APAcz

- Gravity 13.1 BLG
- ABV **5.3** %
- IBU **40**
- SRM 4.1
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 30 liter(s)
- Trub loss 2 %
- Size with trub loss 31.2 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 35.5 liter(s)

Mash information

- Mash efficiency 90 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 18 liter(s)
- Total mash volume 24 liter(s)

Steps

- Temp 67 C, Time 90 min
 Temp 77 C, Time 10 min

Mash step by step

- Heat up 18 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 90 min at 67C
- Keep mash 10 min at 77C
- Sparge using 23.5 liter(s) of 76C water or to achieve 35.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	pale ale	6 kg (100%)	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	lunga	10 g	90 min	11 %
Boil	lunga	32 g	45 min	11 %
Boil	Centennial	20 g	10 min	7.8 %
Boil	Centennial	20 g	0 min	7.8 %
Dry Hop	Cascade	50 g	3 day(s)	8.3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	20 g	Fermentis