wit na święta

- Gravity 14.5 BLG
- ABV 6 %
- IBU **20**
- SRM 3.6

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.5 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 2.5 liter(s) / kg
- Mash size 12.5 liter(s)
- Total mash volume 17.5 liter(s)

Steps

- Temp 44 C, Time 20 min
 Temp 63 C, Time 40 min
 Temp 72 C, Time 20 min

Mash step by step

- Heat up 12.5 liter(s) of strike water to 48.8C
- Add grains
- Keep mash 20 min at 44C
- Keep mash 40 min at 63C
- Keep mash 20 min at 72C
- Sparge using 19 liter(s) of 76C water or to achieve 26.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pszeniczny	3 kg <i>(50%)</i>	75 %	4
Grain	Pilzneński	2 kg <i>(33.3%)</i>	75 %	4
Sugar	cukier	1 kg (16.7%)	%	

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lomik	60 g	45 min	3.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11 g	Safale

Extras

Туре	Name	Amount	Use for	Time
Flavor	rodzynki	400 g	Boil	20 min
Flavor	skórka pomarańczowa	180 g	Boil	20 min
Spice	kolendra	10 g	Boil	20 min

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Spice	l goździki	13 4	Boil	l 20 min
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