







Status

- Patent application filed at European Patent Office under the PCT. High confidence level that patent will be awarded
- Soft tool has been made
- Clips for testing and for sample orders can be supplied upon order. Price for prototype clips is high – app €1,50
- Hard tool will be finished around New Year
- Tested for 500 kg dead weight (plastic pellets) with success at the Belgian Packaging Test Institute
- Clip tested for creap or plastification at The Danish Technological Institute



Status - continued

- Further development to take higher pay loads will be made
- Demo boxes and 100 clips for trial boxes plus swallow tail router will be shipped October to all licensees – FOC
- Further clips for trial boxes can be delivered upon receipt of orders
- Marketing material
 - Simple CLI presentations will be ready quickly
 - Other material awaits the new web site



Comparison between the plastic clip and 12mm steel clip

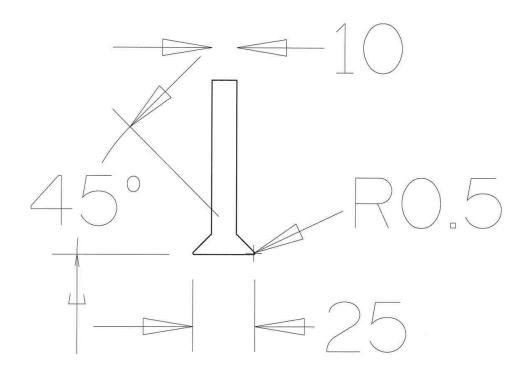
	PLASTIC CLIP	12MM STEEL CLIP	
Strength	Medium	High	
Re-usability	Limited	Very high	
Testing at Official Institute	500 kg payload	1000 kg payload	
Price of clip	App €0,20	App €0,50	
Board material	>8mm	>11mm	
Machining	CNC	CNC, DET, By hand	
Special machine tools	Floating Head for rebate	None	
	Double router head, opt	None	
Special router bits	Tool for 45 degr. hole	Tool for clip slot	



double router head - drawing P1 2015 24058.pdf



Swallow tail router bit





Comparison - plastic clip and 12mm steel clip - continued

	PLASTIC CLIP	12MM STEEL CLIP	
Overall ergonomics	Very good	good	
Noice, DB-mounting clip	Very low	Critical	
Need for tool to open box	No	Simple clip lever	
Speed of mounting clips	Equal	Egual	
Speed of removing clips	Very fast	Quick	
Clip characteristics	Length of legs equal	Length of legs not equal	



Advantages and disadvantages compared with alternatives

	Advantages	Disadvantages
Nefab XL		
Nefab Vikex – metal edge		
Nailed / Screwed boxes		
Clipped together boxes		



Prices of board material, Euros. Based on delivery in DK – whole truck loads, qtr. 3 2015

	Dimensions	Price/m2 - Euros
OSB 2, WBP glued	9mm 2440x1220*	2,38
	11mm 2440x1220	2,43
	18mm 2440x1220	3,98
Birch CCX, WBP glued	6,5mm 2440x1220	3,85
	8mm 2440x1220	4,49
Birch CCX, MR glued	6,5mm 1525x1525	2,54
	8mm 1525x1525	3,40
Pine or Spruce CPC, WBP glued	6mm 2440x1220	2,95
	9mm 2440x1220	4,17
	12mm 2440x1220	5,21
	18mm 2440x1220	7,36



What shall we call it!

Generic names Unique names



The first customers

Gryphon in Denmark

http://www.gryphon-audio.dk/products/integrated-amplifiers/diablo-300.aspx

Grande Exhibitions in Australia

http://grandeexhibitions.com

Glass fiber casts for Odense Zoo, Denmark

Where shall we find the next customers?

BRAINSTORM