



Nail type: **2.1mm diameter smooth shank**
 Finish: **Bright**
 Collation: **16° wire weld**

Suitable for these tools:-

6mm pitch collation; **Haubold RNC 50M**
Paslode CNW50.1
 6.8mm pitch collation; **Haubold RNC57,**
Paslode CNW65.1, Toolmatic CW550
 Nail lengths*: 25 to 65mm
 Nails per standard coil: 350
 (1000 / 1200 nail large coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Bright (no protection)

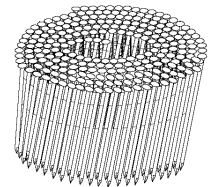
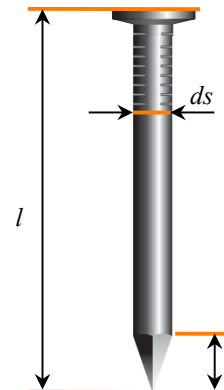
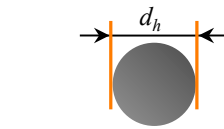
Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
 - Shank diameter (d_s)*: 2.1mm
 - Head diameter (d_h)*: 4.6mm (6mm pitch collation)
 5.0mm (6.8mm pitch collation)
 Other head diameters can be supplied to order
 - Standard nail lengths* (l);-
 l (mm) 27 30 35 40 45 50 55 60 65
 - Diamond point length l_p : 3mm
 - Standard point: diamond
 - 120° chisel and divergent points to special order
- Tolerances according to EN14592 for nail length, nail diameter and head diameter
 • See tool manuals for min and max nail lengths

Haubold is a brand of the ITW Group
 ITW reserves the right to change specification without notice
 All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
---	--	------------------------------

8.58	2.45	1445
------	------	------

Minimum embedment in base member: 17mm (lateral load)
 Smooth shank nails not suitable for permanent axial loading

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.1mm diameter smooth shank**
 Finish: **Electro-galvanised**
5µm

Collation: **16° wire weld**
 Suitable for these tools:-

6mm pitch collation; **Haubold RNC 50M**
Paslode CNW50.1
 6.8mm pitch collation; **Haubold RNC57,**
Paslode CNW65.1, Toolmatic CW550
 Nail lengths*: 25 to 65mm
 Nails per standard coil: 350
 (1000 / 1200 nail large coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Electro-galvanised $\geq 5\mu\text{m}$

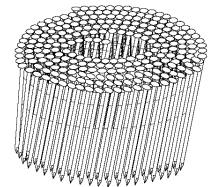
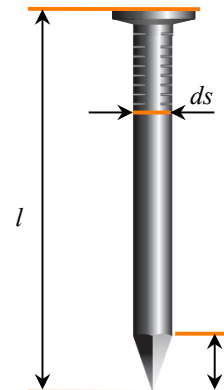
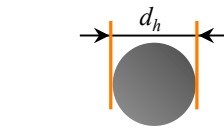
Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
 - Shank diameter (d_s)*: 2.1mm
 - Head diameter (d_h)*: 4.6mm (6mm pitch collation)
 5.0mm (6.8mm pitch collation)
 Other head diameters can be supplied to order
 - Standard nail lengths* (l);-
 l (mm) 27 30 35 40 45 50 55 60 65
 - Diamond point length l_p : 3mm
 - Standard point: diamond
 - 120° chisel and divergent points to special order
- Tolerances according to EN14592 for nail length, nail diameter and head diameter
 • See tool manuals for min and max nail lengths

Haubold is a brand of the ITW Group
 ITW reserves the right to change specification without notice
 All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
8.58	2.45	1445

Minimum embedment in base member: 17mm (lateral load)
 Smooth shank nails not suitable for permanent axial loading

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.5mm diameter smooth shank**
 Finish: **Bright**
 Collation: **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

Haubold RNC50 S/W, RNC65 S/WII, RNC70, RNC83. Paslode CNW65.1, CNW70.1, Toolmatic CW550

Nail lengths*: 35 to 75mm

Nails per standard coil: 300

(720 / 800 / 900 / 2500 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Bright (no protection)

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

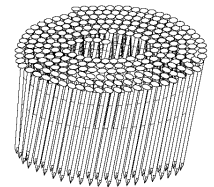
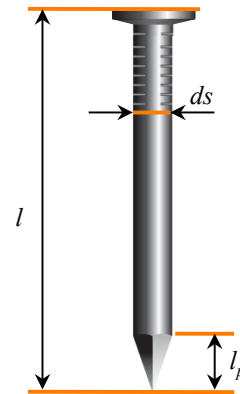
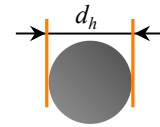
NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
 - Shank diameter (d_s)*: 2.5mm
 - Head diameter (d_h)*: 6.1mm
 - Standard nail lengths*(l);-

l (mm)	35	40	45	50	55	60	65	70	75
----------	----	----	----	----	----	----	----	----	----
 - Diamond point length l_p : 3.5mm
 - Standard point: diamond
 - 120° chisel and divergent points to special order
- Tolerances according to EN14592 for nail length, nail diameter and head diameter
 • See tool manuals for min and max nail lengths

Haubold is a brand of the ITW Group
 ITW reserves the right to change specification without notice
 All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
8.58	2.45	2274

Minimum embedment in base member: 20mm (lateral load)
 Smooth shank nails not suitable for permanent axial loading

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.5mm** diameter **smooth** shank
 Finish: **Electro-galvanised 5µm**
 Collation: **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

Haubold RNC50 S/W, RNC65 S/WII, RNC70, RNC83. Paslode CNW65.1, CNW70.1, Toolmatic CW550

Nail lengths*: 35 to 75mm

Nails per standard coil: 300

(720 / 800 / 900 / 2500 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Electro-galvanised $\geq 5\mu\text{m}$

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 2.5mm
- Head diameter (d_h)*: 6.1mm
- Standard nail lengths*(l);-
 l (mm) 35 40 45 50 55 60 65 70 75
- Diamond point length l_p : 3.5mm
- Standard point: diamond
- 120° chisel and divergent points to special order

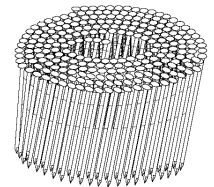
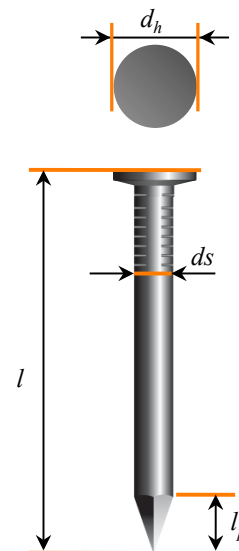
- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

Haubold is a brand of the ITW Group

ITW reserves the right to change specification without notice

All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
8.58	2.45	2274

Minimum embedment in base member: 20mm (lateral load)
 Smooth shank nails not suitable for permanent axial loading

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.8mm diameter smooth shank**
 Finish: **Bright**
 Collation: **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:- Haubold RNC65 S/WII, RNC75 S/W, RNC90 WII, RNC90 B-S/W, RNC70, RNC83

Paslode CNW70.1, CNW90, Toolmatic CW550

Nail lengths*: 36 to 90mm

Nails per standard coil: 250

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

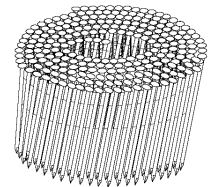
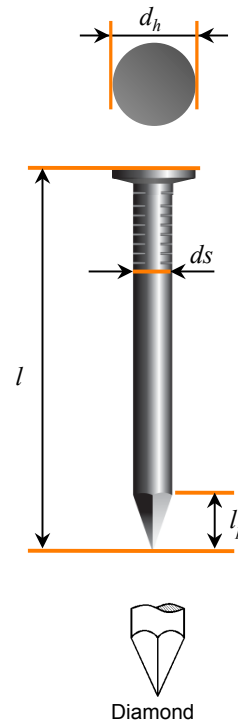
Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Bright (no protection)

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 2.8mm
- Head diameter (d_h)*: 6.7mm
- Standard nail lengths*(l);-
 l (mm) 50 55 60 65 70 75 80 85 90
- Point length l_p : 3.9mm
- Standard point: diamond

*Tolerances according to EN14592 for nail length, nail diameter and head diameter
 • See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
8.58	2.45	3054

Minimum embedment in base member: 23mm (lateral load)
 Smooth shank nails not suitable for permanent axial loading

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.8mm** diameter **smooth** shank
 Finish: **Electro-galvanised 5µm**
 Collation: **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:- Haubold RNC65 S/WII, RNC75 S/W, RNC90 WII, RNC90 B-S/W, RNC70, RNC83

Paslode CNW70.1, CNW90 , Toolmatic CW550

Nail lengths*: 36 to 90mm

Nails per standard coil: 250

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

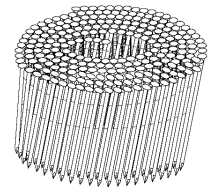
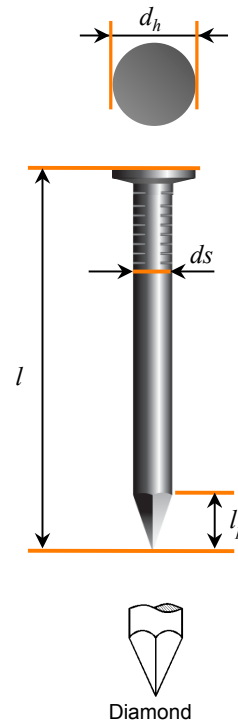
Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Electro-galvanised $\geq 5\mu\text{m}$

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 2.8mm
- Head diameter (d_h)*: 6.7mm
- Standard nail lengths*(l);-
 l (mm) 50 55 60 65 70 75 80 85 90
- Point length l_p : 3.9mm
- Standard point: diamond

*Tolerances according to EN14592 for nail length, nail diameter and head diameter
 • See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
8.58	2.45	3054

Minimum embedment in base member: 23mm (lateral load)
 Smooth shank nails not suitable for permanent axial loading

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **3.1mm diameter smooth shank**
 Finish: **Bright**
 Collation: **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

**Haubold RNC75 S/W, RNC90 WII,
 RNC90 B-S/W, CN83E**

Paslode CNW70.1, CNW90

Nail lengths*: 40 to 90mm

Nails per standard coil: 225

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Bright (no protection)

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

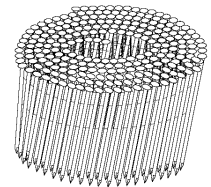
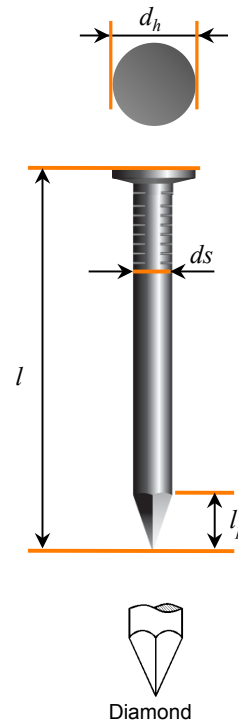
NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 3.1mm
- Head diameter (d_h)*: 7.1mm
- Standard nail lengths*(l);-
 l (mm) 50 55 60 65 70 75 80 85 90
- Point length l_p : 3.5mm
- Standard point: diamond

• Tolerances according to EN14592 for nail length, nail diameter and head diameter
 • See tool manuals for min and max nail lengths

Haubold is a brand of the ITW Group
 ITW reserves the right to change specification without notice
 All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
8.58	2.45	3979

Minimum embedment in base member: 25mm (lateral load)
 Smooth shank nails not suitable for permanent axial loading

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **3.1mm** diameter **smooth** shank
 Finish: **Electro-galvanised 5µm**
 Collation: **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

**Haubold RNC75 S/W, RNC90 WII,
 RNC90 B-S/W, RNC83**

Paslode CNW70.1, CNW90

Nail lengths*: 40 to 90mm

Nails per standard coil: 225

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Electro-galvanised $\geq 5\mu\text{m}$

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

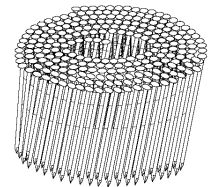
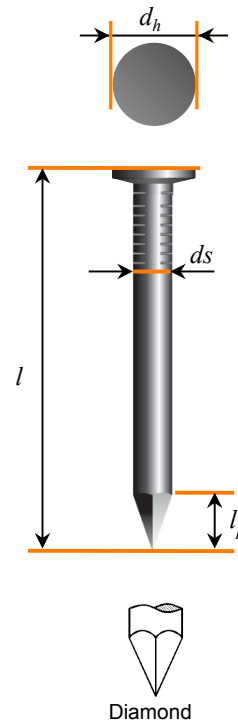
NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 3.1mm
- Head diameter (d_h)*: 7.1mm
- Standard nail lengths*(l);-
 l (mm) 50 55 60 65 70 75 80 85 90
- Point length l_p : 3.4mm
- Standard point: diamond

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

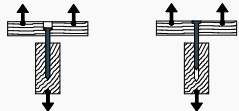
Haubold is a brand of the ITW Group
 ITW reserves the right to change specification without notice
 All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
8.58	2.45	3979



Minimum embedment in base member: 25mm (lateral load)
 Smooth shank nails not suitable for permanent axial loading

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **3.4mm diameter smooth shank**
 Finish: **Bright**
 Collation: **16° wire weld**


Pitch collation: 8mm

Suitable for these tools:-



Haubold RNC90 WII, RNC90 B-S/W
Paslode CNW90

Nail lengths*: 90mm

Nails per standard coil: 200

For fixing timber, OSB or plywood to timber 

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1 	Bright (no protection)

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

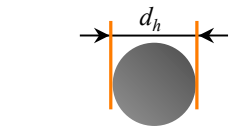
NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 3.4mm
- Head diameter (d_h)*: 7.1mm
- Standard nail lengths*(l);-
 l (mm) 90
- Point length l_p : 3.8mm
- Standard point: diamond

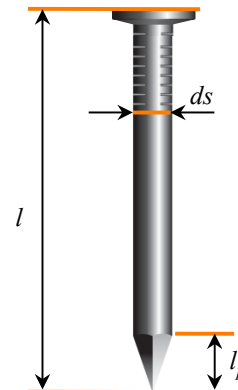
- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

Haubold is a brand of the ITW Group
 ITW reserves the right to change specification without notice
 All design using this data should be carried out by a qualified structural engineer,
 subject to relevant National and European standards or regulations

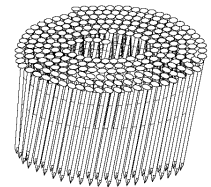
Issue date 22.02.2011 © ITW



CE
EN14592



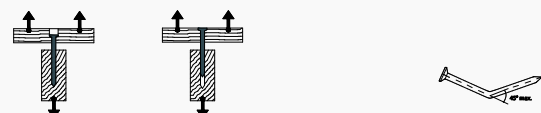
U
DIN1052



Diamond

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
8.58	2.45	5059



Minimum embedment in base member: 28mm (lateral load)
 Smooth shank nails not suitable for permanent axial loading

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.3mm diameter screw shank**
 Finish: **Bright**
 Collation: **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

Haubold RNC 50 S/W , RNC65 S/WII, RNC70

Paslode CNW65.1, CNW70.1

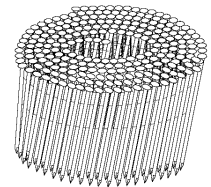
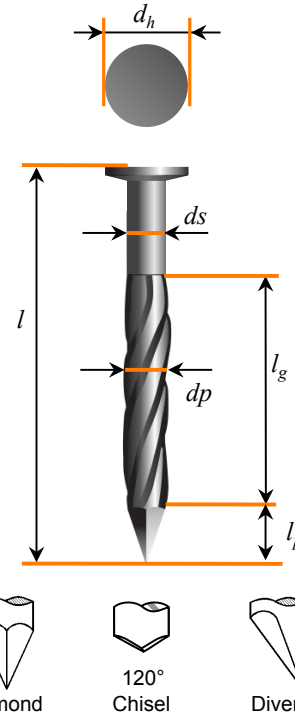
Toolmatic CW550

Nail lengths*: 40 to 60mm

Nails per standard coil: 300

(720 / 800 / 900 / 2500 nail coils also available)

For fixing timber, OSB or plywood to timber.



CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Bright (no protection)

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s): 2.3mm
- Profile diameter (d_p): 2.5mm
- Head diameter (d_h): 5.7mm
- Standard nail lengths*(l)/ Profiled length*(l_g);-
 l (mm) 40 45 50 55 60
 l_g (mm) 17 22 27 32 37
- Diamond point length l_p : 3.2mm
- Standard point: diamond
- 120° chisel and divergent points to special order

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
20.91	7.40	1708

Minimum embedment in base member: 14mm (lateral load)
 Minimum embedment in base member: 19mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³

Haubold is a brand of the ITW Group

ITW reserves the right to change specification without notice

All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



Nail type: **2.5mm diameter screw shank**
 Finish: **Bright**
 Collation: **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

Haubold RNC 50 S/W , RNC65 S/WII, RNC70

Paslode CNW65.1, CNW70.1

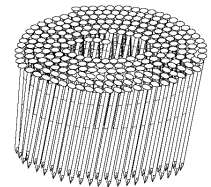
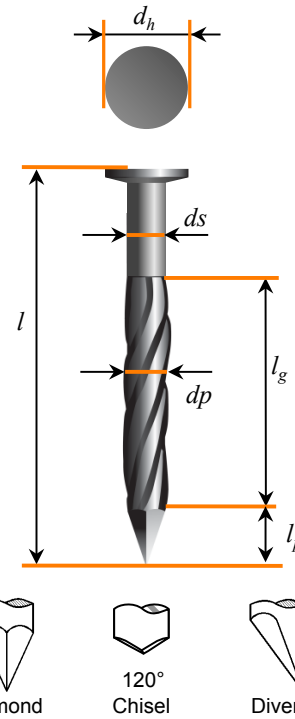
Toolmatic CW550

Nail lengths*: 35 to 75mm

Nails per standard coil: 300

(720 / 800 / 900 / 2500 nail coils also available)

For fixing timber, OSB or plywood to timber.



CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Bright (no protection)

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s): 2.5mm
- Profile diameter (d_p): 2.7mm
- Head diameter (d_h): 5.7mm
- Standard nail lengths*(l)/ Profiled length*(l_g);-

l (mm)	40	45	50	55	60	65	75
l_g (mm)	16	21	26	31	36	41	46
- Diamond point length l_p : 3.5mm
- Standard point: diamond
- 120° chisel and divergent points to special order

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
20.91	6.23	2440

Minimum embedment in base member: 15mm (lateral load)
 Minimum embedment in base member: 20mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³

Haubold is a brand of the ITW Group

ITW reserves the right to change specification without notice

All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



Nail type: **2.8mm diameter screw shank**
 Finish: **Bright**
 Collation: **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

Haubold RNC 50 S/W , RNC65 S/WII, RNC70


Paslode CNW65.1, CNW70.1

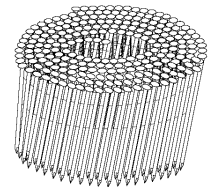
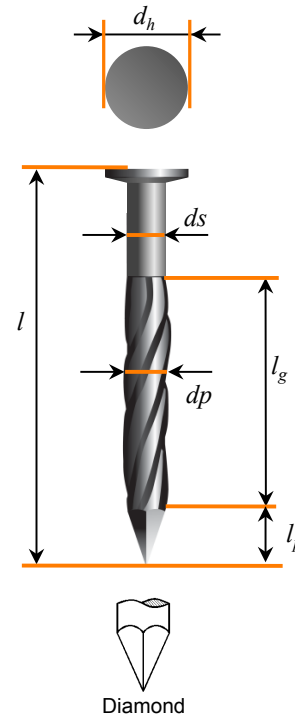
Toolmatic CW550

Nail lengths*: 35 to 75mm



Nails per standard coil: 300

(720 / 800 / 900 / 2500 nail coils also available)

For fixing timber, OSB or plywood to timber 



CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1 	Bright (no protection)

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

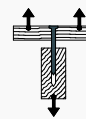
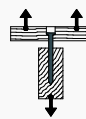
- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s): 2.8mm
- Profile diameter (d_p): 3.0mm
- Head diameter (d_h): 5.7mm
- Standard nail lengths*(l) / Profiled length*(l_g):-

l (mm)	45	50	55	60	65	75	80	90
l_g (mm)	21	26	31	36	41	51	56	66
- Diamond point length l_p : 3.9mm
- Standard point: diamond

*Tolerances according to EN14592 for nail length, nail diameter and head diameter
 * See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
21.64	7.66	3379



Minimum embedment in base member: 17mm (lateral load)
 Minimum embedment in base member: 23mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **3.1mm diameter screw shank**
 Finish: **Bright**
 Collation: **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

**Haubold RNC75 S/W, RNC90 WII,
 RNC90 B-S/W, RNC83**

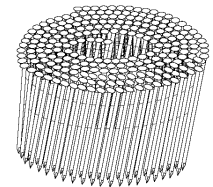
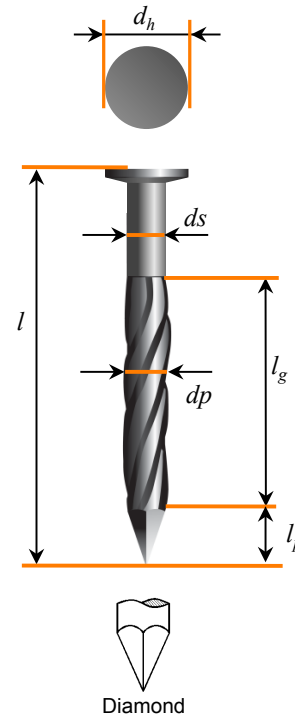
Paslode CNW70.1, CNW90

Nail lengths*: 40 to 90mm

Nails per standard coil: 225

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber



CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Bright (no protection)

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 3.1mm
- Profile diameter (d_p): 3.3mm
- Head diameter (d_h)*: 7.1mm
- Standard nail lengths*(l) / Profiled length*(l_g);-

l (mm)	50	55	60	65	70	75	80	85	90
l_g (mm)	26	31	36	41	46	51	56	61	66
- Diamond point length l_p : 3.4mm
- Standard point: diamond

*Tolerances according to EN14592 for nail length, nail diameter and head diameter
 * See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
15.37	7.11	4616

Minimum embedment in base member: 19mm (lateral load)
 Minimum embedment in base member: 25mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³

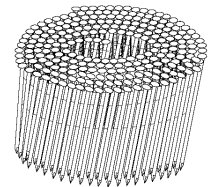
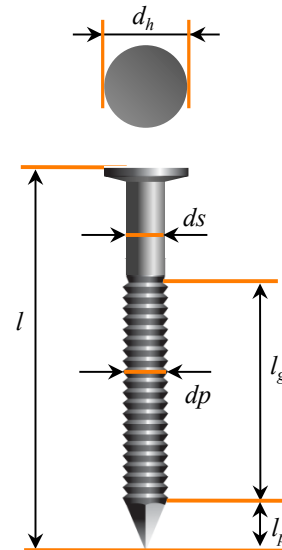


Nail type: **2.1mm diameter ring shank**
 Finish: **Bright**
 Collation : **16° wire weld**

Suitable for these tools:-

6mm pitch collation; **Haubold RNC 50M, Paslode CNW50.1**
 6.8mm pitch collation; **Haubold RNC57, Paslode CNW65.1 Toolmatic CW550**
 Nail lengths*: 25 to 65mm
 Nails per standard coil: 350
 (1000 / 1200 nail large coils also available)

For fixing timber, OSB or plywood to timber



CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Bright (no protection)

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

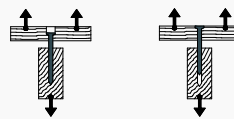
- Tensile strength of wire: min 700 N/mm²
- Shank diameter (*ds*)*: 2.1mm
- Profile diameter (*dp*): 2.3mm
- Head diameter (*dh*)*: 4.6mm (6mm pitch collation)
5.0mm (6.8mm pitch collation)
Other head diameters can be supplied to order
- Standard nail lengths*(*l*) / Profiled length*(*lg*):-

<i>l</i> (mm)	27	30	32	35	40	45	50	55	60	65
<i>lg</i> (mm)	17	20	22	25	30	35	40	45	50	55
- Diamond point length *lp*: 3mm
- Standard point: diamond
- 120° chisel and divergent points to special order

*Tolerances according to EN14592 for nail length, nail diameter and head diameter
 * See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through <i>f_{head,k}</i> [N/mm ²]	Withdrawal <i>f_{ax,k}</i> [N/mm ²]	Yield moment <i>M_{y,k}</i> [Nmm]
19.49	6.90	1118



Minimum embedment in base member: 13mm (lateral load)
 Minimum embedment in base member: 17mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.1mm diameter ring shank**
 Finish: **Electro-galvanised 5µm**
 Collation : **16° wire weld**

Suitable for these tools:-

6mm pitch collation; **Haubold RNC 50M**
Paslode CNW50.1
 6.8mm pitch collation; **Haubold RNC57,**
Paslode CNW65 **Toolmatic CW550**
 Nail lengths*: 25 to 65mm
 Nails per standard coil: 350
 (1000 / 1200 nail large coils also available)

For fixing timber, OSB or plywood to timber.



CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Electro-galvanised $\geq 5\mu\text{m}$

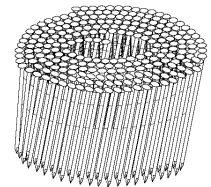
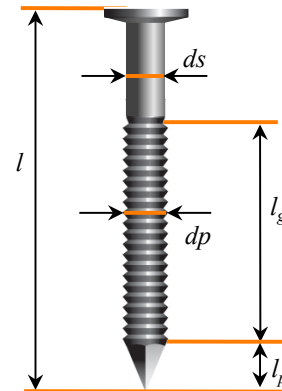
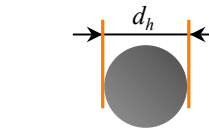
Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 2.1mm
- Profile diameter (d_p): 2.3mm
- Head diameter (d_h)*: 4.6mm (6mm pitch collation)
 5.0mm (6.8mm pitch collation)
 Other head diameters can be supplied to order
- Standard nail lengths*(l) / Profiled length*(l_g):-

l (mm)	27	30	32	35	40	45	50	55	60	65
l_g (mm)	17	20	22	25	30	35	40	45	50	55
- Diamond point length l_p : 3mm
- Standard point: diamond
- 120° chisel and divergent points to special order

• Tolerances according to EN14592 for nail length, nail diameter and head diameter
 • See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
---	--	------------------------------

19.49	6.71	1118
-------	------	------

Minimum embedment in base member: 13mm (lateral load)
 Minimum embedment in base member: 17mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.1mm diameter ring shank**
 Finish: **Electro-galvanised 12µm**
 Collation : **16° wire weld**

Suitable for these tools:-

6mm pitch collation; **Haubold RNC 50M**
Paslode CNW50.1
 6.8mm pitch collation; **Haubold RNC57,**
Paslode CNW65.1 **Toolmatic CW550**
 Nail lengths*: 25 to 65mm
 Nails per standard coil: 350
 (1000 / 1200 nail large coils also available)

For fixing timber, OSB or plywood to timber.



CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 2 Protected Outdoor	Electro-galvanised ≥ 12µm

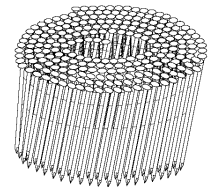
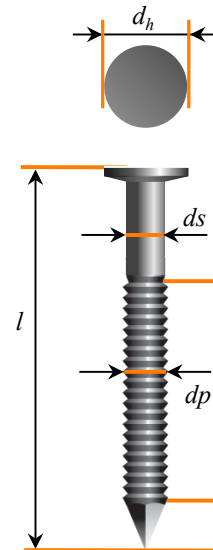
Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (*ds*)*: 2.1mm
- Profile diameter (*dp*): 2.3mm
- Head diameter (*dh*)*: 4.6mm (6mm pitch collation)
5.0mm (6.8mm pitch collation)
Other head diameters can be supplied to order
- Standard nail lengths*(*l*) / Profiled length*(*lg*):-

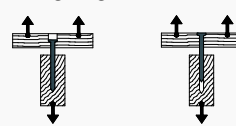
<i>l</i> (mm)	27	30	32	35	40	45	50	55	60	65
<i>lg</i> (mm)	17	20	22	25	30	35	40	45	50	55
- Diamond point length *lp*: 3mm
- Standard point: diamond
- 120° chisel and divergent points to special order

*Tolerances according to EN14592 for nail length, nail diameter and head diameter
 * See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through <i>f_{head,k}</i> [N/mm ²]	Withdrawal <i>f_{ax,k}</i> [N/mm ²]	Yield moment <i>M_{y,k}</i> [Nmm]
19.49	6.71	1118



Minimum embedment in base member: 13mm (lateral load)
 Minimum embedment in base member: 17mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.1mm diameter ring shank**
 Finish: **Hot Dip Galvanised**
 Collation : **16° wire weld**

Suitable for these tools:-

6mm pitch collation; **Haubold RNC 50M**
Paslode CNW50.1

Nail lengths*: 25 to 65mm
 Nails per standard coil: 350
 (1000 / 1200 nail large coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 3 Outdoor	Hot dip galvanised $\geq 55\mu\text{m}$

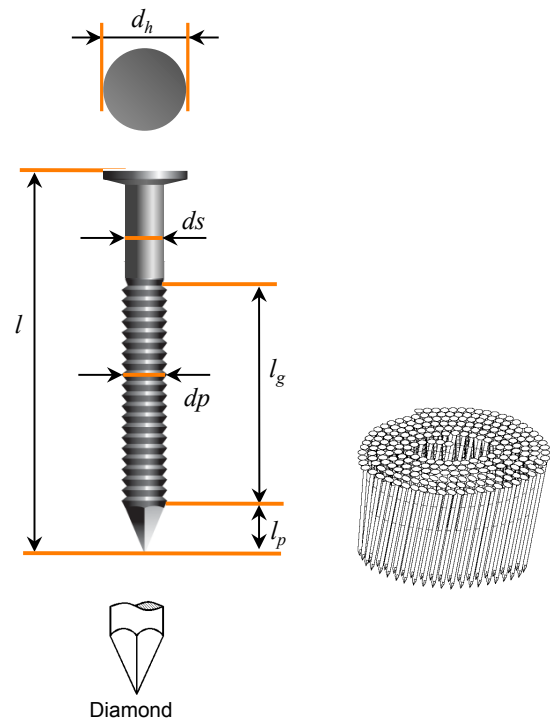
Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 2.1mm
- Profile diameter (d_p): 2.3mm
- Head diameter (d_h)*: 4.6mm
- Standard nail lengths*(l) / Profiled length*(l_g):-

l (mm)	45	50
l_g (mm)	35	40
- Point length l_p : 3mm
- Standard point: diamond

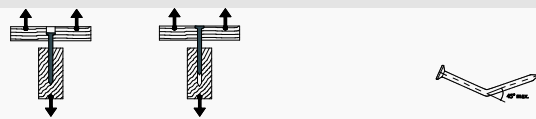
• Tolerances according to EN14592 for nail length, nail diameter and head diameter
 • See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
---	--	------------------------------

Please contact us for latest performance data



Minimum embedment in base member: 13mm (lateral load)
 Minimum embedment in base member: 17mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.1mm diameter ring shank**
 Finish: **Stainless Steel A2 - 304**
 Collation : **16° wire weld**

Suitable for these tools:-

6mm pitch collation; **Haubold RNC 50M**
Paslode CNW50.1
 6.8mm pitch collation; **Haubold RNC57,**
Paslode CNW65.1 **Toolmatic CW550**
 Nail lengths*: 25 to 65mm
 Nails per standard coil: 350
 (1000 / 1200 nail large coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 3 Outdoor	Stainless Steel A2 AISI-304

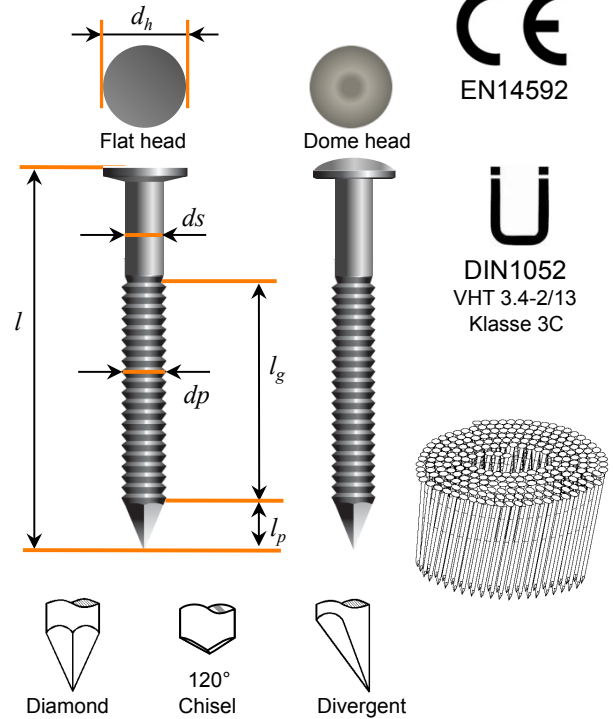
Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s): 2.1mm
- Profile diameter (d_p): 2.3mm
- Head diameter (d_h): 4.6mm (6mm pitch collation)
 5.0mm (6.8mm pitch collation)
 Other head diameters can be supplied to order
- Standard nail lengths* (l) / Profiled length* (l_g):-

l (mm)	27	30	35	40	45	50	55	60	65
l_g (mm)	17	20	25	30	35	40	45	50	55
- Diamond point length l_p : 3mm
- Standard point: diamond
- 120° chisel and divergent points to special order

• Tolerances according to EN14592 for nail length, nail diameter and head diameter
 • See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
19.49	8.26	1234

Minimum embedment in base member: 13mm (lateral load)
 Minimum embedment in base member: 17mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.1mm diameter ring shank**
 Finish: **Stainless Steel A4 - 316**
 Collation : **16° wire weld**

Suitable for these tools:-

6mm pitch collation; **Haubold RNC 50M**
Paslode CNW50.1

Nail lengths*: 45mm
 Nails per standard coil: 350
 (1000 / 1200 nail large coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 3 Outdoor	Stainless Steel A4 AISI-316

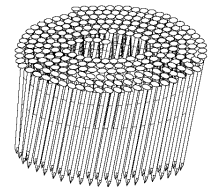
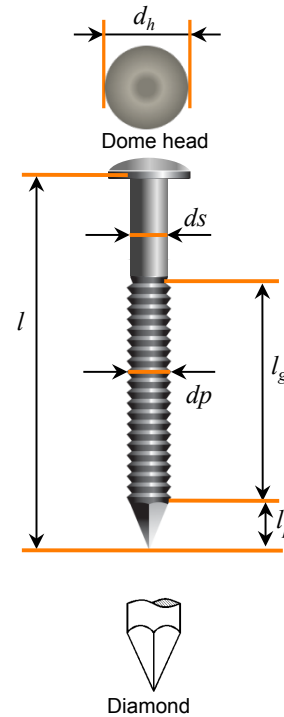
Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
 - Shank diameter (d_s): 2.1mm
 - Profile diameter (d_p): 2.3mm
 - Head diameter (d_h): 4.6mm
 - Standard nail lengths*(l) / Profiled length*(l_g):-
 l (mm) 45
 l_g (mm) 35
 - Point length l_p : 3mm
 - Standard point: diamond
- Tolerances according to EN14592 for nail length, nail diameter and head diameter
 • See tool manuals for min and max nail lengths

Haubold is a brand of the ITW Group
 ITW reserves the right to change specification without notice
 All design using this data should be carried out by a qualified structural engineer,
 subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
19.49	8.26	1234

Minimum embedment in base member: 13mm (lateral load)
 Minimum embedment in base member: 17mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.5mm diameter ring shank**
 Finish: **Bright**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

Haubold RNC 50 S/W , RNC65 S/WII, RNC70

Paslode CNW65.1, CNW70.1

Toolmatic CW550

Nail lengths*: 35 to 75mm

Nails per standard coil: 300

(720 / 800 / 900 / 2500 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Bright (no protection)

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
 - Shank diameter (d_s)*: 2.5mm
 - Profile diameter (d_p): 2.7mm
 - Head diameter (d_h)*: 6.1mm
 - Standard nail lengths*(l) / Profiled length*(l_g):-
- | l (mm) | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
|------------|----|----|----|----|----|----|----|----|----|
| l_g (mm) | 24 | 29 | 34 | 39 | 44 | 49 | 54 | 59 | 64 |
- Diamond point length l_p : 3.5mm
 - Standard point: diamond
 - 120° chisel and divergent points to special order

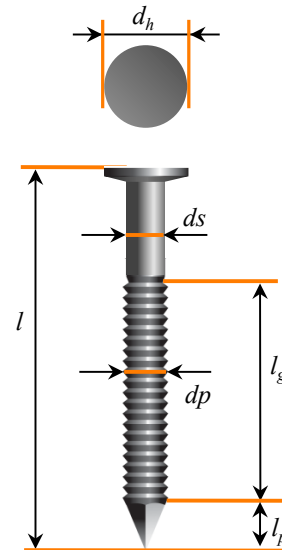
- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

Haubold is a brand of the ITW Group

ITW reserves the right to change specification without notice

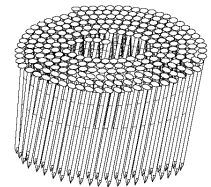
All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



CE
EN14592

U
DIN1052
VHT 3.4-2/07
Klasse 3C



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
--	---	---------------------------------

20.91	7.58	1870
-------	------	------

Minimum embedment in base member: 15mm (lateral load)
 Minimum embedment in base member: 20mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.5mm diameter ring shank**
 Finish: **Electro-galvanised 5µm**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

Haubold RNC 50 S/W , RNC65 S/WII, RNC70

Paslode CNW65.1, CNW70.1

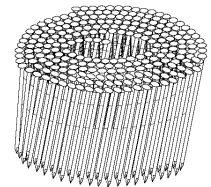
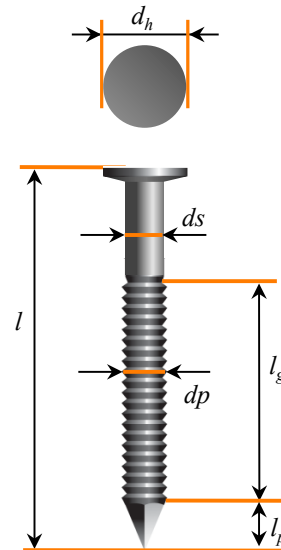
Toolmatic CW550

Nail lengths*: 35 to 75mm

Nails per standard coil: 300

(720 / 800 / 900 / 2500 nail coils also available)

For fixing timber, OSB or plywood to timber



CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Electro-galvanised $\geq 5\mu\text{m}$

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
 - Shank diameter (d_s)*: 2.5mm
 - Profile diameter (d_p): 2.7mm
 - Head diameter (d_h)*: 6.1mm
 - Standard nail lengths*(l) / Profiled length*(l_g):-
- | l (mm) | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
|------------|----|----|----|----|----|----|----|----|----|
| l_g (mm) | 24 | 29 | 34 | 39 | 44 | 49 | 54 | 59 | 64 |
- Diamond point length l_p : 3.5mm
 - Standard point: diamond
 - 120° chisel and divergent points to special order

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
---	--	------------------------------

20.91	7.20	1870

Minimum embedment in base member: 15mm (lateral load)
 Minimum embedment in base member: 20mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³

Haubold is a brand of the ITW Group

ITW reserves the right to change specification without notice

All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



Nail type: **2.5mm diameter ring shank**
 Finish: **Electro-galvanised 12µm**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

Haubold RNC 50 S/W , RNC65 S/WII, RNC70

Paslode CNW65.1, CNW70.1

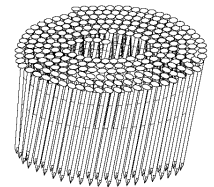
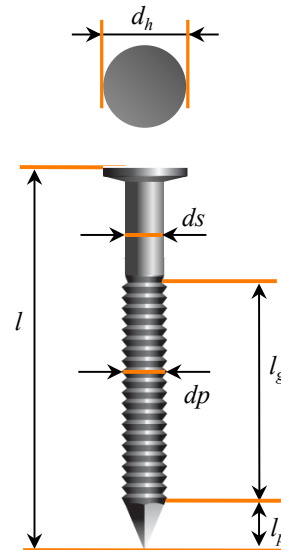
Toolmatic CW550

Nail lengths*: 35 to 75mm

Nails per standard coil: 300

(720 / 800 / 900 / 2500 nail coils also available)

For fixing timber, OSB or plywood to timber



CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 2	Electro-galvanised $\geq 12\mu\text{m}$
	Protected Outdoor	

Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
 - Shank diameter (d_s)*: 2.5mm
 - Profile diameter (d_p): 2.7mm
 - Head diameter (d_h)*: 6.1mm
 - Standard nail lengths*(l)/ Profiled length*(l_g):-
- | l (mm) | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
|------------|----|----|----|----|----|----|----|----|----|
| l_g (mm) | 24 | 29 | 34 | 39 | 44 | 49 | 54 | 59 | 64 |
- Diamond point length l_p : 3.5mm
 - Standard point: diamond
 - 120° chisel and divergent points to special order

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
20.91	7.20	1870

Minimum embedment in base member: 15mm (lateral load)
 Minimum embedment in base member: 20mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.5mm diameter ring shank**
 Finish: **Stainless Steel A2 - 304**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

Haubold RNC 50 S/W , RNC65 S/WII, RNC70

Paslode CNW65.1, CNW70.1

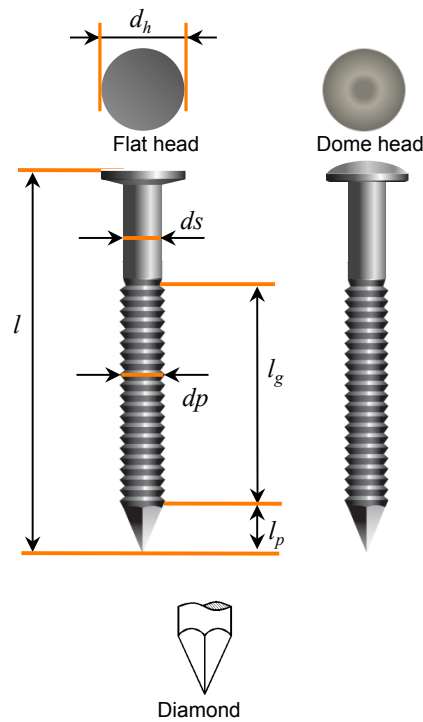
Toolmatic CW550

Nail lengths*: 45 to 65mm

Nails per standard coil: 300

(720 / 800 / 900 / 2500 nail coils also available)

For fixing timber, OSB or plywood to timber



CE
EN14592

U
DIN1052
VHT 3.4-2/14
Klasse 3C

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 3 Outdoor	Stainless Steel A2 AISI-304

Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 2.5mm
- Profile diameter (d_p): 2.7mm
- Head diameter (d_h)*: 6.1mm
- Standard nail lengths*(l)/ Profiled length*(l_g);-

l (mm)	45	50	55	60	65
l_g (mm)	34	39	44	49	54
- Point length l_p : 3.5mm
- Standard point: diamond
- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
20.91	7.66	2349

Minimum embedment in base member: 15mm (lateral load)
 Minimum embedment in base member: 20mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³

Haubold is a brand of the ITW Group

ITW reserves the right to change specification without notice

All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



Nail type: **2.8mm diameter ring shank**
 Finish: **Bright**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:- Haubold RNC65 S/WII, RNC75 S/W, RNC90 WII, RNC90 B-S/W, RNC70, RNC83

Paslode CNW70.1, CNW90 Toolmatic CW550

Nail lengths*: 36 to 90mm

Nails per standard coil: 250

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Bright (no protection)

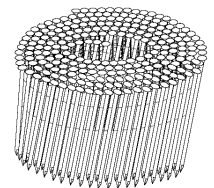
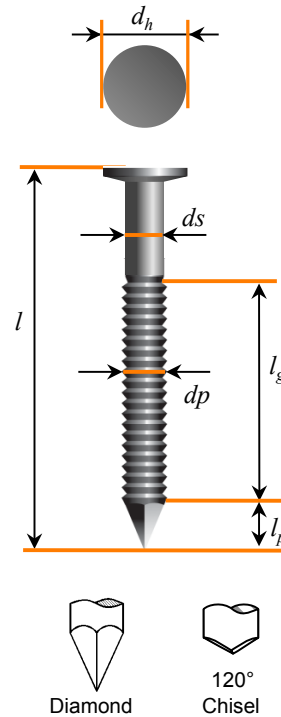
Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 2.8mm
- Profile diameter (d_p): 3.0mm
- Head diameter (d_h)*: 6.7mm
- Standard nail lengths* (l) / Profiled length* (l_g):-

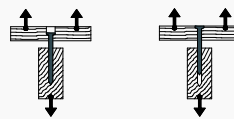
l (mm)	36	45	50	55	60	65	70	75	80	85	90
l_g (mm)	25	34	39	44	49	54	59	64	69	71	71
- Diamond point length l_p : 3.9mm
- Standard point: diamond
- 120° chisel points to special order

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
21.64	6.85	2673



Minimum embedment in base member: 17mm (lateral load)
 Minimum embedment in base member: 23mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.8mm diameter ring shank**
 Finish: **Electro-galvanised 5µm**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:- Haubold RNC65 S/WII, RNC75 S/W, RNC90 WII, RNC90 B-S/W, RNC70, RNC83

Paslode CNW70.1, CNW90 , Toolmatic CW550

Nail lengths*: 36 to 90mm

Nails per standard coil: 250

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Electro-galvanised $\geq 5\mu\text{m}$

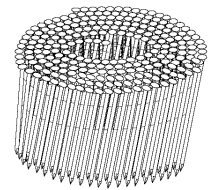
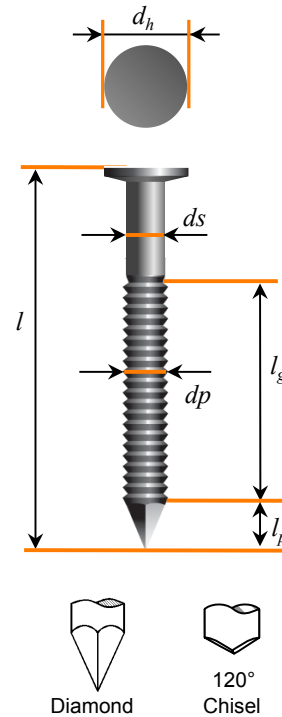
Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 2.8mm
- Profile diameter (d_p): 3.0mm
- Head diameter (d_h)*: 6.7mm
- Standard nail lengths*(l)/Profiled length*(l_g):-

l (mm)	45	50	55	60	65	70	75	80	85	90
l_g (mm)	34	39	44	49	54	59	64	69	71	71
- Diamond point length l_p : 3.9mm
- Standard point: diamond
- 120° chisel points to special order

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
21.64	7.34	2673

Minimum embedment in base member: 17mm (lateral load)
 Minimum embedment in base member: 23mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.8mm diameter ring shank**
 Finish: **Electro-galvanised 12µm**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:- Haubold RNC65 S/WII, RNC75 S/W, RNC90 WII, RNC90 B-S/W, RNC70, RNC83

Paslode CNW70.1, CNW90 , Toolmatic CW550

Nail lengths*: 36 to 90mm

Nails per standard coil: 250

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 2	Electro-galvanised
	Protected Outdoor	$\geq 12\mu\text{m}$

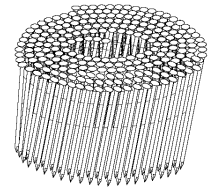
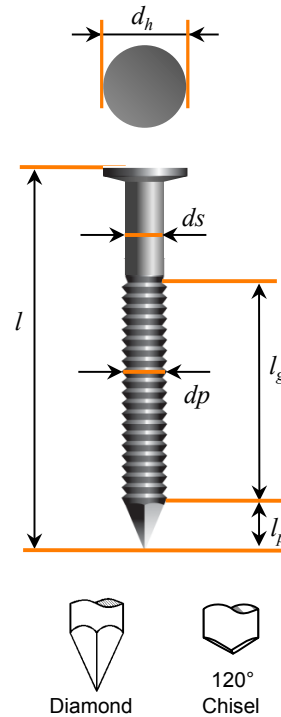
Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 2.8mm
- Profile diameter (d_p): 3.0mm
- Head diameter (d_h)*: 6.7mm
- Standard nail lengths*(l)/Profiled length*(l_g):-

l (mm)	45	50	55	60	65	70	75	80	85	90
l_g (mm)	34	39	44	49	54	59	64	69	71	71
- Diamond point length l_p : 3.9mm
- Standard point: diamond
- 120° chisel points to special order

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
21.64	7.34	2673

Minimum embedment in base member: 17mm (lateral load)
 Minimum embedment in base member: 23mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **2.8mm diameter ring shank**
 Finish: **Stainless Steel A2 - 304**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:- Haubold RNC65 S/WII, RNC75 S/W, RNC90 WII, RNC90 B-S/W, RNC70, RNC83

Paslode CNW70.1, CNW90 Toolmatic CW550

Nail lengths*: 36 to 90mm

Nails per standard coil: 250

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 3 Outdoor	Stainless Steel A2 AISI-304

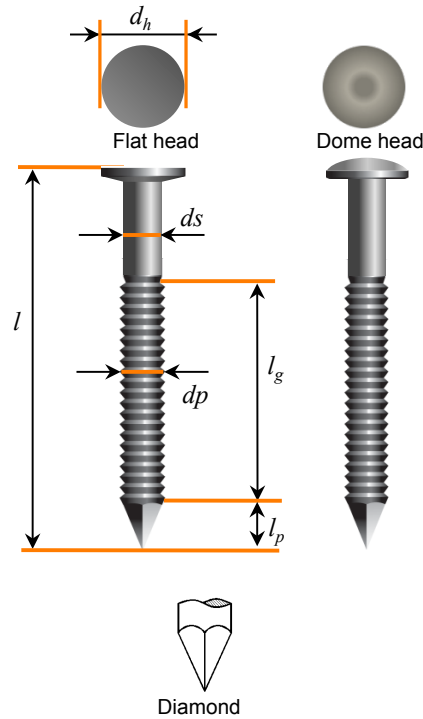
Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 2.8mm
- Profile diameter (d_p): 3.0mm
- Head diameter (d_h)*: 6.7mm
- Standard nail lengths*(l)/Profiled length*(l_g):-

l (mm)	45	50	55	60	65	70	75	80	85	90
l_g (mm)	34	39	44	49	54	59	64	69	71	71
- Diamond point length l_p : 3.9mm
- Standard point: diamond
- 120° chisel points to special order

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
21.64	7.33	3426

Minimum embedment in base member: 17mm (lateral load)
 Minimum embedment in base member: 23mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³

Haubold is a brand of the ITW Group

ITW reserves the right to change specification without notice

All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



Nail type: **2.8mm diameter ring shank**
 Finish: **Stainless Steel A4 - 316**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:- Haubold RNC65 S/WII, RNC75 S/W, RNC90 WII, RNC90 B-S/W, RNC70, RNC83

Paslode CNW70.1, CNW90 , Toolmatic CW550

Nail lengths*: 36 to 90mm

Nails per standard coil: 250

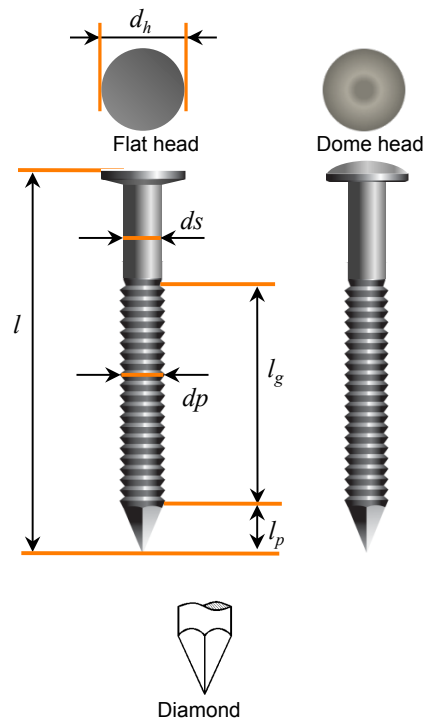
(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 3 Outdoor	Stainless Steel A4 AISI-316

Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.



CE
EN14592

U
DIN1052
VHT 3.4-2/15
Klasse 3C

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 2.8mm
- Profile diameter (d_p): 3.0mm
- Head diameter (d_h)*: 6.7mm
- Standard nail lengths*(l) / Profiled length*(l_g);-
 l (mm) 65
 l_g (mm) 54
- Point length l_p : 3.9mm
- Standard point: diamond

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
21.64	7.33	3426

Minimum embedment in base member: 17mm (lateral load)
 Minimum embedment in base member: 23mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³

Haubold is a brand of the ITW Group

ITW reserves the right to change specification without notice

All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



Nail type: **3.1mm diameter ring shank**
 Finish: **Bright**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-


**Haubold RNC75 S/W, RNC90 WII,
 RNC90 B-S/W, RNC83**

Paslode CNW70.1, CNW90


Nail lengths*: 40 to 90mm

Nails per standard coil: 225

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber 

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1 	Bright (no protection)

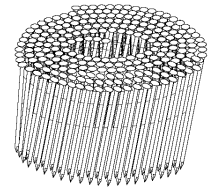
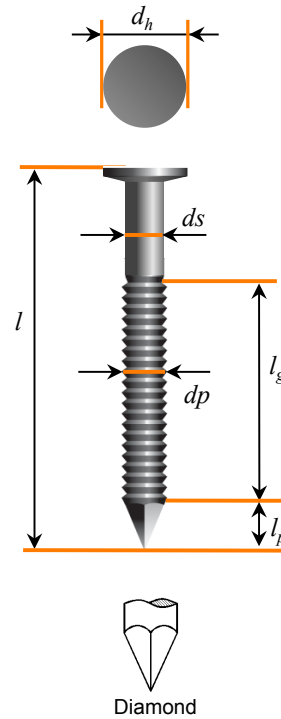
Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 3.1mm
- Profile diameter (d_p): 3.3mm
- Head diameter (d_h)*: 7.1mm
- Standard nail lengths* (l) / Profiled length* (l_g);-

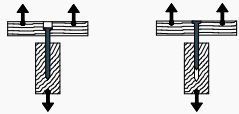
l (mm)	50	55	60	65	70	75	80	85	90
l_g (mm)	39	44	49	54	59	64	69	71	71
- Point length l_p : 3.4mm
- Standard point: diamond

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
15.37	6.87	3210



Minimum embedment in base member: 19mm (lateral load)
 Minimum embedment in base member: 25mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **3.1mm diameter ring shank**
 Finish: **Electro-galvanised 5µm**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

**Haubold RNC75 S/W, RNC90 WII,
 RNC90 B-S/W, RNC83**

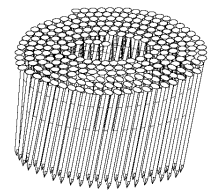
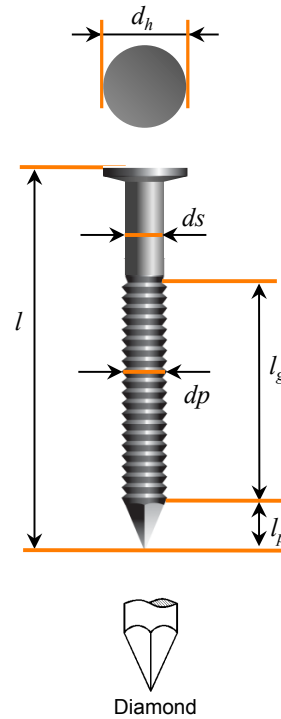
Paslode CNW70.1, CNW90

Nail lengths*: 40 to 90mm

Nails per standard coil: 225

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber



CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Electro-galvanised $\geq 5\mu\text{m}$

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 3.1mm
- Profile diameter (d_p): 3.3mm
- Head diameter (d_h)*: 7.1mm
- Standard nail lengths*(l) / Profiled length*(l_g);-

l (mm)	50	55	60	65	70	75	80	85	90
l_g (mm)	39	44	49	54	59	64	69	71	71
- Point length l_p : 3.4mm
- Standard point: diamond

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
15.37	7.99	3210

Minimum embedment in base member: 19mm (lateral load)
 Minimum embedment in base member: 25mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³

Haubold is a brand of the ITW Group
 ITW reserves the right to change specification without notice
 All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations



Nail type: **3.1mm diameter ring shank**
 Finish: **Electro-galvanised 12µm**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

**Haubold RNC75 S/W, RNC90 WII,
 RNC90 B-S/W, RNC83**

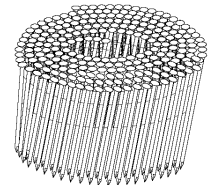
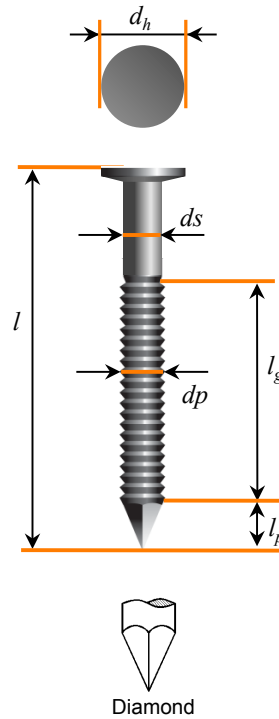
Paslode CNW70.1, CNW90

Nail lengths*: 40 to 90mm

Nails per standard coil: 225

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber



CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 2	Electro-galvanised $\geq 12\mu\text{m}$
	Protected Outdoor	

Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 3.1mm
- Profile diameter (d_p): 3.3mm
- Head diameter (d_h)*: 7.1mm
- Standard nail lengths*(l)/ Profiled length*(l_g);-

l (mm)	50	55	60	65	70	75	80	85	90
l_g (mm)	39	44	49	54	59	64	69	71	71
- Point length l_p : 3.4mm
- Standard point: diamond

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
15.37	7.99	3210

Minimum embedment in base member: 19mm (lateral load)
 Minimum embedment in base member: 25mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³



Nail type: **3.1mm diameter ring shank**
 Finish: **Stainless Steel A2 - 304**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

**Haubold RNC75 S/W, RNC90 WII,
 RNC90 B-S/W, RNC83**

Paslode CNW70.1, CNW90

Nail lengths*: 40 to 90mm

Nails per standard coil: 225

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 3 Outdoor	Stainless Steel A2 AISI-304

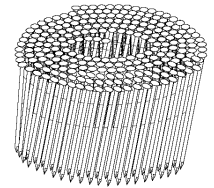
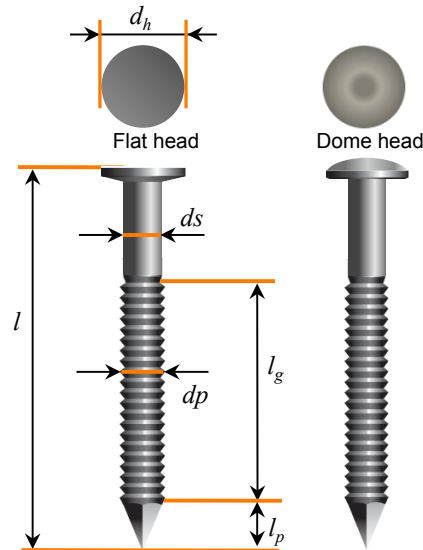
Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 3.1mm
- Profile diameter (d_p): 3.3mm
- Head diameter (d_h)*: 7.1mm
- Standard nail lengths*(l)/ Profiled length*(l_g);-

l (mm)	50	55	60	65	70	75	80	85	90
l_g (mm)	39	44	49	54	59	64	69	71	71
- Diamond point length l_p : 3.4mm
- Standard point: diamond
- Short diamond point available to special order

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
15.37	8.41	4007

Minimum embedment in base member: 19mm (lateral load)
 Minimum embedment in base member: 25mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³

Haubold is a brand of the ITW Group

ITW reserves the right to change specification without notice

All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



Nail type: **3.1mm diameter ring shank**
 Finish: **Stainless Steel A4 - 316**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

**Haubold RNC75 S/W, RNC90 WII,
 RNC90 B-S/W, RNC83**

Paslode CNW70.1, CNW90

Nail lengths*: 40 to 90mm

Nails per standard coil: 225

(600 / 800 / 900 nail coils also available)

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

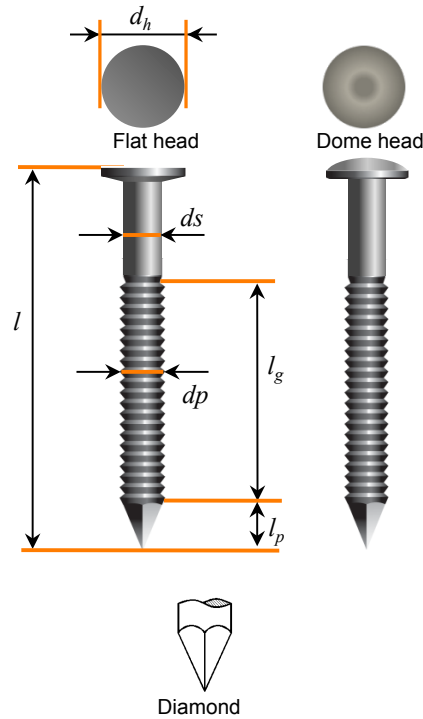
Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 3 Outdoor	Stainless Steel A4 AISI-316

Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 3.1mm
- Profile diameter (d_p): 3.3mm
- Head diameter (d_h)*: 7.1mm
- Standard nail lengths*(l)/ Profiled length*(l_g);-
 l (mm) 90
 l_g (mm) 71
- Diamond point length l_p : 3.4mm
- Standard point: diamond
- Short diamond point available to special order

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

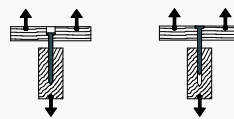


CE
EN14592

U
DIN1052
VHT 3.4-2/16
Klasse 3C

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
15.37	8.41	4007



Minimum embedment in base member: 19mm (lateral load)
 Minimum embedment in base member: 25mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³

Haubold is a brand of the ITW Group

ITW reserves the right to change specification without notice

All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



Nail type: **3.4mm diameter ring shank**
 Finish: **Bright**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-

Haubold RNC90 WII, RNC90 B-S/W
Paslode CNW90

Nail lengths*: 90mm

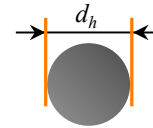
Nails per standard coil: 200

For fixing timber, OSB or plywood to timber

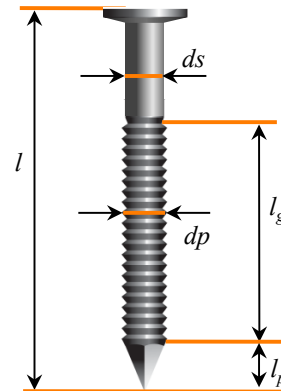
CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Bright (no protection)

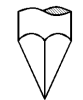
Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.



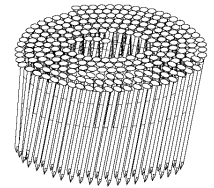
CE
EN14592



U
DIN1052
VHT 3.4-2/17
Klasse 3C



Diamond



NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 3.4mm
- Profile diameter (d_p): 3.6mm
- Head diameter (d_h)*: 7.1mm
- Standard nail lengths*(l)/ Profiled length*(l_g);-
 l (mm) 90
 l_g (mm) 71
- Point length l_p : 3.8mm
- Standard point: diamond

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
15.26	7.24	4441

Minimum embedment in base member: 21mm (lateral load)
 Minimum embedment in base member: 28mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³

Haubold is a brand of the ITW Group

ITW reserves the right to change specification without notice

All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



Nail type: **3.4mm diameter ring shank**
 Finish: **Electro-galvanised 5µm**
 Collation : **16° wire weld**

Pitch collation: 8mm

Suitable for these tools:-
Haubold RNC90 WII, RNC90 B-S/W
Paslode CNW90

Nail lengths*: 90mm
 Nails per standard coil: 200

For fixing timber, OSB or plywood to timber

CORROSION PROTECTION

Label colour on packaging	Eurocode 5 service class	Finish
	Service Class 1	Electro-galvanised $\geq 5\mu\text{m}$

Indoor use
 Eurocode 5 only details minimum protection, it does not consider local environmental conditions, we recommend that you refer to ISO12944 part 2 to determine the appropriate corrosion protection. See appendix for details.

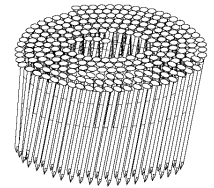
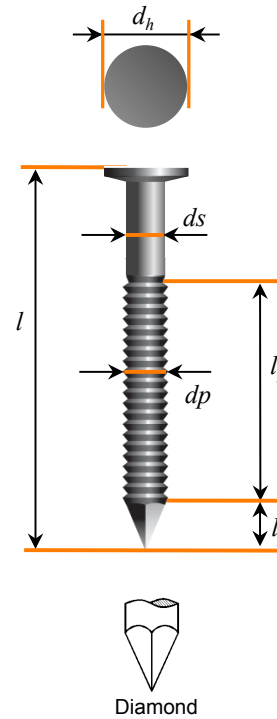
NAIL PROPERTIES / DIMENSIONS

- Tensile strength of wire: min 700 N/mm²
- Shank diameter (d_s)*: 3.4mm
- Profile diameter (d_p): 3.6mm
- Head diameter (d_h)*: 7.1mm
- Standard nail lengths*(l)/ Profiled length*(l_g);-
 l (mm) 90
 l_g (mm) 71
- Point length l_p : 3.8mm
- Standard point: diamond

- Tolerances according to EN14592 for nail length, nail diameter and head diameter
- See tool manuals for min and max nail lengths

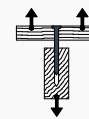
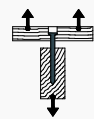
Haubold is a brand of the ITW Group
 ITW reserves the right to change specification without notice
 All design using this data should be carried out by a qualified structural engineer, subject to relevant National and European standards or regulations

Issue date 22.02.2011 © ITW



CHARACTERISTIC PARAMETERS FOR CALCULATION TO EUROCODE 5

Head pull-through $f_{head,k}$ [N/mm ²]	Withdrawal $f_{ax,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]
15.26	8.74	4441



Minimum embedment in base member: 21mm (lateral load)
 Minimum embedment in base member: 28mm (axial load)

See Datasheet Appendix for guidance on spacing etc.. and Eurocode 5 for complete rules on timber member dimensions etc..

- To obtain characteristic head pull-through capacity multiply factor by d_h^2
- For withdrawal capacity multiply factor by base material embedment (excluding tip length) and fastener nominal diameter
- Values based on characteristic wood density of 350kg/m³