

Brown Wheat

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **30**
- SRM **14.8**
- Style **American Brown 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 **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.8 liter(s)**
- Total mash volume **25.5 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up **19.8 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **0 min** at **78C**
- Sparge using **11.2 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	2.7 kg (47.7%)	79 %	6
Grain	Strzegom Pszeniczny	1.38 kg (24.4%)	81 %	6
Grain	Karmelowy Pszeniczny Strzegom	0.5 kg (8.8%)	79 %	130
Grain	Weyermann - Caraamber	1 kg (17.7%)	75 %	70
Grain	Strzegom Karmel 600	0.08 kg (1.4%)	68 %	500

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	30 g	10 min	15.5 %
Boil	Warrior	40 g	5 min	15.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis