

Alzen Cztery Słody

- Gravity **10.2 BLG**
- ABV ---
- IBU **23**
- SRM **3.5**
- Style **Specialty Beer**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9 liter(s)**
- Total mash volume **12 liter(s)**

Steps

- Temp **62 C**, Time **35 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **9 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **35 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **13 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	1.7 kg (56.7%)	80 %	4
Grain	Strzegom Pale Ale	0.5 kg (16.7%)	79 %	6
Grain	Żytni	0.4 kg (13.3%)	85 %	8
Grain	Pszeniczny	0.4 kg (13.3%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	15 g	60 min	7 %
Boil	Perle	5 g	30 min	7 %
Boil	Perle	5 g	10 min	7 %

Yeasts

Name	Type	Form	Amount	Laboratory
Fermentis S-33	Ale	Dry	5.5 g	Fermentis