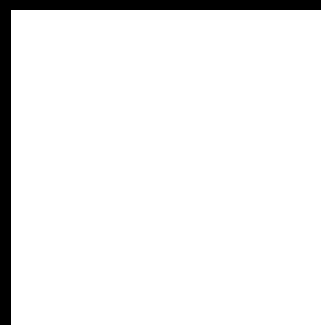
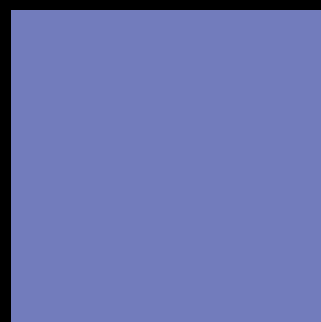
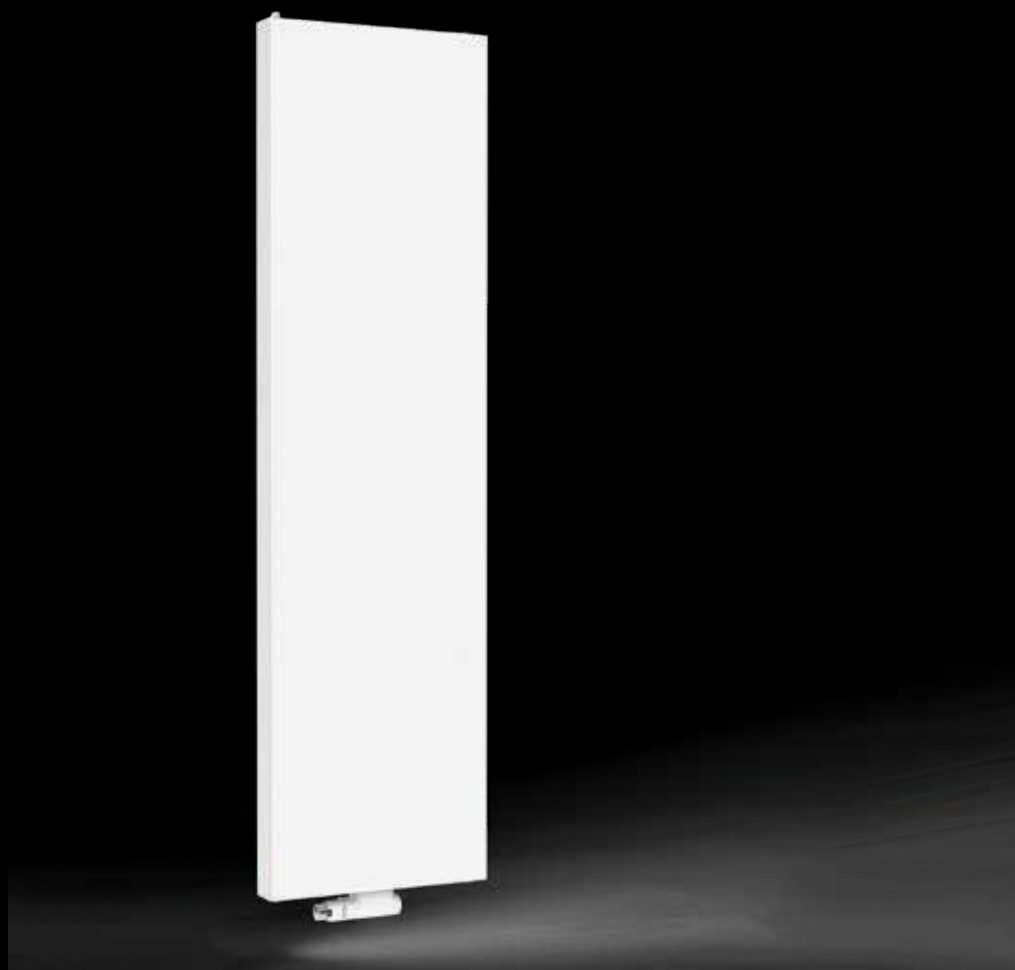




**HENRAD**

# DISCOVER ALTO PLAN

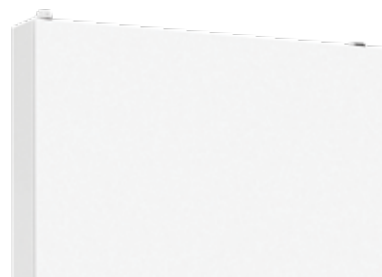
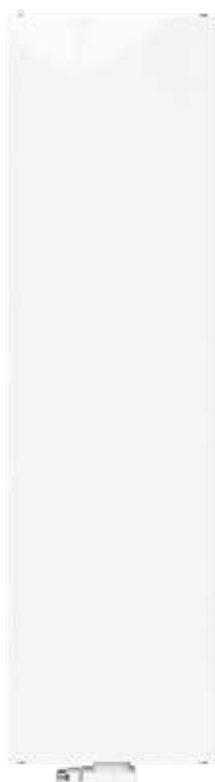


## GENERAL INFORMATION

### ALTO PLAN

The Alto Plan combines a sleek and decorative appearance and is perfect for applications where wall space is at a premium. This radiator can be perfectly combined with the Everest Plan 8 and Compact Plan models to provide a modern design and consistent look throughout your home.

Product:	the decorative vertical radiator with a centre connection and a flat front
Finishing:	decorative flat front and side panels
Also supplied:	wall brackets, ETA safety screws and plugs, screws, plugs, air vent, blind plugs and installation instructions
Connections:	4 x ½" female connection (centre connection included)
Lugs:	no lugs
Packaging:	Every radiator is sturdily packaged in high-quality cardboard and wrapped in plastic. The radiator's characteristics are shown on the label: type – height – length.
Warranty:	10 years, as long as the installation instructions have been followed and Henrad's warranty conditions have been met.
Paint process:	All radiators are degreased, phosphated, cathodically primed and powder-coated in Henrad white 9016 as standard.
Colours:	Henrad white 9016 + 35 different Henrad colours and about 200 RAL-colours are possible
Max. operating pressure:	10 bar (tested to 13 bar)
Max. operating temperature:	110 °C
Conformity:	in accordance with EN442
Quality assurance:	NF
Types:	11   20   21   22
Heights:	1.600   1.800   2.000   2.200 mm
Lengths:	300   400   500   600   700 mm
Depths:	49   79   79   102 mm



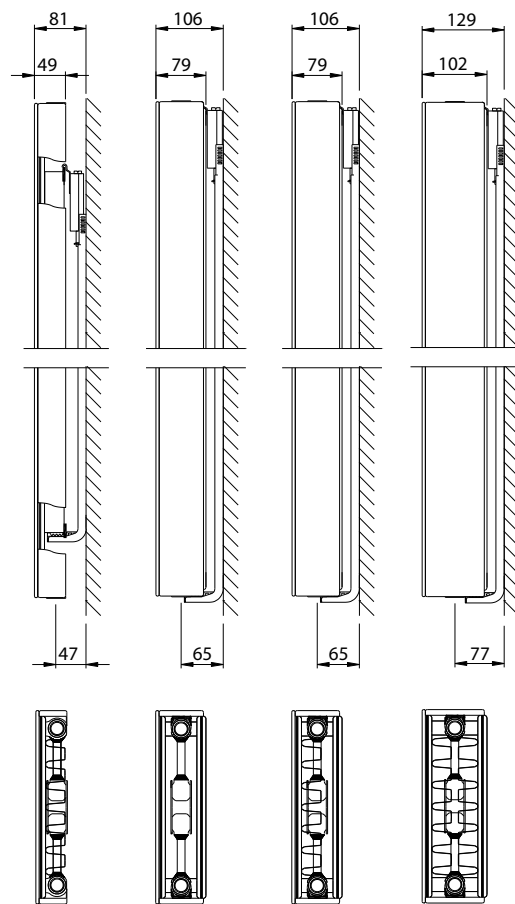
2006

## TYPE OVERVIEW

Calculation factor  
per meter  
at 75/65/20°C  
according to EN442

Characteristic equation:

$$\Phi = K_M \times \Delta T^n$$



Height		T11	T20	T21	T22	Height
<b>1600</b>	W	1.959	2.310	2.808	3.420	<b>1600</b>
	kg	56,10	77,70	85,80	94,20	
	l	7,20	14,10	14,10	14,10	
	m <sup>2</sup>	9,40	7,33	12,66	28,99	
	n	1,31	1,27	1,31	1,32	
<b>1800</b>	W	2.133	2.532	3.060	3.690	<b>1800</b>
	kg	63,00	86,70	96,00	105,30	
	l	8,10	16,20	15,90	15,90	
	m <sup>2</sup>	9,86	8,25	13,58	29,90	
	n	1,30	1,27	1,30	1,33	
<b>2000</b>	W	2.298	2.748	3.270	3.960	<b>2000</b>
	kg	69,60	95,40	106,20	116,40	
	l	9,00	18,30	17,70	17,70	
	m <sup>2</sup>	12,15	9,17	16,20	37,74	
	n	1,30	1,27	1,30	1,33	
<b>2200</b>	W	2.454	2.958	3.510	4.230	<b>2200</b>
	kg	75,60	105,60	116,40	126,60	
	l	9,90	20,10	20,10	20,10	
	m <sup>2</sup>	12,61	10,09	17,11	38,66	
	n	1,29	1,27	1,30	1,33	

W=heat output per meter / kg=weight per meter / l=content per meter / m<sup>2</sup>=surface per meter / n=exponent  
The manufacturer reserves the right to alter any of the specifications shown in this document without prior notice.

## ALTO PLAN

HEAT OUTPUTS IN WATT ACCORDING TO EN442



On the label: Art. 0275 18 22 05  
VERTICAL PLAN T11-22: 0275 H1800 T22 L500

EN442 (W) 70/50/20°C

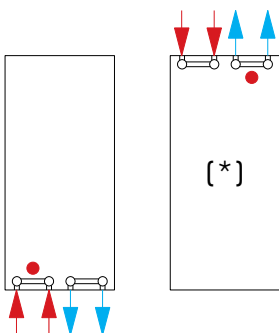
EN442 (W) 55/45/20°C

Height	1600				1800				2000				2200				Height
Type	11	20	21	22	11	20	21	22	11	20	21	22	11	20	21	22	Type
<b>300</b>	439 302 0275161103	522 362 0275162003	629 432 0275162103	764 522 0275162203	479 329 0275181103	572 397 0275182003	686 472 0275182103	824 563 0275182203	516 355 0275201103	620 430 0275202003	734 505 0275202103	883 603 0275202203	552 380 0275221103	668 463 0275222003	788 543 0275222103	943 643 0275222203	<b>300</b>
<b>400</b>	586 403 0275161104	696 483 0275162004	839 576 0275162104	1.018 696 0275162204	638 439 0275181104	763 529 0275182004	915 629 0275182104	1.098 750 0275182204	688 474 0275201104	827 574 0275202004	979 673 0275202104	1.178 804 0275202204	736 507 0275221104	891 618 0275222004	1.051 724 0275222104	1.257 858 0275222204	<b>400</b>
<b>500</b>	732 503 0275161105	870 604 0275162005	1.049 720 0275162105	1.273 870 0275162205	797 548 0275181105	953 661 0275182005	1.144 786 0275182105	1.373 938 0275182205	860 592 0275201105	1.034 717 0275202005	1.223 841 0275202105	1.472 1.005 0275202205	920 634 0275221105	1.113 772 0275222005	1.314 905 0275222105	1.572 1.072 0275222205	<b>500</b>
<b>600</b>	878 603 0275161106	1.044 724 0275162006	1.259 864 0275162106	1.528 1.044 0275162206	957 659 0275181106	1.144 793 0275182006	1.372 943 0275182106	1.647 1.125 0275182206	1.032 711 0275201106	1.242 861 0275202006	1.468 1.010 0275202106	1.767 1.206 0275202206	1.103 761 0275221106	1.336 927 0275222006	1.577 1.086 0275222106	1.886 1.286 0275222206	<b>600</b>
<b>700</b>	1.025 704 0275161107	1.218 845 0275162007	1.468 1.008 0275162107	1.782 1.218 0275162207	1.117 768 0275181107	1.334 926 0275182007	1.601 1.100 0275182107	1.922 1.313 0275182207	1.205 830 0275201107	1.449 1.005 0275202007	1.712 1.178 0275202107	2.061 1.407 0275202207	1.287 888 0275221107	1.559 1.081 0275222007	1.839 1.267 0275222107	2.200 1.501 0275222207	<b>700</b>

Core assortment (Henrad white 9016) available ex factory within 10 days.  
Core assortment is subject to change, please refer to [www.henrad.eu](http://www.henrad.eu) for the latest information.  
Delivery time depends on the model, please refer to your distributor.

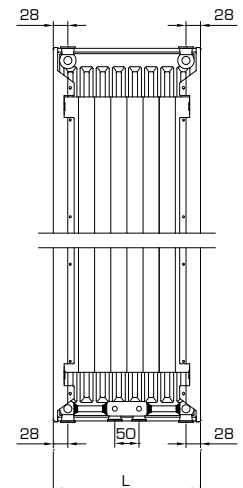
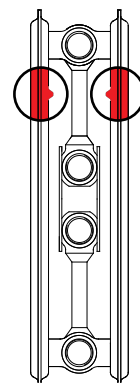
### CONNECTION POSSIBILITIES

View: front of radiator

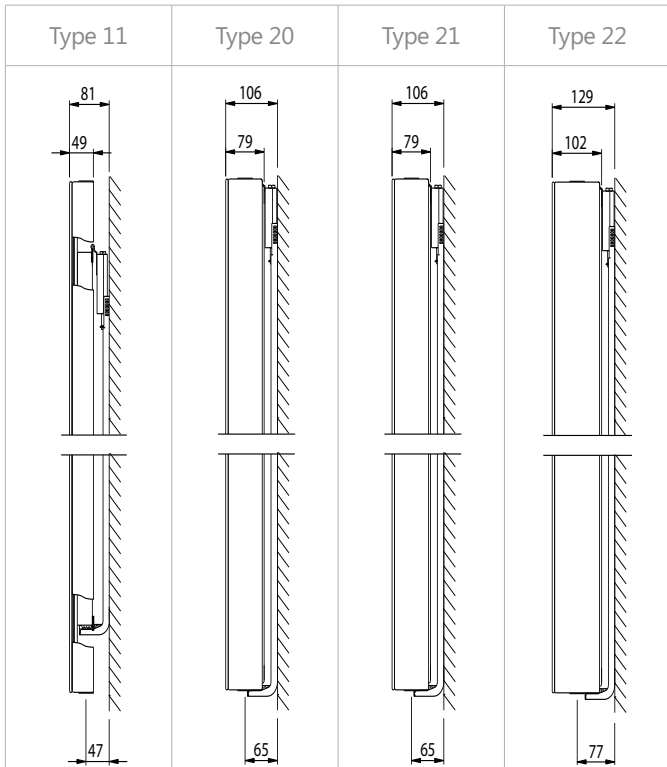


(\*) With these connection options, both the supply and return must be vented.  
Top connection allowed provided there is a temperature difference between flow and return of maximum 20°C.

flow lock ●



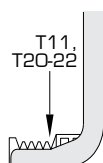
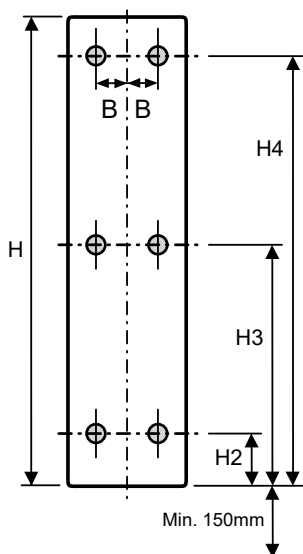
# WALL BRACKETS



Nominal Height (mm)	Type 11			Types 20-22		
	H2	H3	H4	H2	H3	H4
<b>1600</b>	160	730	1300	70	740	1410
<b>1800</b>	160	830	1500	70	840	1610
<b>2000</b>	160	930	1700	70	940	1810
<b>2200</b>	160	1030	1900	70	1040	2010

Nominal Length (mm)	Type 11	Types 20-22
	B	B
<b>L 300</b>	50	60
<b>L 400</b>	80	110
<b>L 500</b>	130	160
<b>L 600</b>	180	210
<b>L 700</b>	230	260

Types 11-22



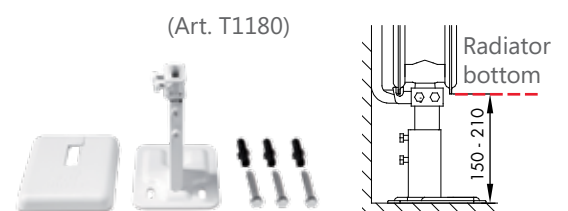
Always refer to the installation instructions and safety regulations before mounting a radiator!

An additional floor support for vertical radiators (types 20-22) is available for weak walls.

A professional inspection of the wall should always be conducted prior to mounting the radiator.

**ATTENTION:**

Always to be used in combination with the supplied wall brackets!



# VALVED DESIGN CONNECTION FITTING

## SPECIFICATIONS

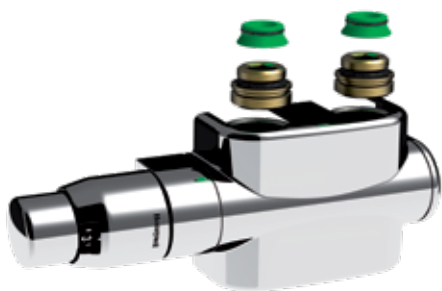
- design cover
- design thermostatic head
- 2x 3/4" - 1/2" reduction
- 2x conical adapter
- Inlet on thermostatic head side
- valve with adjustable Kv (8 presettings)
- maximum operating temperature: 90°C
- maximum operating pressure: 6 bar
- maximum tightening torque: 35 Nm
- body in white high-quality plastic

The valve cannot be replaced.  
For two-pipe systems, not suitable for one-pipe systems.



## DESIGN CONNECTION SET STRAIGHT PIPING WITH LEFT HANDED VALVE

Art. N°. T2121 - white  
Art. N°. T2122 - chrome



## DESIGN CONNECTION SET ANGLE PIPING WITH LEFT HANDED VALVE

Art. N°. T2123 - white  
Art. N°. T2124 - chrome

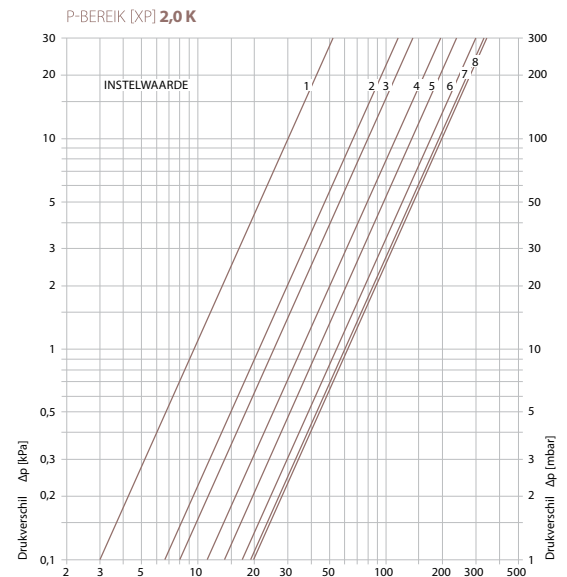
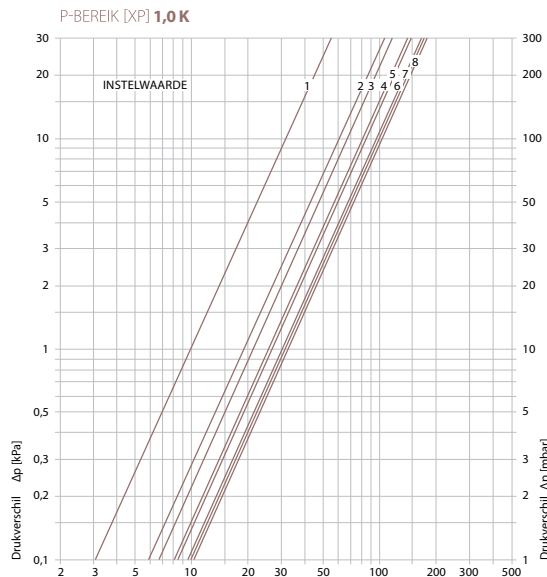


# VALVED DESIGN CONNECTION FITTING

## ADJUSTMENT OF THE VALVED CONNECTION FITTING



Voorinstelling	p-bereik xp 2,0 K	p-bereik xp 1,0 K
1	0,10	0,10
2	0,21	0,19
3	0,26	0,21
4	0,36	0,25
5	0,44	0,27
6	0,54	0,32
7	0,60	0,32
8	0,61	0,33



## LOCK FUNCTION

The lock function can be used to lock the radiator without shutting down the heating system.

The valved design connection fitting closes the inlet and outlet by closing the closing screw and the thermostatic head.

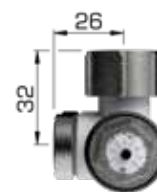


## MOUNTING DIMENSIONS

The supplied adapters enable the connection fitting to be fitted on the most commonly used connections:

- 3/4" external thread with flat sealing,
- 3/4" external thread Eurocone
- 1/2" internal thread.

The mounting dimensions are also valid for the connection fittings without valve.



3/4" external thread with flat sealing



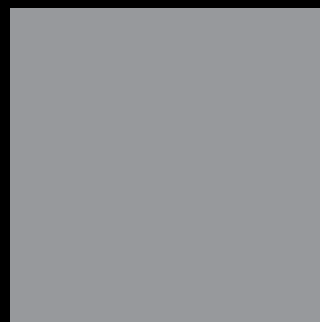
3/4" external thread Eurocone



1/2" internal thread



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**HENRAD**

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