

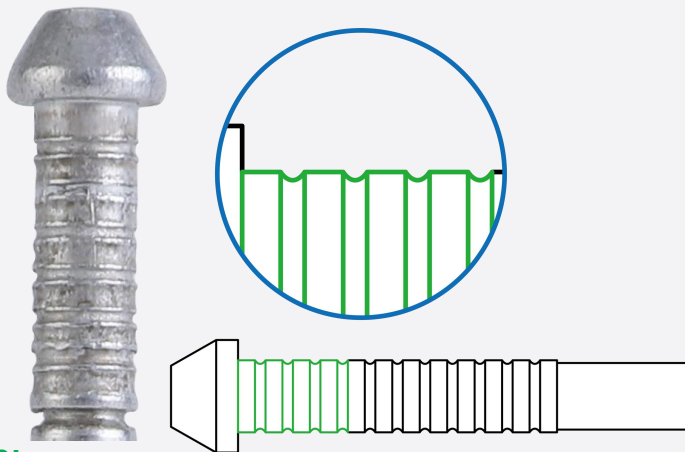
Tri-Firm Blind Rivet (Watertight)

Comparison---Mandrel Design



Rivmate

Rivmate

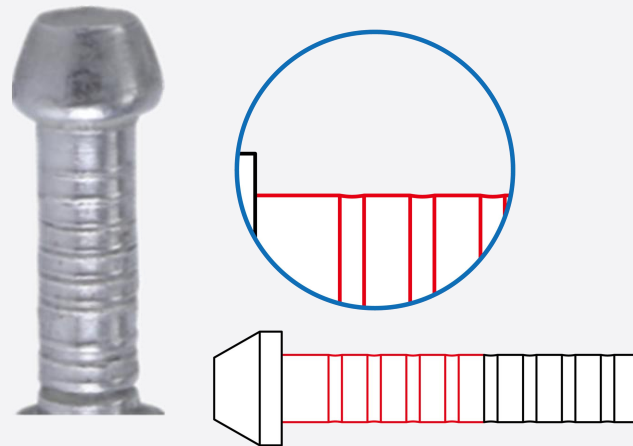


Note:

1. Rectangular-shaped grooves can make rivet body and mandrel lock tightly, and then ensure the higher mandrel head retention strength and good seal function.
2. Aviation-standard sealant on the mandrel offers the double assurance on its watertight function.
3. Waterproof rating is up to IPX-7.

VS

Competitor's



Note:

1. The Mandrel Grooves above breaking point is not obvious. After riveting, the mutual lock between rivet body and grooves is not tight. Seal function and mandrel head retention strength cannot be ensured.
2. Watertight function is not ideal.



Tri-Firm Blind Rivet (Watertight)

Comparison---Waterproof Washer



Rivmate

Rivmate



EPDM Test Report.pdf



MSDS for washer.pdf

EPDM Washer is the most effective washers to stop leakage from the roof. And it can easily withstand the damaging effects of high temperature, moisture, water, harmful rays of the sun and harsh climates.

VS

Competitor's

Some factories use the PVC material as waterproof washers, the disadvantages of which are poor high temperature resistance, more vulnerable and not environmental-friendly.



Tri-Firm Blind Rivet (Watertight)

Comparison – The pictures of cross section after riveting



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Note:

1. Rivet body and mandrel are squeezed together tightly. Mandrel head retention strength and waterproof function get ensured.

VS

Competitor's



Note:

1. There are small gap between rivet body and mandrel after riveting. Waterproof function cannot be ensured.



Tri-Firm Blind Rivet (Watertight)

Comparison- Video of Leak Test (IPX-7Standard)



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Tri-Firm Blind Rivet (Watertight)

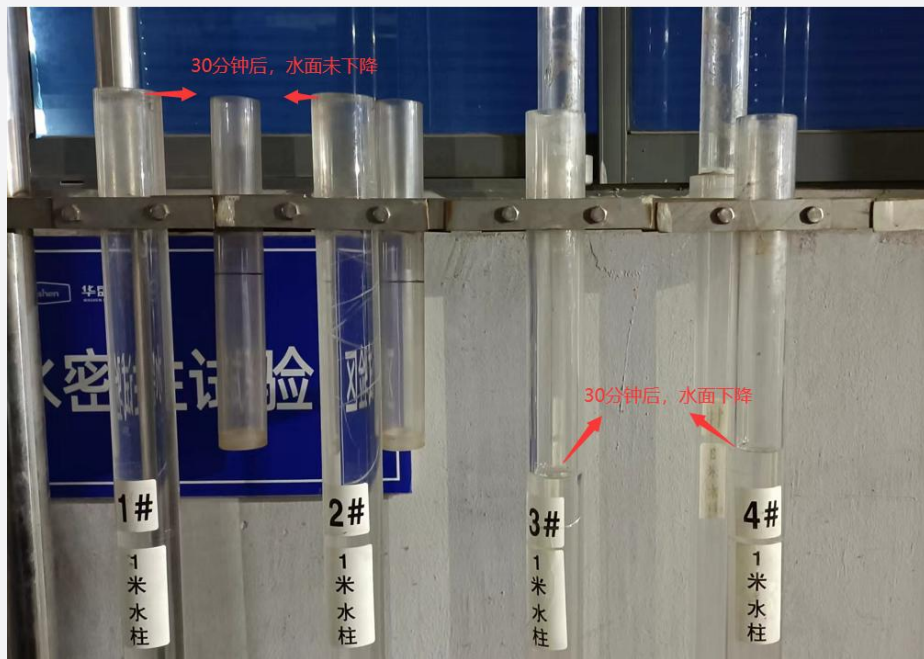
Comparison- Leak Test Result (IPX-7Standard)



Rivmate

Note:

The water level still stays at 1 meter position after 30 mins. The waterproof function is excellent.



Competitor's

Note:

The water level drops a lot after 30mins, when the competitor's rivets are under 1 meter water column. So the waterproof function is not good.



Tri-Firm Blind Rivet (Watertight)

Comparison---Tensile test & Shear test (5.2mm Diameter)

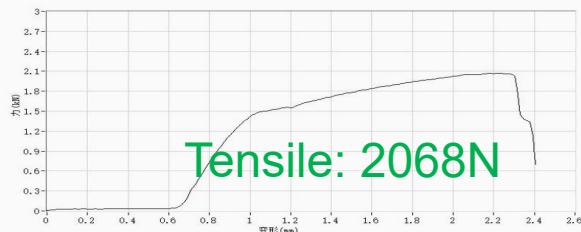


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拉伸性能试验报告

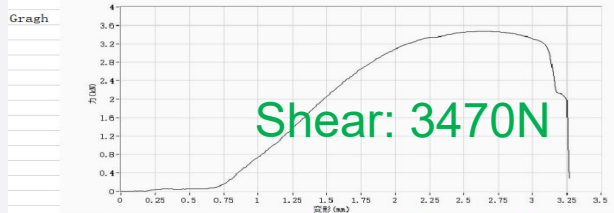
客户名称		测试人员	Lee	试验日期	2022-11-22 09:59:21
材料名称	铆钉	试验标准	铆钉拉伸	测试规格	3.000mm
试验速度	25.000mm/min				



No.	材料名称	最大力 (kN)
26523_1	铆钉	2.068

力学性能试验报告

客户名称		测试人员	Lee	试验日期	2022-10-10 10:12
材料名称	铆钉	测试标准	铆钉拉伸	测试规格	0.2*1.5
试验速度	25.000mm/min	标距	0.000mm		



No.	材料名称	最大力 (kN)
25197_1	铆钉	3.47

Tensile Force
(Reference): 1800N

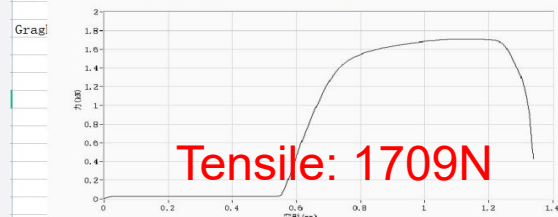
Shear Force
(Reference): 2700N

VS

Competitor's

力学性能试验报告

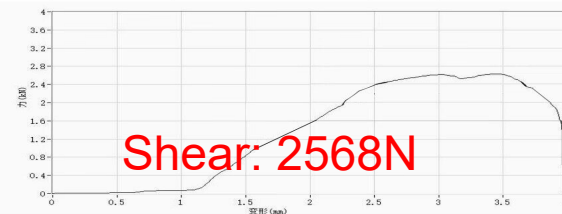
客户名称		测试人员	Lee	试验日期	2022-10-10 10:25
材料名称	铆钉	测试标准	铆钉拉伸	测试规格	0.2*1.5
试验速度	25.000mm/min	标距	0.000mm		



No.	材料名称	最大力 (kN)
25202_1	铆钉	1.709

拉伸性能试验报告

客户名称		测试人员	Lee	试验日期	2022-11-22 11:03:18
材料名称	铆钉	试验标准	铆钉拉伸	测试规格	3.000mm
试验速度	25.000mm/min				



No.	材料名称	最大力 (kN)
26586_1	铆钉	2.568

Conclusion: Rivmate rivet's strengths are higher than competitor's.



Tri-Firm Blind Rivet (Watertight)

Comparison --- Rivet Mandrel Head Retention Capability

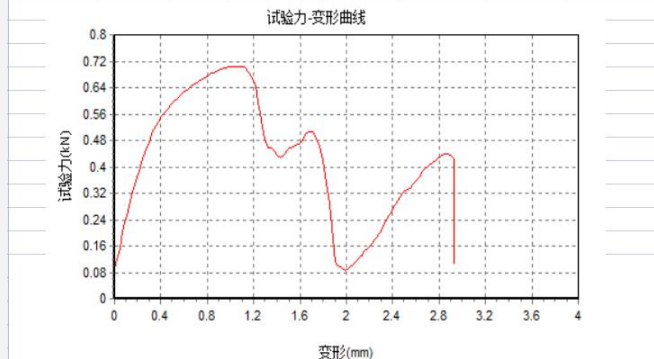


Rivmate

Rivmate

试验类型		试验员	
批号	/	材质	/
规格	/	材料类型	
生产日期	2022-10-10	送检单位	
标距	50	试验湿度	

序号	截面积 mm ²	最大力 KN	抗拉强度 Mpa	断后伸长 %	屈服强度 MPa	最大变形 mm	备注
/	0	0.705	7		6	2	

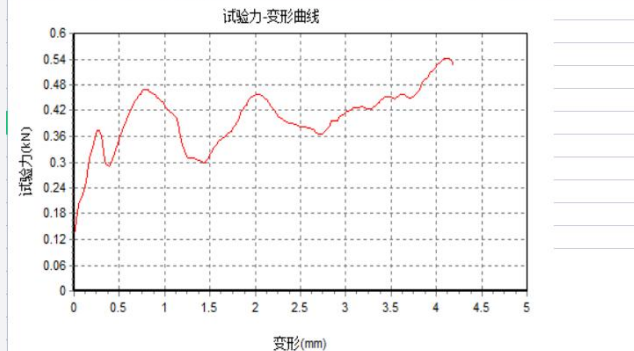


VS

Competitor's

试验类型		试验员	
批号	/	材质	/
规格	/	材料类型	
生产日期	2022-10-10	送检单位	
标距	50	试验湿度	

序号	截面积 mm ²	最大力 KN	抗拉强度 Mpa	断后伸长 %	屈服强度 MPa	最大变形 mm	备注
/	0	0.541	5		4	8.5	



Conclusion: Rivmate rivet's mandrel head retention capability and water resistance are better than competitor's .

