

# Letkie Indie

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **53**
- SRM **4.2**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.25 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **25.5 liter(s)**

## Steps

- Temp **45 C**, Time **15 min**
- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **15 min**

## Mash step by step

- Heat up **19.5 liter(s)** of strike water to **48.8C**
- Add grains
- Keep mash **15 min** at **45C**
- Keep mash **45 min** at **62C**
- Keep mash **15 min** at **72C**
- Sparge using **18.2 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	4 kg (66.7%)	79 %	6
Grain	Strzegom Wiedeński	1 kg (16.7%)	79 %	10
Grain	Pszenicz	1 kg (16.7%)	--- %	---

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	30 g	30 min	15.5 %
Boil	Magnum	30 g	20 min	13.5 %
Dry Hop	Pacifica (NZ)	60 g	6 day(s)	4.8 %
Dry Hop	Cascade	30 g	4 day(s)	6 %
Dry Hop	Citra	30 g	4 day(s)	12 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-05	Ale	Dry	10 g	Safale

## Extras

Type	Name	Amount	Use for	Time
Water Agent	Gips	5 g	Mash	75 min
Fining	Mech Irlandzki	6 g	Boil	15 min