

DECLARATION OF PERFORMANCE

Nr. 20130701-MULTI

Issued in accordance with the Construction Products Directive (CPD) 305/2011/EU. Stafa Group hereby declares that the products mentioned below comply with requirements of:

EN 14592 2008+A1 2012

TIMBER STRUCTURES – DOWEL TYPE FASTENERS

1. Unique identification code of product : **05025, 05026, 05125, 05126**
2. Type or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): **See annex 1 to this document**
3. Intended uses of the construction product, in accordance with the applicable harmonized technical specification as foreseen by the manufacturer **Load bearing timber structures**
4. Contact address of manufacturer : **Stafa Group
Den Engelsman 18
6026 RB Maarheeze
The Netherlands**
5. Contact address of authorised representative : **Not Relevant**
6. Assessment system **System 3**
7. In case of the declaration of performance concerning a construction product covered by a harmonized **Standard: EN14592:2008 + A1:2012
Performed by: SHR – Nieuwe Kanaal 9b – 6700 AL Wageningen
under system: 3
and issued: Report code 12.0570**
8. In case of the declaration of performance concerning a construction product for which European Technical Assessment has been issued: **Not relevant**

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IBAN: NL63 ABNA 0444 6696 39

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9. Declaration performance:

 Measured in Spruce 450 kg/m³ WMC 13%

3.0 X 30 Multi+	3.5 X 30 Multi+	4.0 X 50 Multi+	4.5 X 50 Multi	5.0 X 60 Multi	6.0 X 100Multi+
$F_{ax,k}$ (N/mm ²)	$F_{ax,k}$ (N/mm ²)	$F_{ax,k}$ (N/mm ²)	$F_{ax,k}$ (N/mm ²)	$F_{ax,k}$ (N/mm ²)	$F_{ax,k}$ (N/mm ²)
18.2	19.3	19.5	19.1	18.4	18.5

3.2 Determination of the characteristic pull through resistance

 Measured in Okoume plywood, 18mm, 525 kg/m³, EN 314 class 3

3.0 X 30 Multi+	3.5 X 30 Multi+	4.0 X 50 Multi+	4.5 X 50 Multi	5.0 X 60 Multi	6.0 X 100Multi+
$F_{head,k}$ (N/mm ²)	$F_{head,k}$ (N/mm ²)	$F_{head,k}$ (N/mm ²)	$F_{head,k}$ (N/mm ²)	$F_{head,k}$ (N/mm ²)	$F_{head,k}$ (N/mm ²)
39.0	40.0	43.2	38.9	36.8	32.5

3.3 Determination of the characteristic torsional resistance

 Measured in Spruce 450 kg/m³ WMC 13%

3.0 X 30 Multi+	3.5 X 30 Multi+	4.0 X 50 Multi+	4.5 X 50 Multi	5.0 X 60 Multi	6.0 X 100Multi+
$R_{tor,k}$ (Nm)	$R_{tor,k}$ (Nm)	$R_{tor,k}$ (Nm)	$R_{tor,k}$ (Nm)	$R_{tor,k}$ (Nm)	$R_{tor,k}$ (Nm)
0.9	1.2	1.7	2.1	2.7	1.1

3.4 Determination of the characteristic torsional ratio

3.0 X 30 Multi+	3.5 X 30 Multi+	4.0 X 50 Multi+	4.5 X 50 Multi	5.0 X 60 Multi	6.0 X 100Multi+
$F_{tor,k}$ (Nm)	$F_{tor,k}$ (Nm)	$F_{tor,k}$ (Nm)	$F_{tor,k}$ (Nm)	$F_{tor,k}$ (Nm)	$F_{tor,k}$ (Nm)
1.6	2.2	3.9	4.7	6.3	10.5

3.5 Determination of the characteristic yield moment

3.0 X 30 Multi+	3.5 X 30 Multi+	4.0 X 50 Multi+	4.5 X 50 Multi	5.0 X 60 Multi	6.0 X 100Multi+
$M_{y,k}$ (Nmm)	$M_{y,k}$ (Nmm)	$M_{y,k}$ (Nmm)	$M_{y,k}$ (Nmm)	$M_{y,k}$ (Nmm)	$M_{y,k}$ (Nmm)
1620	2415	4091	6050	6600	12096

3.6 Determination of the characteristic tensile capacity

3.0 X 30 Multi+	3.5 X 30 Multi+	4.0 X 50 Multi+	4.5 X 50 Multi	5.0 X 60 Multi	6.0 X 100Multi+
$F_{tens,k}$ (N/mm ²)	$F_{tens,k}$ (N/mm ²)	$F_{tens,k}$ (N/mm ²)	$F_{tens,k}$ (N/mm ²)	$F_{tens,k}$ (N/mm ²)	$F_{tens,k}$ (N/mm ²)
390	392	399	400	361	356

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

The authorized representative of Stafa Group.

Joep van Gool, Management:



Maarheeze, 1 July 2013

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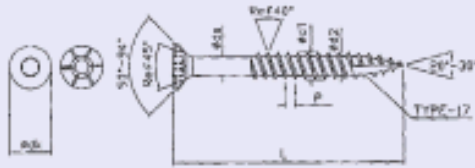
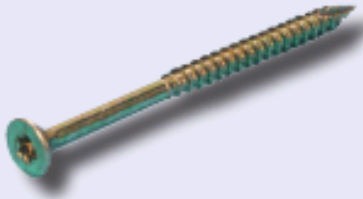
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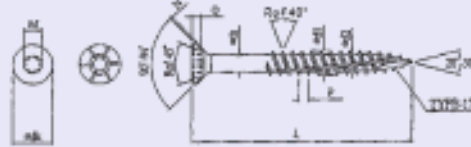
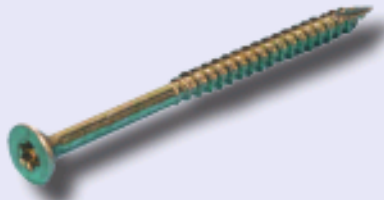
05025


Verzinken MULTI-schroeven met T-ster
 Hexalobular countersunk MULTI-screws
 MULTI-Schrauben Senkkopf mit Innensechsrund
 MULTI-vis à tête fraisée à six lobes internes
 MULTI-tornillos para aglomerado avellanado, multiestrella
Six lobe (T)

Staal verzinkt, geel gepass.
 Steel zinc plated, yellow pass.
 Stahl verzinkt, gelb passiviert
 Acier bichromaté
 Acero bicromatado

	Size	3mm	3.5mm	4mm	4.5mm
d1	Thread-outside diameter	2.80-3.00	3.30-3.50	3.75-4.00	4.25-4.50
d2	Thread-minor diameter	1.70-1.90	2.00-2.20	2.30-2.50	2.50-2.70
ds	Shaft-diameter(REF)	2,20	2,50	2,90	3,20
dk	Head-diameter	5.60-6.00	6.60-7.00	7.55-8.00	8.55-9.00
p	Thread pitch(REF)	1,35	1,60	1,80	2
T	Size	T-10	T-15	T-20	T-20
	Depth	1.14-1.42	1.30-1.60	1.52-1.90	1.60-2.00

CODE	SIZE (dxL)	📦	CODE	SIZE (dxL)	📦	CODE	SIZE (dxL)	📦
0502500001	3 x 12	200	0502500015	3,5 x 35	200	0502500028	4 x 60	200
0502500003	3 x 16	200	0502500016	3,5 x 40	200	0502500029	4 x 70	200
0502500004	3 x 20	200	0502500017	3,5 x 45	200	0502500031	4,5 x 20	200
0502500005	3 x 25	200	0502500018	3,5 x 50	200	0502500032	4,5 x 25	200
0502500006	3 x 30	200	0502500020	4 x 16	200	0502500033	4,5 x 30	200
0502500007	3 x 35	200	0502500021	4 x 20	200	0502500034	4,5 x 35	200
0502500008	3 x 40	200	0502500022	4 x 25	200	0502500035	4,5 x 40	200
0502500009	3,5 x 12	200	0502500023	4 x 30	200	0502500036	4,5 x 45	200
0502500011	3,5 x 16	200	0502500024	4 x 35	200	0502500037	4,5 x 50	200
0502500012	3,5 x 20	200	0502500025	4 x 40	200	0502500038	4,5 x 60	200
0502500013	3,5 x 25	200	0502500026	4 x 45	200	0502500039	4,5 x 70	200
0502500014	3,5 x 30	200	0502500027	4 x 50	200	0502500040	4,5 x 80	200

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05025


	Size	5mm	6mm	8mm
dk	Head-diameter	9.40-10.00	11.50-12.00	14.00-15.00
d1	Thread-outside diameter	4.70-5.00	5.70-6.00	7.70-8.00
d2	Thread-minor diameter	3.00-3.30	3.60-3.90	5.00-5.30
ds	Shaft-diameter(REF)	3,50	4,20	5,70
p	Thread pitch(REF)	2,20	2,60	3,60
T	Size	T-25	T-30	T-40
	Depth	1.90-2.28	2.28-2.60	3.04-3.42
M	WIDTH(REF)	4,52	5,60	6,78
N	(REF)	0,45	0,50	0,60

CODE	SIZE (dxdL)	📦	CODE	SIZE (dxdL)	📦	CODE	SIZE (dxdL)	📦
0502500041	5 x 20	200	0502500058	6 x 45	100	0502500079	8 x 120	50
0502500042	5 x 25	200	0502500059	6 x 50	100	0502500080	8 x 140	50
0502500043	5 x 30	200	0502500061	6 x 60	100	0502500081	8 x 160	50
0502500044	5 x 35	200	0502500062	6 x 70	100	0502500082	8 x 180	50
0502500045	5 x 40	200	0502500063	6 x 80	100	0502500083	8 x 200	50
0502500046	5 x 45	200	0502500064	6 x 90	100	0502500084	8 x 220	50
0502500047	5 x 50	200	0502500065	6 x 100	100	0502500085	8 x 240	50
0502500048	5 x 60	200	0502500067	6 x 120	100	0502500086	8 x 260	50
0502500049	5 x 70	200	0502500069	6 x 140	100	0502500087	8 x 280	50
0502500050	5 x 80	100	0502500089	6 x 150	100	0502500088	8 x 300	50
0502500051	5 x 90	100	0502500070	6 x 160	100	0502500094	8 x 320	50
0502500052	5 x 100	100	0502500073	6 x 180	100	0502500095	8 x 340	50
0502500075	5 x 110	100	0502500074	6 x 200	100	0502500096	8 x 360	50
0502500076	5 x 120	100	0502500092	6 x 220	100	0502500097	8 x 380	50
0502500054	6 x 30	100	0502500093	6 x 240	100	0502500098	8 x 400	50
0502500055	6 x 35	100	0502500077	8 x 80	50			
0502500056	6 x 40	100	0502500078	8 x 100	50			

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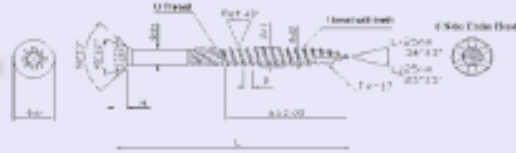
BIC: ABNANL2A

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DECLARATION OF PERFORMANCE

05125



Verzinken MULTI+ schroeven met kruisgleuf
Cross recessed countersunk MULTI+ screws
MULTI+ Schrauben Senkkopf mit Kreuzschlitz
MULTI+ vis à tête fraisée à empr. cruciforme
MULTI+ tornillos avellanado, hueco cruciforme
Pozidriv (Z)

Staal verzinkt
Steel zinc plated
Stahl verzinkt
Acier zingué blanc
Acero cincado

Size	3mm	3.5mm	4mm	4.5mm	5mm	6mm
dk Head-diameter	5,50 -6,00	6,50 -7,00	7,50 -8,00	8,40 -9,00	9,40 -10,00	11,60 -12,10
d1 Thread-outside diameter	2,75 -3,05	3,25 -3,50	3,60 -4,00	4,20 -4,50	4,60 -5,00	5,60 -6,00
d2 Thread-minor diameter	1,80 -2,00	2,10 -2,30	2,40 -2,65	2,70 -2,95	3,00 -3,30	3,60 -3,95
ds Shaft-diameter(REF)	2,20	2,50	2,90	3,20	3,50	4,20
p Thread pitch(REF)	1,50	1,80	2,00	2,20	2,60	3,10
Pozi Size	# 1	# 2	# 2	# 2	# 2	# 3
Depth	1,60 -2,00	1,30 -2,10	2,05 -2,50	2,60 -3,10	3,00 -3,45	3,00 -3,45
M WIDTH(REF)	3,00	4,00	4,40	4,80	5,30	6,60

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05125

CODE	SIZE (dst.)	Thread length	Incl. U-thread	CODE	SIZE (dst.)	Thread length	Incl. U-thread		
0512500069	3x12	200	12	no	0512500034	4,5x40	200	40	no
0512500001	3x13	200	13	no	0512500035	4,5x45	200	29	no
0512500002	3x15	200	15	no	0512500036	4,5x50	200	30	yes
0512500070	3x16	200	16	no	0512500163	4,5x55	200	35	yes
0512500003	3x17	200	17	no	0512500037	4,5x60	200	35	yes
0512500004	3x20	200	20	no	0512500038	4,5x70	200	40	yes
0512500005	3x25	200	25	no	0512500039	4,5x80	200	50	yes
0512500006	3x30	200	30	no	0512500040	5x20	200	20	no
0512500007	3x35	200	35	no	0512500041	5x25	200	25	no
0512500008	3x40	200	40	no	0512500042	5x30	200	30	no
0512500009	3,5x13	200	13	no	0512500043	5x35	200	35	no
0512500010	3,5x15	200	15	no	0512500044	5x40	200	40	no
0512500071	3,5x16	200	16	no	0512500045	5x45	200	29	no
0512500011	3,5x17	200	17	no	0512500046	5x50	200	30	yes
0512500012	3,5x20	200	20	no	0512500164	5x55	200	35	yes
0512500013	3,5x25	200	25	no	0512500047	5x60	200	35	yes
0512500014	3,5x30	200	30	no	0512500048	5x70	200	40	yes
0512500015	3,5x35	200	35	no	0512500049	5x80	100	50	yes
0512500016	3,5x40	200	40	no	0512500050	5x90	100	50	yes
0512500017	3,5x45	200	29	no	0512500051	5x100	100	60	yes
0512500018	3,5x50	200	30	yes	0512500052	5x120	100	70	yes
0512500019	4x15	200	15	no	0512500053	6x30	100	30	no
0512500072	4x16	200	16	no	0512500054	6x40	100	40	no
0512500020	4x17	200	17	no	0512500055	6x50	100	30	yes
0512500021	4x20	200	20	no	0512500056	6x60	100	35	yes
0512500022	4x25	200	25	no	0512500057	6x70	100	40	yes
0512500023	4x30	200	30	no	0512500058	6x80	100	50	yes
0512500024	4x35	200	35	no	0512500059	6x90	100	50	yes
0512500025	4x40	200	40	no	0512500060	6x100	100	60	yes
0512500026	4x45	200	29	no	0512500061	6x110	100	70	yes
0512500027	4x50	200	30	yes	0512500062	6x120	100	70	yes
0512500162	4x55	200	35	yes	0512500063	6x130	100	70	yes
0512500028	4x60	200	35	yes	0512500064	6x140	100	70	yes
0512500029	4x70	200	40	yes	0512500065	6x150	100	70	yes
0512500030	4,5x20	200	20	no	0512500066	6x160	100	70	yes
0512500031	4,5x25	200	25	no	0512500067	6x180	100	70	yes
0512500032	4,5x30	200	30	no	0512500068	6x200	100	70	yes
0512500033	4,5x35	200	35	no					

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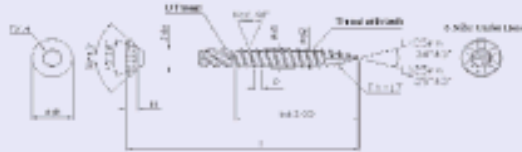
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DECLARATION OF PERFORMANCE

05126



Verzonken MULTI+ schroeven met T-ster
Hexalobular countersunk MULTI+ screws
MULTI+ Schrauben Senkkopf mit Innensechsrund
MULTI+ vis à tête fraisée à six lobes internes
MULTI+ tornillos avellanado, multiestrella
TORX®-TTAP (T)

Staal verzinkt
Steel zinc plated
Stahl verzinkt
Acier zingué blanc
Acero cincado

Size	3mm	3.5mm	4mm	4.5mm	5mm	6mm
dk Head-diameter	5,50 –6,00	6,50 –7,00	7,50 –8,00	8,40 –9,00	9,40 –10,00	11,60 –12,10
ds Shaft-diameter(REF)	2,20	2,50	2,90	3,20	3,50	4,20
d1 Thread-outside diameter	2,70 –3,05	3,25 –3,50	3,60 –4,00	4,20 –4,50	4,60 –5,00	5,60 –6,00
d2 Thread-minor diameter	1,80 –2,20	2,10 –2,30	2,40 –2,65	2,70 –2,95	3,00 –3,30	3,60 –3,95
T Depth	1,10 –1,30	1,30 –1,60	1,52 –2,00	1,70 –2,20	1,90 –2,30	2,30 –2,60
Size	T-10	T-15	T-20	T-20	T-25	T-30
P Thread pitch(REF)	1,50	1,80	2,00	2,20	2,60	3,10

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CODE	SIZE (dxdL)		Thread length	Incl. U-thread	CODE	SIZE (dxdL)		Thread length	Incl. U-thread
0512600137	3x12	1000	12	no	0512600034	4,5x40	500	40	no
0512600001	3x13	1000	13	no	0512600035	4,5x45	500	29	no
0512600002	3x15	1000	15	no	0512600036	4,5x50	500	30	yes
0512600138	3x16	1000	16	no	0512600189	4,5x55	500	35	yes
0512600003	3x17	1000	17	no	0512600037	4,5x60	500	35	yes
0512600004	3x20	1000	20	no	0512600038	4,5x70	500	40	yes
0512600005	3x25	1000	25	no	0512600039	4,5x80	200	50	yes
0512600006	3x30	1000	30	no	0512600040	5x20	500	20	no
0512600007	3x35	1000	35	no	0512600041	5x25	500	25	no
0512600008	3x40	1000	40	no	0512600042	5x30	500	30	no
0512600009	3,5x13	1000	13	no	0512600043	5x35	500	35	no
0512600010	3,5x15	1000	15	no	0512600044	5x40	500	40	no
0512600139	3,5x16	1000	16	no	0512600045	5x45	500	29	no
0512600011	3,5x17	1000	17	no	0512600046	5x50	500	30	yes
0512600012	3,5x20	1000	20	no	0512600190	5x55	500	35	yes
0512600013	3,5x25	1000	25	no	0512600047	5x60	500	35	yes
0512600014	3,5x30	1000	30	no	0512600048	5x70	200	40	yes
0512600015	3,5x35	1000	35	no	0512600049	5x80	200	50	yes
0512600016	3,5x40	1000	40	no	0512600050	5x90	200	50	yes
0512600017	3,5x45	1000	29	no	0512600051	5x100	200	60	yes
0512600018	3,5x50	1000	30	yes	0512600052	5x120	200	70	yes
0512600019	4x15	1000	15	no	0512600053	6x30	200	30	no
0512600140	4x16	1000	16	no	0512600054	6x40	200	40	no
0512600020	4x17	1000	17	no	0512600055	6x50	200	30	yes
0512600021	4x20	1000	20	no	0512600056	6x60	200	35	yes
0512600022	4x25	1000	25	no	0512600057	6x70	200	40	yes
0512600023	4x30	1000	30	no	0512600058	6x80	200	50	yes
0512600024	4x35	1000	35	no	0512600059	6x90	100	50	yes
0512600025	4x40	1000	40	no	0512600060	6x100	100	60	yes
0512600026	4x45	500	29	no	0512600061	6x110	100	70	yes
0512600027	4x50	500	30	yes	0512600062	6x120	100	70	yes
0512600188	4x55	500	35	yes	0512600063	6x130	100	70	yes
0512600028	4x60	500	35	yes	0512600064	6x140	100	70	yes
0512600029	4x70	500	40	yes	0512600065	6x150	100	70	yes
0512600030	4,5x20	1000	20	no	0512600066	6x160	100	70	yes
0512600031	4,5x25	1000	25	no	0512600067	6x180	100	70	yes
0512600032	4,5x30	1000	30	no	0512600068	6x200	100	70	yes
0512600033	4,5x35	500	35	no					

t tap[®] - feel the difference

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