APAsz

- Gravity 13.8 BLG
- ABV ----
- IBU **43**
- SRM 6.1
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 40 min
- Evaporation rate 12 %/h
- Boil size 29.1 liter(s)

Mash information

- Mash efficiency 92 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.9 liter(s)
- Total mash volume 21.2 liter(s)

Steps

- Temp **63 C**, Time **40 min** Temp **72 C**, Time **20 min**
- Temp 76 C, Time 10 min

Mash step by step

- Heat up 15.9 liter(s) of strike water to 70.2C
- Add grains
- Keep mash 40 min at 63C
- Keep mash 20 min at 72C
- Keep mash 10 min at 76C
- Sparge using 18.5 liter(s) of 76C water or to achieve 29.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg <i>(84.9%)</i>	80 %	5
Grain	Cookie Viking Malt	0.5 kg <i>(9.4%)</i>	77 %	70
Grain	Słód pszeniczny Bestmalz	0.3 kg <i>(5.7%)</i>	82 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zeus	25 g	40 min	14 %
Boil	Summit	20 g	10 min	15.5 %
Whirlpool	Amarillo	20 g	20 min	9.5 %
Dry Hop	Amarillo	75 g	3 day(s)	9.5 %
Dry Hop	Summit	25 g	3 day(s)	15.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M66	Ale	Slant	100 ml	

Extras

Туре	Name	Amount	Use for	Time
Fining	Whirlfloc	5 g	Boil	10 min