Christmas Ale 2

- Gravity 17.3 BLG
- ABV 7.4 %
- IBU 25
- SRM **29.6**
- Style Christmas/Winter Specialty Spiced Beer

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 29 liter(s)

Mash information

- Mash efficiency 84 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21 liter(s)
- Total mash volume 28 liter(s)

Steps

- Temp **68 C**, Time **50 min** Temp **72 C**, Time **10 min**
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 21 liter(s) of strike water to 76C
- Add grains
- Keep mash 50 min at 68C
- Keep mash 10 min at 72C
- Keep mash 10 min at 78C
- Sparge using 15 liter(s) of 76C water or to achieve 29 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	4 kg (57.1%)	85 %	7
Grain	Biscuit Malt	0.5 kg <i>(7.1%)</i>	79 %	45
Grain	Abbey Malt Weyermann	1 kg <i>(14.3%)</i>	75 %	45
Grain	Carafa II	0.5 kg <i>(7.1%)</i>	70 %	1100
Grain	Płatki pszeniczne	0.5 kg <i>(7.1%)</i>	85 %	3
Grain	Płatki owsiane	0.5 kg (7.1%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	20 g	60 min	13.9 %
Aroma (end of boil)	Amarillo	20 g	7 min	7.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Safale

Extras

Туре	Name	Amount	Use for	Time
Spice	skórka pomarańczowa	20 g	Boil	20 min
Spice	Przyprawa do grzańca	24 g	Boil	20 min
Spice	imbir	10 g	Boil	20 min
Spice	imbir	10 g	Secondary	3 day(s)