BPA RED

- Gravity 14.2 BLG
- ABV ----
- IBU **25**
- SRM **12.6**
- Style Belgian Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 90 min
- Evaporation rate 6.5 %/h
- Boil size 23 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.1 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 19.9 liter(s)

Steps

- Temp 66 C, Time 1 min
 Temp 63 C, Time 45 min
 Temp 72 C, Time 15 min
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up 15 liter(s) of strike water to 70C
- Add grains
- Keep mash 45 min at 63C
- Keep mash 1 min at 66C
- Keep mash 15 min at 72C
- Keep mash 2 min at 78C
- Sparge using 12.9 liter(s) of 76C water or to achieve 23 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Karmel 600	0.05 kg <i>(1%)</i>	68 %	600
Grain	Pale Ale	3 kg (61.9%)	80 %	4
Grain	Pilzneński	0.8 kg <i>(16.5%)</i>	81 %	4
Grain	Weyermann - Melanoiden Malt	0.2 kg <i>(4.1%)</i>	81 %	80
Grain	Melanoiden Malt	0.8 kg <i>(16.5%)</i>	80 %	39

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	5 g	80 min	4.5 %
Boil	Challenger	4 g	80 min	7 %
Boil	Brewers Gold	4 g	80 min	7.6 %
Boil	Kent Goldings	4 g	80 min	5.5 %
Boil	połączone reszta	17 g	10 min	6 %
Boil	Magnum	5 g	80 min	13.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
T-58	Ale	Dry	11.5 g	fermentis