

ALE

- Gravity **12.5 BLG**
- ABV ---
- IBU **30**
- SRM **5.7**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

Steps

- Temp **65 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **14 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **5 min** at **78C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3 kg (75%)	--- %	6
Grain	Strzegom pszeniczny	0.5 kg (12.5%)	--- %	6
Grain	Strzegom Monachijski typ I	0.5 kg (12.5%)	--- %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	15 g	60 min	13 %
Boil	Kent Goldings	20 g	10 min	5.5 %
Boil	Kent Goldings	30 g	1 min	5.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	11.5 g	Danstar