAINABILITY

Using a fiber gypsum core naturally results in extremely low emissions and a very high rate of recycled content. Being located in Sweden gives us the opportunity to produce with renewable power sources only.



FIRE

The high density nonflammable core and the surface veneer's strongly bound adhesion to the fiber gypsum rib give our ribs the classification "Reaction to fire B-s1,d0."



ACOUSTICS

Our linear system automatically gives a relatively large open area of 24% which warrants for a good sound absorption over a wide band of frequencies. The three dimensional shape will also act like a sound diffuser.



VENEER

Wood has a natural variation in structure and colour tone which ages in harmony with nature. The fact that wood is a natural material is an intrinsic aspect of its charm and attraction. It goes without saying that we do our utmost to fulfill requests for other veneers. We offer two choices of genuine veneer, NATURE and GEMINI.



LACQUER & GLOSS

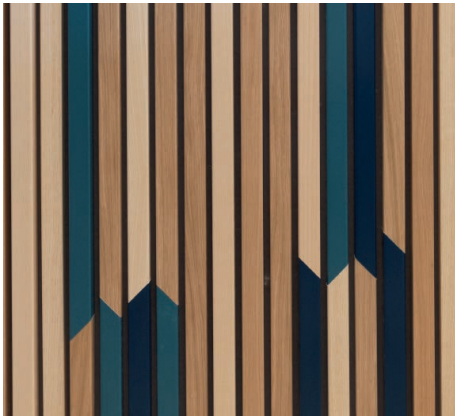
Prior to delivery the ribs are given a resilient and attractive surface finish. A clear lacquered finish is by far the most common maintenance-free and durable finish for wooden surfaces. Utilizing a multi-stage lacquering process, our surface finish achieves these demands while aspiring to maintain technical aspects such as our fire retardation and environmental goals.



PIGMENTED

You can also apply pigmented lacquers or stain the veneer to achieve different effects on your wall or ceiling. Different veneers react different to certain treatments so contact us to guarantee that the final result matches your vision.

A pigment can be used to change the colour tone of the veneer on Gustafs Ribs.



PAINTED

Some surfaces are very highly demanding. Among the many advantages of a Gustafs Rib is its plane and even surface. This enables us to create a painted surface finish which otherwise is extremely difficult to achieve on site. Utilizing our production technology we can produce painted surfaces in a multitude of colors in accordance with for example NCS or RAL codes.

CUSTOMIZED STANDARD

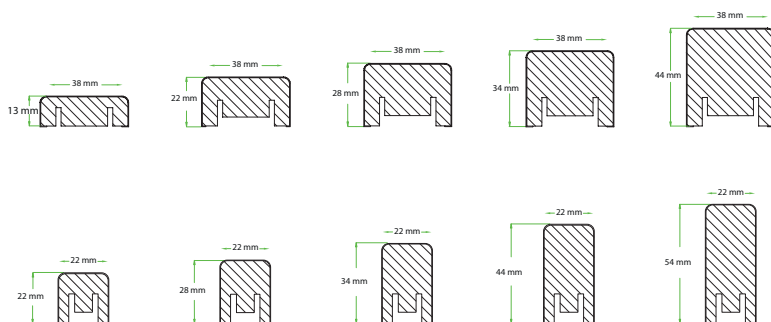
The concept of the Gustafs Linear System is rather to be considered as a customized standard. Many parameters can be adjusted individually before losing the advantages of a standard solution. You can vary the core, the veneer, the colour, the dimensions, open or closed gaps, coloured gaps. Gustafs Linear System can also be used in curved installations. We can assist you with your design wishes and help provide the rib solution with your own personal touch.

The 38 mm wide Gypsum core ribs are available in five thicknesses; 44 mm, 34 mm, 28 mm, 22 mm and 13 mm. Using our standard installation method, the space between the ribs is 12 mm. You can also combine different dimensions. The 22 mm wide gypsum core ribs are available in 22 mm, 28 mm, 34 mm, 44 mm and 54 mm. The standard space between the ribs is 28 mm.

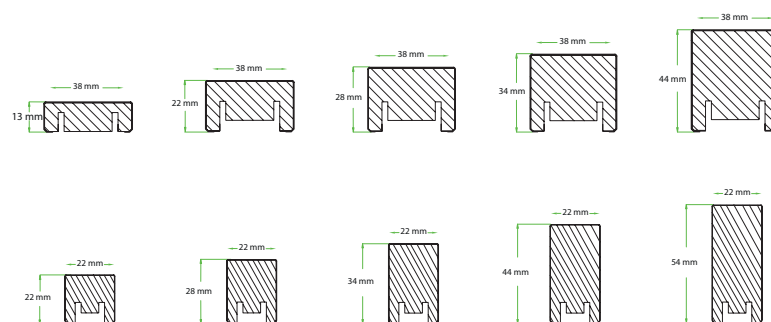
NOTE: For ceiling use, the maximum dimension is 28x38 (TxW) or 54x22 mm (TxW) for a CC 50 mm installation.

Contact Gustafs for possible solutions for 34x38 - 44x38 mm.

RIB-R



RIB-S

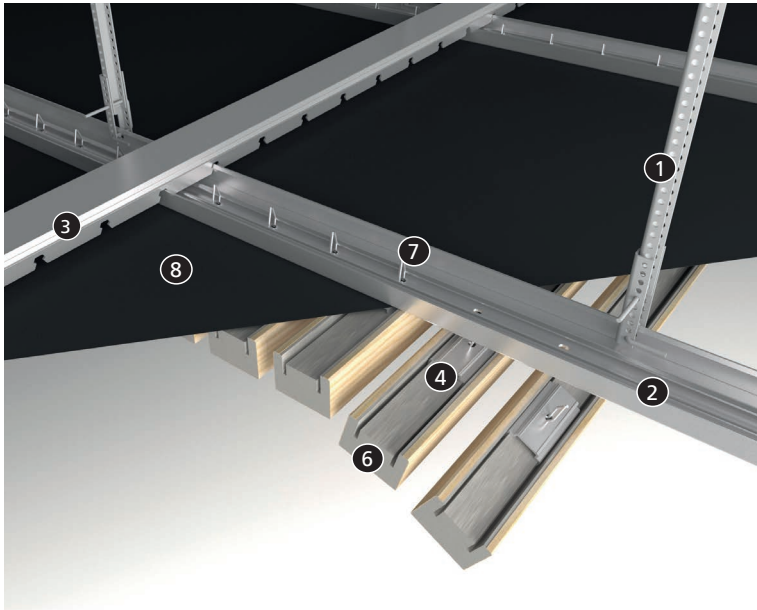


GUSTAFS ACOUSTIC LINEAR RIBS

ACOUSTICS	Typ	Spacing	Slott (D)	Ribs on cc	Open area	WALL: 45 mm insulation + 30 mm air void (Hz/ap)								CEILING: 45 mm insulation + 200 mm air void (Hz/ap)							
						α_w	NRC	125	250	500	1000	2000	4000	α_w	NRC	125	250	500	1000	2000	4000
Sound absorption	Linear	12 mm	∞	50 mm	24%	0,70-C	0,80	0,30	0,90	1,00	0,75	0,60	0,65	0,70-C	0,80	0,50	0,95	0,85	0,75	0,60	0,65
	Linear*	12 mm	∞	50 mm	24%	0,65-C	0,70	0,05	0,35	0,90	0,90	0,70	0,65	-	-	-	-	-	-	-	-
	Linear	62 mm	∞	100 mm	62%	-	-	-	-	-	-	-	-	0,95-A	1,00	0,35	0,95	1,00	1,00	0,95	0,75

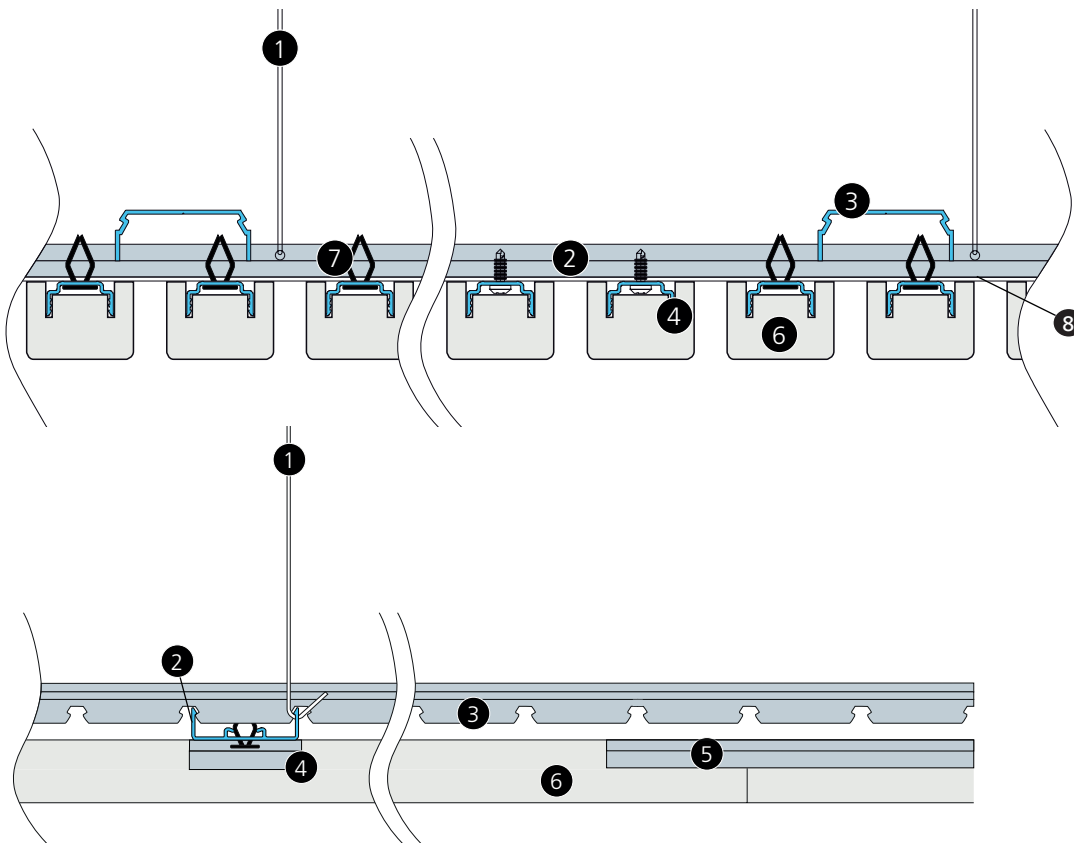
* Tested with 17 mm insulation only, no air void

CEILING INSTALLATION



1. Ceiling hanger
2. Suspending Capax BASE-C
3. Distance Capax 3262
4. Capax U-Fix 50
5. Capax in-line connector
6. Gustafs Rib
7. Spring clips (22 mm wide ribs screws only)
8. Acoustex, Acoustic felt

CAPAX CEILING SUSPENSION



CAPAX CEILING PROFILES



BASE-C Ceiling Carrier



3262 – Distance profile,
with cuts every 50 mm

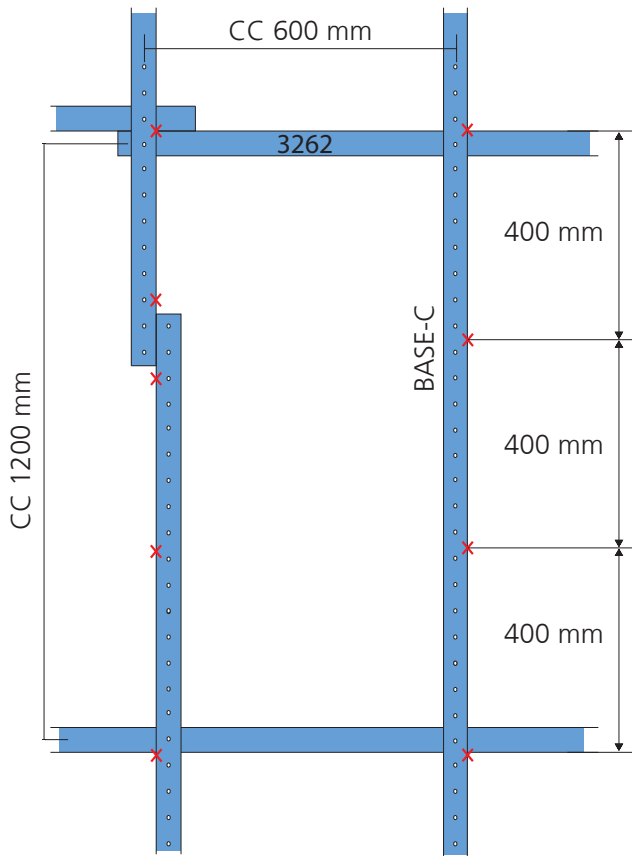


U-FIX-50, Gripper for Ribs,
with hole, length 50 mm



U-FIX-200, Inline connector

CEILING INSTALLATION



1. For ceiling use the maximum dimension of Rib is 28x38 mm for CC 50 mm installations.
2. Suspend the Capax profiles BASE-C (2) with 600 mm in between.
3. The connection of BASE-C to the ceiling has to be made every 400 mm.
4. Snap the distance Capax 3262 (3) to the BASE-C profile every 1200 mm and secure the position with a self-drilling screw in the intersections.
5. Optionally install an Acoustex felt with some self-adhesive tape to keep it in place during the installation.
6. Attach the Capax U-FIX clips (4) flush to the BASE-C profile with demountable clips or permanent screws. This step will also hold the Acoustex in place permanently.
7. Twist the U-FIX (4) clips 90° into a perpendicular position to the BASE-C.
8. Press the Ribs (6) onto the U-FIX clips and if needed carefully use a squeezing clamp.
9. Optionally install an insulation material on top to fill the air gap behind the Ribs.
10. Free hanging Rib-ends should not be longer than 200 mm.

X = Suspension points

DEMOUNTING



DEMOUNTING

When the Ribs are installed with the spring clips, they can be demounted by gently pulling close to all the points of connection (U-FIX + spring clip), starting at one of the ends. Do not try to pull down the whole Rib by pulling at one of the ends only.

RE-INSTALLING

In the case of a re-installation of a removed Rib, be sure all spring clips are properly aligned with the center of the holes in the BASE-C or BASE-W profiles before pressing firmly home.

INSTALLATION DETAILS

CONCEALED AND SIMPLE, STANDARD



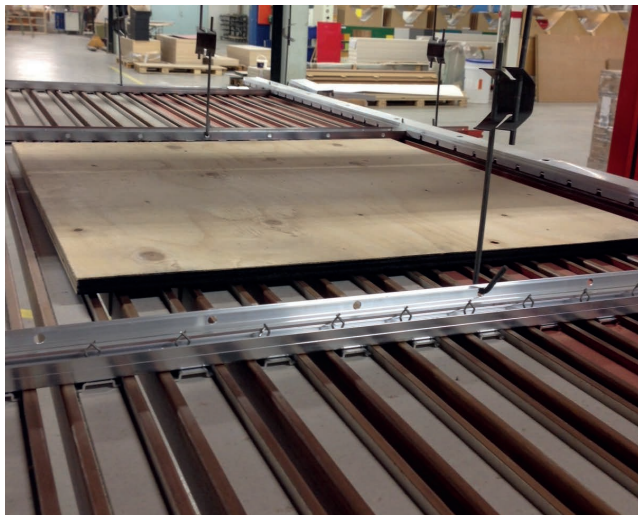
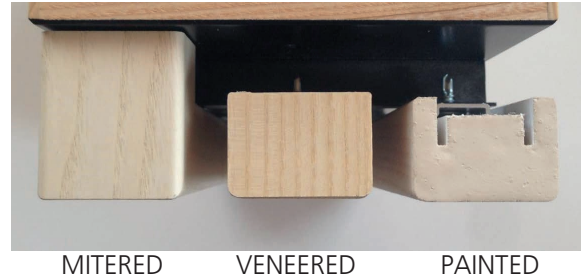
STANDARD CURVED DOWN TO 300MM RADIUS



HATCHES



END FINISH



FIRE CLASSIFICATIONS

Fire Classifications

GUSTAFS ::
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System	Core Material	Modell	VENEER				HPL		CPL		FOIL		
			Lacquer	Stain	Paint	Print	-	Print	-	Print	-	Paint	Print
Gustafs Linear Rib System	High Density Fibre Gypsum	Rib	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	-	-	-	-	B-s1,d0	B-s1,d0	B-s1,d0
	HIR Sandwich	Rib	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	-	-	-	-	B-s1,d0	B-s1,d0	B-s1,d0
	FR-MDF (B-s1,d0)	Rib	Core Class	Core Class	Core Class	Core Class	-	-	-	-	Core Class	Core Class	Core Class
	MDF	Rib	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0	-	-	-	-	D-s2,d0	D-s2,d0	D-s2,d0

SHORT FACTS

Type	Gustafs Linear Rib System	
Core	Reinforced fibre gypsum, high density, 1200 kg/m³	
Backside design	Grooved for use with the concealed Capax installation system	
Acoustic felt	Black, Gustafs Acoustex 0,2 mm B-s1,d0	
	White, Gustafs Acoustex 0,2 mm B-s1,d0	
	Grey, Gustafs Acoustex 0,2 mm B-s1,d0	
Standard	13x38x2970 mm	22x22x2400 / 22x22x2970 mm
Dimensions (TxWxL)	22x38x2400 / 22x28x2970 mm	28x22x2400 / 28x22x2970 mm
	28x38x2400 / 28x38x2970 mm	34x22x2400 / 34x22x2970 mm
	34x38x2400* / 34x38x2550 mm*	44x22x2400 / 44x22x2970 mm
	44x38x2400* / 44x38x2550 mm*	54x22x2400 / 54x22x2970 mm
	* = For ceiling use install ≥ CC 100 mm.	
Customized	20-80x38x2400 / 20-80x38x2550 mm, and other shorter lengths	
Dimensions (TxWxL)	22x38-88x2400 / 22x38-88x2970 mm, and other shorter lengths	
	28x38-88x2400 / 28x38-88x2970 mm, and other shorter lengths	
Installation system	Gustafs Capax aluminium profiles and clips, containing:	
Ceiling	A grid using Capax Base-C battens installed cc 600 mm perpendicular to the ribs + a distance profile 3262 every 1200. The ribs are connected to the Base-C profile by concealed U-FIX clips every 600 mm of rib length (5 pcs U-FIX per 2400 mm rib length and 42 pcs of U-FIX per m².)	
Reaction to Fire	B-s1,d0 (EN 13501-1) (Valid for the whole system, the ribs including the surface, the surface treatment, the installation with a void filled or non-filled with insulation, and allowing all kinds of post treatments like cutting)	
TVOC	Approved emissions (EN ISO 16000-9)	
Formaldehyde	Approved emissions (EN 717-1)	
Urea formaldehyde	Not added	
Recycled Material	17% Post Consumer	
Certified Wood	FSC available, Certificate Code: SCS-COC-005137	
EPD	Available	
Production Site	City: Gustafs / country: Sweden	
Life time	Expected > 50 years	

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