Festiwalowe Pale Ale

- Gravity 12.4 BLG
- ABV 5 %
- IBU **26**
- SRM **3.8**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 10.5 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 12.7 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3.2 liter(s) / kg Mash size 7 liter(s)
- Total mash volume 9.2 liter(s)

Steps

- Temp 62 C, Time 40 min
 Temp 72 C, Time 20 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 7 liter(s) of strike water to 68.6C
- Add grains
- Keep mash 40 min at 62C
- Keep mash 20 min at 72C
- Keep mash 10 min at 78C
- Sparge using 7.9 liter(s) of 76C water or to achieve 12.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.2 kg <i>(100%)</i>	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	5 g	60 min	15.5 %
Boil	Columbus/Tomahawk/Zeus	5 g	15 min	15.5 %
Boil	Columbus/Tomahawk/Zeus	10 g	0 min	15.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Slant	50 ml	Fermentis