Apacz

- Gravity 17.1 BLG
- ABV 7.3 %
- IBU **50**
- SRM 4.8
- Style American IPA

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 10 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 29 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 20 liter(s)
- Total mash volume 26.6 liter(s)

Steps

- Temp **64 C**, Time **50 min** Temp **72 C**, Time **10 min**
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 20 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 50 min at 64C
- Keep mash 10 min at 72C
- Keep mash 10 min at 78C
- Sparge using 15.7 liter(s) of 76C water or to achieve 29 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg <i>(75.2%)</i>	80 %	5
Grain	Strzegom Pszeniczny	1 kg <i>(15%)</i>	81 %	6
Grain	Weyermann - Carapils	0.5 kg <i>(7.5%)</i>	78 %	4
Grain	Weyermann - Acidulated Malt	0.15 kg <i>(2.3%)</i>	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sybilla	50 g	60 min	7 %
Boil	Simcoe	10 g	20 min	13.3 %
Boil	Citra	10 g	20 min	12.3 %
Boil	Centennial	25 g	10 min	9.7 %
Whirlpool	Centennial	25 g	5 min	9.7 %
Dry Hop	Simcoe	40 g	6 day(s)	13.3 %
Dry Hop	Citra	40 g	6 day(s)	12.3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM54	Ale	Slant	500 ml	fermentum mobile